OMAHA PUBLIC POWER DISTRICT FORT CALHOUN STATION

SEISMIC EVALUATION REPORT

Prepared by

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EXECUTIVE SUMMARY

In response to NRC Generic Letter 87-02 on Unresolved Safety Issue (USI) A-46, a walkdown and screening evaluation has been performed for Omaha Public Power District's (OPPD) Fort Calhoun Station. The scope of these evaluations included mechanical and electrical equipment, tanks and heat exchangers, and cable and conduit raceways. The guidance provided in the Generic Implementation Procedure (GIP) was used as the technical basis for these evaluations.

The Fort Calhoun plant was designed for a 0.17g (SSE) peak ground acceleration, using the Housner ground response spectra, and conservatively developed floor response spectra. In October of 1993, the NRC approved the refined floor response spectra developed as part of the Alternate Seismic Criteria and Methodologies (ASCM) for use as "conservative design" In-Structure Response Spectra (ISRS) in this A-46 project. However, for actual use in this project, the refined floor spectra developed under the ASCM were conservatively scaled and broadened; these were used as "median-centered" ISRS, except for some relay evaluations, where they were used as "conservative design." Use of the ISRS as "median-centered" introduces some conservatism in the equipment evaluations performed under this project. The plant grade elevation of 1004 feet was taken as the "effective grade."

A total of 368 pieces of equipment and 36 tanks and heat exchangers were evaluated in addition to the cable and conduit raceways. Out of these, 53 pieces of equipment and 24 tanks and heat exchangers were identified as outliers. Similarly, the raceways review resulted in five outliers. Most of these outliers are minor in nature, requiring additional detailed engineering analysis or simple repairs or replacements to address interaction, anchorage, or raceway support concerns.

The items requiring further engineering evaluation included fourteen tanks which did not meet the bounding requirements of GIP, and therefore required more detailed analyses to determine their adequacy. Five valves and four other pieces of equipment also required additional evaluations for various reasons, as discussed in Section 9 of the report.

One generic condition was identified as an outlier overhead lights supported by open hooks pose a potential interaction concern. This supporting system is being suitably modified as discussed in section 9.

1.0 INTRODUCTION

In support of the Unresolved Safety Issue (USI) A-46 seismic evaluation project for Omaha Public Power District's (OPPD) Fort Calhoun Station (FCS), this report describes the work performed for the seismic adequacy evaluation of mechanical and electrical equipment, tanks and heat exchangers, and cable and conduit raceways. The results of relay evaluation are described in the Relay Evaluation Report (Reference 1). Basic technical requirements for this effort were obtained from the Generic Implementation Procedure (GIP) (Reference 2) and NRC Supplemental Safety Evaluation, Report No. 2 (Reference 3). No significant or programmatic deviation was taken from the GIP.

Section 2 of this report describes the FCS seismic design basis, the generation of In-Structure Response Spectra (ISRS) for use in this project, and the plant foundation conditions. Sections 3 through 8 include the results of the screening verification and walkdown of electrical and mechanical equipment, the tanks and heat exchangers evaluation, and the electrical raceways evaluation. Section 9 describes the outliers identified as a result of these evaluations.

2.0 PLANT SEISMIC DESIGN BASIS, DESCRIPTION OF IN-STRUCTURE RESPONSE SPECTRA, AND PLANT FOUNDATION

2.1 Plant Seismic Design Basis

The plant seismic design basis is described in Appendix F of the FCS Updated Safety Analysis Report (USAR) (Reference 4) and the Design Basis Document No. 51, Seismic Criteria (Reference 5). Following is a brief summary of the criteria described in these documents.

All Class I components, systems, and structures, as defined in the USAR Appendix F, Section F.1, were designed for two levels of earthquake as described below.

2.1.1 Design Earthquake (OBE)

All Class I components, systems, and structures were designed so that the seismic stresses resulting from the response to a ground acceleration of 0.08g acting in the horizontal direction and two-thirds of 0.08g acting in the vertical direction simultaneously, in combination with the primary steady state stresses, are maintained within the allowable working stress limits accepted as good practice and, where applicable, set forth in the appropriate design standards; e.g., the ASME Boiler and Pressure Vessel Code, USAS B31.1 (1967) and B31.7 (1968) Codes for Pressure Piping, ACI 318 Building Code Requirements for Reinforced Concrete, and AISC Specifications for the Design and Erection of Structural Steel for Buildings.

2.1.2 Maximum Hypothetical Earthquake (SSE)

Class I structures, systems, and components were designed such that seismic stresses resulting from the response to simultaneous ground acceleration of 0.17g acting in the horizontal direction and two-thirds of 0.17g acting in the vertical direction, in combination with the primary steady state stresses, are limited so that the function of a structure, system, or component is not impaired in a manner that a safe and orderly shutdown of the plant is prevented. The horizontal ground response spectra for this earthquake are shown in Figure 1.

2.1.3 Damping Factors

The following damping factors were used in the design of Class I components and structures.

	Percent Damping				
Component or Structure	Design Earthquake	Maximum Hypothetical Earthquake			
Containment Structure	2.0	2.0			
Concrete Support Structures for Reactor Vessel and Steam Generators	2.0	2.0			
Steel Assemblies: Bolted or Riveted Welded	2.0 1.0	2.0 1.0			
Vital Piping Systems	0.5	0.5			
Rigid Vault Type Concrete Structures	2.0	5.0			
Framed Concrete Structures	5.0	7.0			

2.1.4 Floor Response Spectra

Floor response spectra were developed using the soil-structure model shown in Figure 2. A modal analysis time-history method was used with the normalized E1 Centro ground motion as input. For this purpose, the recorded E1 Centro N-S horizontal time-history was scaled to .08g and .17g, which correspond to the Fort Calhoun OBE and SSE ground accelerations, respectively. The analytical model used for the construction of the horizontal floor response spectra (as shown in Figure 2) consists of five masses: mass #1 representing the concrete dome; masses #2 and #3 simulating the upper and lower portion of the containment shell, respectively; mass #4 representing the auxiliary building; and mass #5 representing the containment internal structure and mat. Each mass was assumed to have two translational degrees of freedom in the two principal directions. The two additional degrees of freedom are due to rotary inertias of the entire structure about the two horizontal principal axes. All six structure modes of vibration were used in the development of the horizontal response spectra. Equipment damping was taken as 0.5% of critical. The resulting SSE response spectra at Mass Points 2, 4, and 5 are shown in Figures 3, 4, and 5, respectively.

2.2 Generation of In-Structure Response Spectra for Use in A-46 Project

In July 1992, OPPD submitted additional information to the NRC regarding the Alternate Seismic Criteria and Methodologies (ASCM), which included "Soil Variation Analyses and Generation of In-Structure Response Spectra" (Reference 6). In a letter dated October 18, 1993 (Reference 7), the NRC approved use of these refined In-Structure Response Spectra (ISRS) as "conservative design" ISRS for all areas in the plant for resolving Unresolved Safety Issue A-46. Typical ISRS included in the ASCM are shown in Figures 6 through 14 for the three orthogonal directions for the various structures.

Since the A-46 project is being concurrently performed with the Individual Plant Examination for External Events (IPEEE), a conservatively scaled version of the ISRS generated for the ASCM has been used on this A-46 project. The generation of these scaled ISRS is discussed in the following paragraphs.

The peak-broadened ISRS generated as part of ASCM (Reference 6) were scaled to IPEEE motion (0.30g NUREG CR/0098 spectral shape). For this scaling, the dominant frequency of the particular building model (Auxiliary Building/Containment Building Model, or Intake Structure Model) and soil case (upper bound or lower bound) was determined first. The scale factor was then calculated based on the ratio of the 7% damped 0.3g NUREG CR/0098 median peak spectral acceleration for soil site (0.57g) to the average ASCM response input time-history spectral acceleration, at 7% damping, within ±10% of the predominant building model frequency determined above.

For example, for the N-S Auxiliary/Containment Building Model with upper bound soil properties, based on Figure 15 (same as Figure 4.3 of Reference 6), the predominant frequency is within the 2.4 to 2.9 Hz range. Over this frequency range, from Figure 16 (same as Figure 2.4 of Reference 6), the appropriate amplitude scale factor for the upper bound soil case is calculated to be (0.57/0.28) = 2.04. Similarly, for the lower bound soil case, the appropriate amplitude scale factor (computed over the 1.7 to 2.1 Hz frequency band) is (0.57/0.24) = 2.38.

The scale factors calculated, as above, for the upper bound and lower bound soil cases were conservatively enveloped. This enveloped scale factor was used to multiply the 5% damped ISRS generated as part of the ASCM to obtain the scaled, 5% damped ISRS for use in the IPEEE project. Additionally, to conservatively account for greater soil properties variation, these scaled spectra were broadened an additional $\pm 10\%$ on the frequency scale. Finally, for the A-46 project, these scaled and broadened ISRS were scaled down by the ratio of the SSE peak ground acceleration (0.17g) to the IPEEE peak ground acceleration (0.30g).

The results of the above scaling procedure are summarized in Table 1 in terms of factors used to scale the ASCM spectra to obtain the ISRS for use in the A-46 project. These scaled ISRS were conservatively used in this project as "median-centered" ISRS, except for calculating seismic demands for relays. For relay calculations the scaled ISRS were treated as "conservative design," as explained in the A-46 Relay Evaluation Report (Reference 1). Typical scaled ISRS used in this A-46 project are shown in Figures 17 through 25 for the same locations as in Figures 6 through 14

As can be seen from Table 1, the scaled ISRS provide an additional margin over the ISRS obtained from the ASCM which have been approved by the NRC as "conservative design" ISRS (Reference 7). Additionally, use of these scaled ISRS as "median centered" provides an additional 25% margin for anchorage evaluations (where ISRS, rather than 1.5 X ground spectrum, has been used).

2.3 Plant Foundation Conditions and Plant Grade Elevation

FCS is located on the west bank of the Missouri River, approximately 19.4 miles north of Omaha, Nebraska. The plant site is underlaid by 65 to 75 feet of unconsolidated alluvial and glacial deposits, largely loose to moderately compact silty sand and denser sands and gravels resting on sedimentary bedrock. The plant buildings are supported by a system of pipe piles which were driven to bedrock. The soil around the piles under Category I structures was compacted by vibrafloatation to prevent liquefaction under SSE loading.

The foundation mat for the containment and auxiliary buildings is an integral unit supported on piles. Figure 26 shows a section through these buildings.

The Intake Structure and Turbine Buildings are on separate foundations; these foundations are also supported on piles.

The plant grade elevation is 1004 feet. The structural foundation was backfilled with controlled compacted backfill. The "effective grade" is therefore defined as Elevation 1004 feet.

3.0 RESULTS OF SCREENING VERIFICATION AND WALKDOWN OF EQUIPMENT

Each Seismic Review Team (SRT) consisted of at least two Seismic Capability Engineers (SCEs), with one having a professional engineer's license. Each of the SCEs met the requirements specified in Section 2.1.2 of the GIP. SCEs from OPPD participated in the walkdown evaluations. A total of seven SCEs performed the walkdown. Their resume's are included in Appendix B. The SCEs were:

SCEs	Organization
Mr. J. K. Mathew	OPPD
Mr. R. E. Lewis	OPPD
Dr. R. P. Kennedy	RPK Structural Mechanics
Dr. A. Al-Dabbagh	Sargent & Lundy
Mr. S. Anagnostis	Stevenson & Associates
Mr. W. Djordjevic	Stevenson & Associates
Mr.C.M.Abou-Jaoude	VECTRA Technologies

The Safe Shutdown Equipment List (SSEL) for the plant walkdown was generated under Reference 9. This referenced report included the SSEL and the Composite SSEL and ARL Box list. This composite box list included 430 unique boxes. After the ARL was reviewed to identify the essential relays (Reference 1), some ARL boxes were deleted, since they were not part of SSEL and did not contain essential relays. Thus, 404 pieces of remaining equipment, including 36 tanks and heat exchangers, were walked down by the Seismic Review Teams (SRTs) and evaluated for USI A-46 purposes.

Walkdowns were performed in accordance with Section 4 of the GIP. GIPPER software (Reference 10) was used to track and record the data, and to generate the Screening Evaluation Work Sheets (SEWS). The SEWS for all affected pieces of equipment, including tanks and heat exchangers, are included as Appendix F. The SEWS include a comparison of the seismic capacity and demand in the form of response spectra plots, an estimate of the lowest natural frequency of the equipment (where applicable), verification of applicable caveats, walkdown notes, photographs and anchorage sketches (where they aid the evaluation), and anchorage evaluations. Most of the anchorage evaluations were performed using ANCHOR software (Reference 8). Some enveloping anchorage evaluations were also performed using manual calculations. All such calculations are also attached to the appropriate SEWS.

A summary of the screening verification and walkdown results for 368 pieces of equipment is documented in the Seismic Verification Data Sheets (SVDS), included in Appendix C. The SVDS have been signed by the respective SCEs.

There are five pieces of equipment, listed below, which were classified as Class "0."

1D No Description

NE-001 and NE-004 RC-HTRS-10, 11, and 12 Wide Range Logarithmic Nuclear Detectors Pressurizer Heaters Welded to the Pressurizer

Since these five pieces of equipment are Class 0, in accordance with the GIP requirements, they were identified as outliers. However, the SRTs considered these outliers resolved as explained below.

The two nuclear detectors were accepted by the SRTs based on existing IEEE 344-1975 seismic qualifications. The three pressurizer heaters were accepted based on their obvious seismic ruggedness, and also by using rule of the box. The heaters are welded to the pressurizer, which is outside the scope of USI A-46, but are qualified by the NSSS vendor for seismic adequacy as part of plant design basis.

During the walkdown, SCEs accepted some of the equipment based on meeting the intent of the caveats, rather than the specific wording of the caveats. These items are discussed in Section 6.0. Some pieces of the equipment were found to be covered by insulation or were out for servicing during the walkdown. These items were reviewed by drawing review, and are discussed in Section 7.0. Also, some items were accepted based on existing calculations/documentation; these items are discussed in Section 8.0. Finally, the outliers are discussed in Section 9.0.

4.0 RESULTS OF TANKS AND HEAT EXCHANGERS EVALUATION

A total of 36 tanks and heat exchangers are on the SSEL. These are listed in Table 2. These tanks and heat exchangers were evaluated in accordance with the guidance given in Section 7 of the GIP. The results of tanks and heat exchangers walkdowns and evaluations are documented on the SEWS, signed by the SRTs. These SEWS are maintained as Appendix F at Fort Calhoun Station.

Of the 36 tanks and heat exchangers, 12 were found to be acceptable by the SRTs based on the guidelines provided in the GIP. The remaining tanks and heat exchangers were found to be outliers based on not meeting the bounding parameters given in GIP Section 7, as discussed in Section 9 of this report. Table 2 also shows which tanks/heat exchangers were found acceptable and which were identified as outliers.

5.0 RESULTS OF CABLE AND CONDUIT RACEWAY WALKDOWN AND EVALUATION

A cable and conduit raceway review was conducted as described in Section 8 of the GIP. The review consisted of the following steps:

- · Defining the scope
- · Walkdown of the raceways
- · Limited analytical review
- · Documentation of the review

The first three steps are described in the subsections below. The documentation pertaining to each step is described in the associated subsection.

5.1 Scope of Review

All cable and conduit raceways in the plant which could carry wiring for the safe shutdown equipment were included in the review. This included all raceways in the Containment and the Auxiliary Building, the raceways in the Intake Structure that service the Raw Water pumps and associated equipment, and the raceways that carry safety-related cables from the Auxiliary Building to the Intake Structure.

5.2 Walkdown of Cable and Conduit Raceways

Walkdowns were performed as described in Section 8.2 of the GIP. The scope of review was divided into 26 areas - 1 for the Intake Structure, 1 for the raceways between the Auxiliary Building and the Intake Structure, 18 for the Auxiliary Building, and 6 for the Containment.

A Plant Area Summary Sheet (PASS) was completed for each area. The PASS forms are included in Appendix E and maintained at Fort Calhoun Station.

An Outlier Seismic Verification Sheet (OSVS) was completed for those areas in which a condition was found that did not meet the Inclusion Rules (Section 8.2.2 of the GIP) or the Other Seismic Performance Concerns (Section 8.2.3 of the GIP), or that resulted in Seismic Interaction concerns (Section 8.2.5 of the GIP). OSVS forms are included in Appendix D. The outliers are discussed in more detail in Section 9.

As specified in Section 8.2.4 of the GIP, during the walkdown, 15 "representative, worst-case" raceway supports were selected for Limited Analytical Review (LAR). The LARs are described in more detail in the Limited Analytical Review, Subsection 5.3.

Table 3 lists the PASS form ID for each area, a description of the area, any conditions found in the area that resulted in an outlier, and the LAR ID for any hangers in that area selected for the Limited Analytical Review

5.3 Limited Analytical Reviews

Fifteen hangers were selected for Limited Analytical Review (LAR). The field sketch for an LAR is included with the associated PASS form in Appendix E and maintained at Fort Calhoun Station. Table 3 cross-references the PASS forms and the LARs.

Each LAR was analyzed in accordance with the procedure described in Section 8.3 of the GIP. The results of the analyses are summarized in Table 4.

Section 8.3 of the GIP specifies that an LAR consists of one or more of the following four "load cases": dead load, 3 times dead load, a static lateral load that is a function of the floor response spectra, and a rod fatigue check. Not all load cases are checked for each hanger subjected to an LAR - the load cases that are required to be checked for a particular hanger are a function of the geometry and construction of the hanger. Table 4 lists the highest interaction values calculated in the analysis for each hanger for both the hanger's framing members/connections and the hanger's anchorage. An interaction value greater than 1.0 indicates that the allowable for that load case was exceeded.

Only LAR010 resulted in interaction values greater than 1.0, i.e., 1.36 for a framing member in the dead load check, and 1.07 for the hanger anchorage in the 3 times dead load check. The hanger in this LAR is an eight tier rod trapeze hanger that represents the worst case configuration in the cable spreading room - worst case spacing, cable fill, and hanger geometry were used. In addition, the substantial welded steel lateral bracing that is installed every 10' - 20' was ignored (this bracing was installed on all rod-hung systems throughout the plant). Given the conservatism in defining the hanger's geometry, the Seismic Review Team (SRT) judged that the relatively small exceedances in the analysis did not warrant making this hanger an outlier.

LAR007 was selected by the SRT due to a "short-rod" fatigue concern. When the analysis for this LAR was started, it was realized the anchorage detail for this hanger was such that rod fatigue would not occur, and the LAR was passed "by inspection." This hanger anchorage detail, which is a standard detail at FCS, consists of threading the rod into a spring nut inside an embedded strut. In most plants, this detail includes an additional nut and washer on the outside of the strut to clamp the connection in place. The outside nut and washer is not used at FCS. As a result, under significant lateral load the rod can rotate and even slide, thereby preventing the development of significant bending stresses. This detail raised the concern that a rod could rotate or uplift enough to dislodge the spring nut, allow it to rotate 90 degrees, and drop out of the embedded strut. Upon closer inspection, the SRT concluded that this was not possible for three reasons. First, the nut is designed so that, when inside the strut, it can only rotate in one direction - the direction that causes it to tighten down on the rod. Second, even if the nut did manage to rotate 90 degrees, it cannot drop out of the strut because even in the narrow direction it is wider than the strut opening. Finally, the rod is usually threaded well up into the strut (the strut is 7/8" deep), thus preventing significant uplift.

6.0 DESCRIPTION OF CASES WHERE CAVEATS ARE MET BY INTENT

There were some pieces of equipment which SRTs accepted during the walkdown based on their meeting the intent of the applicable caveats, rather than the specific wording of the caveats. These items are listed in Table 5, with applicable caveats and the bases for SRT acceptance.

7.0 ITEMS NOT SEEN IN WALKDOWN AND ACCEPTED BASED ON DRAWING REVIEW

There were some items which were covered by insulation, or were out for servicing, during the walkdown. These items were accepted by the SRTs based on reviews of controlled drawings. A list of these items is provided in Table 6.

8.0 ITEMS ACCEPTED BASED ON EXISTING DOCUMENTATION

There were some equipment and masonry wall (for interaction purposes) qualifications which the SRTs accepted based on existing OPPD calculations or IEEE 344-1975 seismic qualification testing. These calculations or test documents were reviewed for their applicability to the items under review, and the conclusions of the calculations were used to accept these items. However, these documents, generated as part of plant design basis calculations and reviewed in accordance with OPPD QA Program, were not reviewed by the SRTs in detail. Table 7 provides a list of such items and a brief reference to the documentation which formed the basis of their acceptance.

9.0 DESCRIPTION OF OUTLIERS

9.1 Mechanical and Electrical Equipment Outliers

Out of 368 mechanical and electrical equipment walked-down and evaluated, 55 were identified as outliers. In addition, two generic conditions were identified as outliers. A summary of these outliers, along with the recommended resolutions, is included in Table 8. The Outlier Seismic Verification Sheets (OSVS) are included in Appendix D. Table 8 also provides the current status of the resolution of the identified outliers.

Out of the 55 equipment outliers, 9 items involved some kind of interaction concerns as shown in Table 8. One of these 9 items (valve HCV-2861) is inside the Service Building, which was not designed for FCS design basis earthquakes. This is the only USI A-46 component in the Service Building. A detailed evaluation of this interaction concern was performed and a modification as identified in Table 8 is planned.

Eight of the 55 outliers involve some type of anchorage concern, including missing or inadequate anchorage, loose anchors, or unverified anchors due to their being covered by insulation. Two fans, VA-3A and 3B, are on vibration isolators, therefore, they are identified as outliers. There are 4 air-operated valves where the operator cantilever length is beyond the earthquake experience database of the GIP, and the stresses computed by 3g static analysis are greater than allowables. These valves were further evaluated as part of outlier resolutions using actual acceleration from piping analysis. Table 8 provides the status of these outliers' resolutions.

Four items, VA-3A and 3B fans and VA-1A and 1B coolers, are within large air handling units VA-15A and 15B, where seismic demand exceeds the capacity. A more detailed evaluation of these air handling unit and fans was performed as part of outlier resolutions documented in Table 8.

The rest of the equipment outliers had to do with the caveat related to the bolting of the adjacent electrical cabinets containing essential relays. Plans for bolting these cabinets to the adjacent cabinets are documented in Table 8.

The 2 generic outlier conditions involved overhead light fixtures which are supported by open hooks, and embedment details for electrical cabinet supports which do not use headed studs. Per NRC's SSER No. 2, any embedments not using headed studs are outside the scope of GIP, therefore, they should be identified as outliers.

For the open hooks supporting overhead lights, it was recommended that the hooks be closed or another appropriate modification be made to the supporting mechanism for the overhead lights so that they do not become interaction hazards during an earthquake. The status of this modification is shown in Table 8.

For the embedment details without a headed stud, their adequacy was evaluated by calculations. The SRTs consider these outliers resolved based on these calculations.

There were 5 items on the SSEL, logarithmic detectors NE-001 and 004 and pressurizer heaters RC-HTRS-10, 11, and 12, which are classified as Class O; per the GIP these are identified as outliers. However, based on existing IEEE-344 qualification, the SRTs accepted the two logarithmic detectors. Also, based on obvious seismic ruggedness of the pressurizer heaters, which are welded to the bottom of the pressurizer, the SRTs accepted the seismic adequacy of these heaters, therefore, these five outlier items were considered resolved by the SRTs.

9.2 Tanks and Heat Exchangers Outliers

Out of 36 tanks and heat exchangers, 24 were identified as outliers. A summary of these outlier tanks and heat exchangers and their resolutions is included in Table 8, the OSVS are included in Appendix D.

Two of the 24 outliers had to do with long sight glasses mounted on the diesel day tanks. Based on the SRT's recommendation to resolve the concern regarding the breakage of these sight glass outliers, a plan to replace them with a plastic break-resistant material is documented in Table 8.

Eight horizontal tanks (starting air receivers for diesel generators) were not welded to the saddles, nor did the tank straps appear to be pretensioned. Therefore, the SRTs had a concern regarding the potential sliding of these tanks under longitudinal earthquake motion. The recommended resolution for these outliers is to either spot weld each tank to its support or the tank strap, or to tighten the strap down onto the tank sufficiently to develop a normal force at least five times the product of the tank weight and the maximum 4% damped spectral acceleration. The status of this outlier resolution is shown on Table 8.

Finally, 3 tanks (AC-1C, AC-1D and CH-7) out of the remaining 14 outliers have an allowable anchorage acceleration capacity, based on GIP guidelines, which is less than the GIP required Spectral Peak Acceleration (SPA). The remaining 14 outlier tanks do not fall within the bounding range of GIP parameters. These 14 tanks required additional detailed analysis to resolve their seismic adequacy as documented in Table 8.

9.3 Cable and Conduit Raceway Outliers

The Cable and Conduit Raceway Review resulted in 8 outliers. The OSVS are contained in Appendix D. The outliers are summarized below.

- 1. The OSVS for areas CONTBAYB, INTAKE, ROOM026, ROOMS0989 will require minor maintenance type repairs such as replacing or tightening conduit clamps or hanger rods. For discriptions of these areas, see the PASS forms in Appendix E maintained at Fort Calhoun Station.
- The OSVS for area CONT1045 will require that some conduit be re-supported, since some conduits are inadequately beam-clamped to ductwork and/or are supported using vertically oriented beam clamps. Also, some conduits have overspan of about 15'-20'.
- The OSVS for area CONT1013 will require that some rusted supports be cleaned and inspected to determine if the corrosion is significant.
- 4. The OSVS for area ROOM904 will require that all light fixtures hung on open hooks be modified. This is the same condition addressed under a generic outlier in Section 9.1 above.
- The OSVS for area ROOMS1025 will require that a duct support be repaired, since a large duct in Room 69 has broken or damaged supports and could interact with conduit or tray below

10.0 PEER REVIEW

A peer review of the work covered by this report has been performed by Dr. J. D. Stevenson. Dr. Stevenson performed a peer review of the two separate plant walkdowns performed by the SRTs to assess the adequacy of the walkdowns and appropriateness of judgements made by the SRTs. Dr. Stevenson also reviewed the related documentation developed on a sampling basis and reviewed this Seismic Evaluation Report.

REFERENCES

- Fort Calhoun Station Relay Evaluation Report, prepared by Omaha Public Power District, Science Applications International Corporation and VECTRA Technologies.
- Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Plant Equipment, Revision 2, Corrected February 1992.
- NRC letter dated May 22, 1992 to SQUG Members, "Supplement No. 1 to Generic Letter 87-02 transmitting Supplemental Safety Evaluation Report No. 2 (SSER No. 2) on SQUG Generic Implementation Procedure, Revision 2, as Corrected on February 14, 1992 (GIP-2)."
- 4. Updated Safety Evaluation Report, Fort Calhoun Station.
- Omaha Public Power District, Fort Calhoun Station, Design Basis Document No. PLDBD-CS-51, Revision 2, December 1991, "Seismic Criteria."
- OPPD letter No. LIC-92-016R to NRC, dated July 31, 1992, "Resolution of NRC Open Items on Alternate Seismic Criteria and Methodology (ASCM)," (TAC No. M71408).
- NRC letter to OPPD, dated October 18, 1993, "Evaluation of Clarification of 120 Day Response to Supplement No. 1 to Generic Letter 87-02 for Fort Calhoun Station," (TAC No. M69447).
- Stevenson & Associates Report, "ANCHOR Users' Guide, 3.0, Revision 0," August 16, 1990.
- Fort Calhoun Station USI A-46 Safe Shutdown Equipment List (SSEL) Report prepared by Omaha Public Power District and VECTRA Technologies.
- Stevenson & Associates, the GIPPER User's Manual, April 1993.

Table 1
Scale Factors for Scaling ASCM Spectra
to Obtain A-46 Spectra

Building	Direction	Factor
Auxiliary/Containment/Internal Structures	NS	1.36
	EW	1.20
Table Marie and the second second	Vert	1.05
ntake Structure	NS	1.12
	EW	1.16
	Vert.	1.81

Table 2
List of Tanks and Seat Exchangers Evaluated

SERIAL NO.	ID	SYSTEM	DESCRIPTION	ROOM	ELEVATION	ACCEPTED/ OUTLIER	RECOMMENDED RESOLUTION	RESOLUTION STATUS/SCHEDULE
1	AC-IA	CCW	COMPONENT COOLING HEAT EXCHANGER	AB004	994	OUTLIER	DETAILED ANALYSIS	RESOLVED
2	AC-1B	CCW	COMPONENT COOLING HEAT EXCHANGER	AB004	1003	OUTLIER	DETAILED - ANALYSIS	RESOLVED
3	AC-1C	CCW	COMPONENT COOLING HEAT EXCHANGER	AB018	994	OUTLIER	DETAILED ANALYSIS	RESOLVED
4	AC-1D	CCW	COMPONENT COOLING HEAT EXCHANGER	AB018	996	OUTLIER	DETAILED ANALYSIS	RESOLVED
5	AC-2	CCW	COMPONENT COOLING WATER, SURGE TANK, AC-2	AB069	1030	OUTLIER	MODIFICATION MR-FC-94-017	8/96
6	AC-4A	CS	SHUTDOWN COOLING HEAT EXCHANGER	AB014	994	OUTLIER	DETAILED ANALYSIS	RESOLVED
7	AC-4B	CS	SHUTDOWN COOLING HEAT EXCHANGER	AB015	994	OUTLIER	DETAILED ANALYSIS	RESOLVED
8	AC-8	CCW		AB005	995	OUTLIER	DETAILED ANALYSIS	RESOLVED
9	CH-11A	cvcs	BAST	AB026	1010	OUTLIER	DETAILED ANALYSIS	RESOLVED
10	СН-11В	cvcs	BAST	AB026	1010	OUTLIER	DETAILED ANALYSIS	RESOLVED
- 11	CH-22A	cvcs	CHARGING PUMP OUTLET ACCUMULATOR	AB006	993	ACCEPTED		
12	CH-22B	CVCS	CHARGING PUMP OUTLET ACCUMULATOR	AB006	993	ACCEPTED		Killen 1851.
13	CH-22C	cvcs	CHARGING PUMP OUTLET ACCUMULATOR	AB006	993	ACCEPTED		
14	CH-26A	cvcs	CHARGING PUMP INLET ACCUMULATOR	AB006	993	ACCEPTED	ENGLIS	138.1716

Table 2

List of Tanks and Heat Exchangers Evaluated

SERIAL NO.	ID	SYSTEM	DESCRIPTION	ROOM	ELEVATION	ACCEPTED/ OUTLIER	RECOMMENDED RESOLUTION	RESOLUTION STATUS/SCHEDULE
15	CH-26B	CVCS	CHARGING PUMP INLET ACCUMULATOR	AB006	993	ACCEPTED		
16	CH-26C	cvcs	CHARGING PUMP INLET ACCUMULATOR	AB006	993	ACCEPTED		
17	CH-6	cvcs	REGENERATIVE HEAT EXCHANGER	CONT	994	OUTLIER	DETAILED ANALYSIS	RESOLVED
18	CH-7	CVCS		AB012	992	OUTLIER	DETAILED ANALYSIS	RESOLVED
19	FO-1	EPS	DIESEL FUEL OIL TANK	OTDR	995	ACCEPTED		
20	FO-2-1	EPS	DAY TANK	AB063	1017	OUTLIER	ECN ECN 94-084	6/96
21	FO-2-2	EPS	DAY TANK	AB064	1017	OUTLIER	ECN ECN 94-084	6/96
22	FW-19	AFWS	EMERGENCY FEEDWATER STORAGE TANK	AB081	1045	OUTLIER	DETAILED ANALYSIS	RESOLVED
23	LO-56	LO	FW-10 LUBE OIL COOLER COOLING SUPPLIED BY AUX	AB019	990	ACCEPTED		
24	SA-3A-1	EPS	DG-1 STARTING AIR RECEIVER	AB063	1025	OUTLIER	MODIFICATION MR-FC-94-017	8/96
25	SA-3A-2	EPS	DG-2 STARTING AIR RECEIVER	AB064	1027	OUTLIER	MODIFICATION MR-FC-94-017	8/96
26	SA-3B-1	EPS	DG-1 STARTING AIR RECEIVER	AB063	1029	OUTLIER	MODIFICATION MR-FC-94-017	8/96
27	SA-3B-2	EPS	DG-2 STARTING AIR RECEIVER	AB064	1032	OUTLIER	MODIFICATION MR-FC-94-017	8/96

Table 2
List of Tanks and Heat Exchangers Evaluated

SERIAL NO.	ID	SYSTEM	DESCRIPTION	ROOM	ELEVATION	ACCEPTED/ OUTLIER	RECOMMENDED RESOLUTION	RESOLUTION STATUS/SCHEDULE
15	CH-26B	cvcs	CHARGING PUMP INLET ACCUMULATOR	AB006	993	ACCEPTED		
16	CH-26C	CVCS	CHARGING PUMP INLET ACCUMULATOR	AB006	993	ACCEPTED		
17	CH-6	cvcs	REGENERATIVE HEAT EXCHANGER	CONT	994	OUTLIER	DETAILED ANALYSIS	RESOLVED.
18	CH-7	CVCS		AB012	992	OUTLER	DETAILED ANALYSIS	RESOLVED
19	FO-1	EPS	DIESEL FUEL OIL TANK	OTDR	995	ACCEPTED		
20	FO-2-1	EPS	DAY TANK	AB063	1017	OUTLIER	ECN ECN 94-084	6/96
21	FO-2-2	EPS	DAYTANK	AB064	1017	OUTLER	ECN ECN 94-084	6/96
22	FW-19	AFWS	EMERGENCY FEEDWATER STORAGE TANK	AB081	1045	OUTLIER	DETAILED ANALYSIS	RESOLVED
23	LO-56	LO	FW-10 LUBE OIL COOLER COOLING SUPPLIED BY AUX	AB019	990	ACCEPTED		
24	SA-3A-1	EPS	DG-1 STARTING AIR RECEIVER	AB063	1025	OUTLIER	MODIFICATION MR-FC-94-017	8/96
25	SA-3A-2	EPS	DG-2 STARTING AIR RECEIVER	AB064	1027	OUTLIER	MODIFICATION MR-FC-94-017	8/96
26	SA-3B-1	EPS	DG-1 STARTING AIR RECEIVER	AB063	1029	OUTLIER	MODIFICATION MR-FC-94-017	8/96
27	SA-3B-2	EPS	DG-2 STARTING AIR RECEIVER	AB064	1032	OUTLER	MODIFICATION MR-FC-94-017	8/96

Summary of Plant Area Summary Sheet (PASS) Forms

Table 3

PASS Form ID	Area Description	Outlier Condition	LAR IDs	RESOLUTION STATUS/SCHEDULE
CONT0994	Containment from 994 (basement) to below the 1014 slab, outside the bioshield		LAR014 LAR015	
CONT1013	Containment from 1013 (basement) to below the 1045 slab, outside the bioshield.	There are corroded raceway supports just below penetration M-93. The supports should be wire brush cleaned and some of the anchor bolts removed and inspected to determine if the corrosion is significant.		RESOLVED
CONT 1045	Containment from elevation 1045 and above	1. A number of 1" conduits at and near valves HCV- 864, 865 are inadequately beam-clamped to ductwork and or supported using "vertically" oriented beam clamps. These conduits need to be re-supported in an acceptable manner. 2. Conduits near VA-3A.B above the 1060 platform near the CCW inlet lines are over-span (about 15' - 20'). Conduit numbers are 4675A. B4508A. B4502A. EB4528A. EB4526A. Support needs to be added.		MR-FC-94-016 12 96
CONTBAYA	Containment, inside the bioshield on the "A" side, from elevation 994 to below the 1045 slab. This area includes the quench tank cubicle on El 994.	1 The clamps on the conduit leading to FIA-3115 on RCP A are loose - they need to be tightened. The same conduit on the other RCPs should be checked, a few are not as tight as they could be. 2 Next to RCP A - the conduit leading to the TE next to the ladder has a loose conduit clamp on the first support needs to be fixed.		RESOLVED
CONTBAYB	Containment, inside the bioshield on the "B" side, from elevation 994 to below the 1045 slab.			
INTAKE	Intake Structure below El 1007	A clamp is missing on conduit 7310 near Raw Water Pump AC-10B.		RESOLVED
REGENHX	Regen Heat Exchanger cubicle			

Table 3

Summary of Plant Area Summary Sheet (PASS) Forms

			The second name of the second na	
PASS Form ID	Area Description	Outlier Condition	LARIDS	RESOLUTION STATUS/SCHEDULE
ROOMOGH	Aux Building El 989-Room 4	Most of the light fixtures in the plant are hung using open books. While it is unlikely that a falling light lixture would damage a raceway (in fact many of the fixtures are below the raceways), it cannot be precluded.	LAR001 LAR002	ECN 94-490 4-96
ROOM005	Spent Fuel Pool HX and Cooling Pump Room, Aux Building El 989-Room 5		1.7	
ROOM019	Compressor Area, Aux Building El 989, Room, 19			
ROOM620	Lower Flectrical Penetration Room, Aux Building El 989 Room 20			
ROOM021(2)	East and West SI Pump Rooms. Aux Building El 971. Room 22 and 21.		LAR003A LAR003B	
ROOM023	Spent Regen Tank Room, Aux Building El 971 Room 23			
ROOM026	Hallway. Aux Building El 1007 Room 26A - G and the hallway leading to Room 25.	There is a conduit hanger supporting one small conduit next to Tank CH-11B that is broken. It should be repaired or removed	LAR004 LAR005	MR-FC-94-017 8.96
ROOM053	Hallway outside the battery rooms, Aux Building El 1007, Room 53			
ROOM054(5)	Battery Rooms 1 and 2, Aux Building El 1007, Rooms 54 and 55		LAR006 LAR007	
ROOM056(A)	Switchgear Rooms 56 and 56A, Aux Building, El 1011.			
ROOM057	Upper Electrical Penetration Room, Aux Building El 1013 Room 57		LAR008	

Table 3

Summary of Plant Area Summary Sheet (PASS) Forms

PASS Form ID	Area Description	Outlier Condition	LAR IDS	RESOLUTION STATUS/SCHEDULE
ROOM063(4.5. 6)	Aux Building, Elevation 1007, Rooms 63, 64, 65, and 66. These are the Diesel Generator Rooms and the Equipment Hatch Room.		LAR009	
ROOM070	Cable Spreading Room, Aux Building, El 1025		LAK010	
ROOM077	Control Room and the Control Room HVAC area			
ROOM081	Main Steam Room, Aux Building El 1036 Room 81		LAR012	
ROOMS0989	Aux Building E1'989, following rooms: Room 24 Room 18, CCW RW Heat Exchanger Room Room 16, Gas Compressor Room Room 14, "A" Shuidown IIX Room Room 14 "A" Shuidown IIX Room Room 13 Mechanical Penetration Area Room 13 Mechanical Penetration Area Room 17 Charging Pumps Valves Room Room 7 Charging Pumps Valves Room	One of the rod hangers in Room 14 is intesting one of the reds - it needs to be replaced to maintain support spacing requirements.	LAROI3	RESOLVED
ROOMS1007	Aux Building El 1007, following rooms: Room 61 East side of valve room Room 58 Personnel Hatch Room 59 Pipe Penetration Area Room 60 Sampling Room Room 22 Small Hallway Room 27 Drumming Area Room 25 Railroad Loading Area			
ROOMS1025	Aux Building El 1025, following rooms: Room 71 Calibration Room Room 69 General Area Room 68 Case Decon Room Room 67 Tool Crib Room 3 Around and above the Spent Fuel Pool	There is a large duct run in the ventilation area (Room 69). Some of the duct supports near column P-8A appear to be broken or damaged. The duct may be resting on conduit or tray below.		RESOLVED

Table 3

Summary of Plant Area Summary Sheet (PASS) Forms

PASS Form ID	Area Description	Outlier Condition	LAR IDs	RESOLUTION STATUS/SCHEDULE
VAULTS	Cables running from the Aux Building to the Intake Structure pass through two underground vaults in the open area outside the Intake Structure. One vault (call it Vault 1) is accessed through 2 manholes next to the entrance to the office area, the other vault (call it Vault 2) is accessed through a manhole directly in front of the entrance to the Intake Structure.			

Table 4
Summary of Limited Analytical Reviews

	Interaction Value				
LAR No.	Members/Co	nnections	Anchor	age	
001	0.66	3DL	0.81	3DL	
002	0.75	DL	1.00	DL	
003A	0.17	DL	0.31	DL	
003B	0.15	DL	0.60	3DL	
004	0.06	DL	0.15	3DL	
005	0.34	DL	0.76	3DL	
006	0.48	DL	0.82	LL	
007	(see calc)	RF	(see calc)	RF	
008	0.08	DL	0.03	3DL	
009	0.08	DL	0.10	DL	
010	1.36	DL	1.07	3DL	
012	0.58	3DL	0.20	3DL	
013	0.22	DL	0.66	3DL	
014	0.34	3DL	0.38	3DL	
015	0.99	3DL	0.39	3DL	

DL - Dead Load

3DL - 3x Dead Load (Vertical Load Check)

LL - Lateral Load Check

RF - Rod Fatigue Check

Table 5

Equipment Accepted Based on Meeting
Intent of Caveat

Serial No.	Equipment ID	Description	Description of Caveat and Actual Condition	Basis for Acceptance
1	HCV-1041A HCV-1042A	Fluid Operated Valves	Operator cantilever length not checked, since operator is side mounted (BSCAV #5)	Stress check based on 3g static loading
2	HCV-238 HCV-239 TCV-202	Fluid Operated Valves	Operator offset is 48" > 45" allowable for a 2" line (BSCAV #5)	SRT's Judgement
3	HCV-240	Fluid Operated Valve	Operator offset is 54" > 45" allowable for a 2" line (BSCAV #5)	Operator and valve are both supported
4	HCV-2504A	Fluid Operated Valve	Mounted on ½" diameter line, rather than greater than or equal to 1" line. Also, no offset measurement taken (BSCAV #4 and BSCAV #5)	Valve Operator and body are supported to a common point.
5	HCV-2506A HCV-2507A	Fluid Operated Valves	Mounted on small tubing, the offset is 20" (BSCAV #4 and BSCAV #5)	The valve, actuator, and the tubing are anchored to the wall.
6	HCV-438B HCV-438D	Fluid Operated Valves	Valve has a long ½" rod to laterally support the valve operator (BSCAV #7)	The rod will buckle (already has to some extent) and is, therefore useless and harmless.
7	HCV-921 HCV-922	Fluid Operated Valves	Small valve with no yoke, no offset check made (BSCAV #5)	Yoke stress is of no concern. Judged O.K. by inspection.

Table 6
List of Items Accepted Based on Drawing Review

Serial No.	Equipment I.D.	Equipment Description	Comments	
1	HCV-442	Fluid Operated Valve	Out for servicing. Identical to Valve HCV-446, accepted based on document review.	
2	RC-141 RC-142	Fluid Operated Valves	Valves were out for servicing. Accepted by drawing review.	
3	A/TE-112C A/TE-112H A/TE-122C A/TE-122H B/TE-112C B/TE-112H B/TE-122C B/TE-122H	Temperature Elements	Covered by insulation. Accepted by drawing review.	
4	PCV-102-1 PCV-102-2	Motor Operated Relief Valves	Out for servicing. Accepted based on drawing review and SRT's knowledge of their ruggedness based on review during testing and calibration.	

Table 7

Items Accepted Based on Existing Documentation

Serial No.	Equipment I.D.	Equipment Description	Calculation/Test Used as Basis for Acceptance	
1	AI-3 AI-54B AI-56	Instrumentation and Control Cabinet	Blockwall No. 7 is a potential interaction concern. Accepted based on seismic qualification of blockwall per OPPD Calculation No. FC04996.	
2	AI-214 AI-215	Instrumentation and Control Cabinet	Blockwalls Number 48 through 51 designed seismically and installed per MR-FC-81-92	
3	EE-8A EE-8B	Batteries on Racks	Accepted based on existing IEEE qualification and anchorage calculation.	
4	F0-1	Outdoor Diesel Fuel Oil Tank	Accepted based on OPPD Calculation No. FC06011	
5	HCV-150 HCV-151	Motor Operated Valves	Accepted Based on ABB Calculation No. O-MECH-CALC-062, performed for MOV Program (GL89-10)	
6	HCV-247 HCV-248	Solenoid Operated Valves	Accepted partly based on OPPD Specification No. 400.3, including Attachment 1. SRTs also observed the valves to be small, very well supported and seismically rugged.	
7	MCC-3C2 MCC-4A2	Motor Control Centers	Potential interaction concern with Blockwall No 9 resolved based on seismic qualification of wall per Reference PLDBD-CS-55, Revision 1, July 1991.	
8	NE-001 NE-004	Logarithmic Detectors	Accepted based on exiting IEEE 344 qualification. Ref. EEQ-H-12.	
9	Cable Trays in Room 26		Potential interaction concern due to surrounding Blockwalls Numbers 9 through 12 resolved on the basis of seismic qualification of walls per OPPD Calculation No. 5775305-A.16, Revision 1.	
10	Cable Trays in Rooms 53 and 54		Same comments as in Item 8 above, except that Blockwall Numbers are 1 through 4, and Reference Calculation Number is S775305-A.17, Revision 1.	

Table 8

SUMMARY OF OUTLIERS

No.	Outlier Description	Recommended Resolution	Resolution Status/Schedule ECN 94-090 MWO 943252 4 96 Resolved	
1	Generic Overhead lights are supported by open hocks.	Close the hooks or change the support system appropriately.		
2	Generic Many electrical cabinets in the Control Room and Rooms 56-56A are welded to the channels which are embedded in concrete without using a headed stud. Per NRC's SSER No. 2 this condition is an outlier.	Calculations were performed to show the adequacy of embedded channel. SRTs considered this outlier resolved based on this condition.		
3	Sixteen electrical cabinets are not bolted to adjacent cabinets and contain essential relays.	Bolt the cabinets to adjacent cabinets.	MR-FC-94-017 8 96 MR-FC-94-016 12 96	
4	AC-3B, component cooling water pump, adjacent duct support not attached on one side.	Complete the duct attachment	Resolved	
5	AI-106A cabinet. Adjacent unanchored fire fighting cabinet.	The cabinet was anchored.	Resolved	
6	AI-108B cabinet requires anchorage verification on one side (covered by fire foam).	Obtain anchorage information and verify its adequacy.	Resolved	
7	Al-3 cabinet has three missing screws on the inside panel door.	Replace screws.	MWO 941480 12 96	
8	CH-1B, 1C charging pumps an unanchored work table adjacent to small bore piping.	The work table was anchored.	Resolved	
9	HCV-1107A and 1108A Valves. The grating above the pit in which the valves are located is unanchored.	Anchor the grating	Resolved	

Table 8

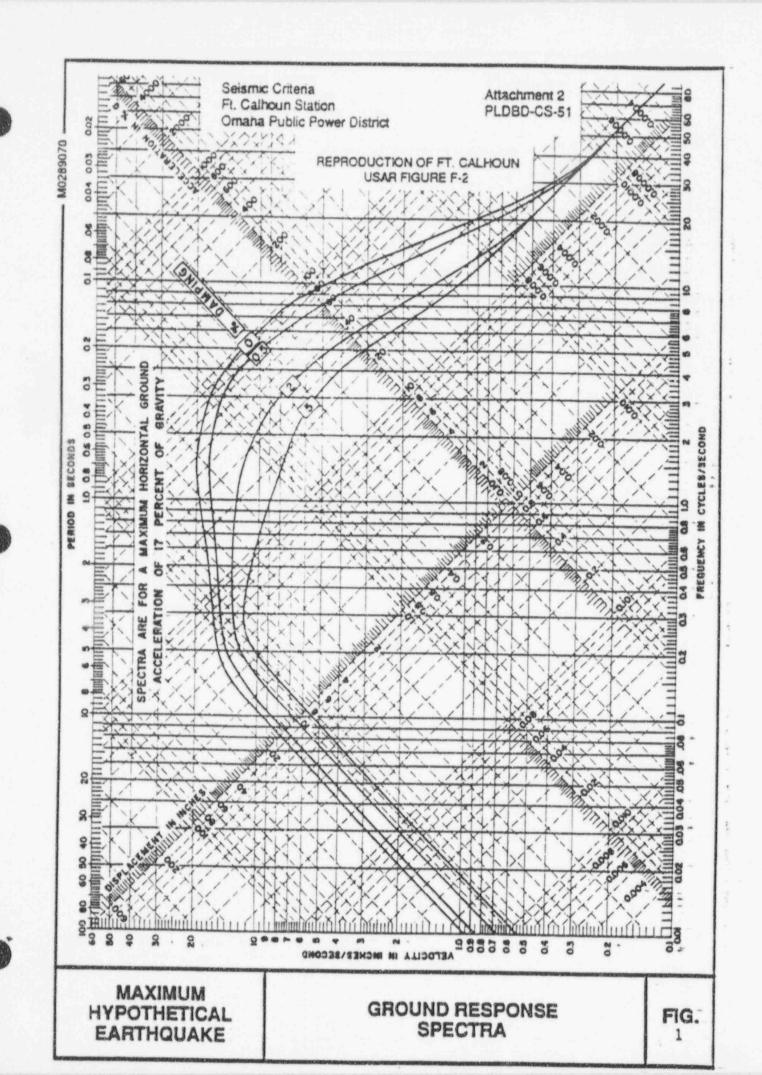
SUMMARY OF OUTLIERS

No.	Outlier Description	Recommended Resolution	Resolution Status/Schedule Resolved	
10	Four valves, HCV-1388B, LCV-101-1, LCV-101-2, and YCV-1045, have operator cantilever length beyond experience database, and also stresses obtained from 3g analysis are greater than allowable.	Perform stress analysis based on actual accelerations from piping analysis.		
11	HCV-238, AOV. One of the two anchors missing on the accumulator. Also, unistrut frame is very flexible.	Replace the missing anchor. Stiffen the frame	MR-FC-94-016 12 96	
12	HCV-240 valve components attached to both containment shell and internal structures.	Analyze valve for differential movement between containment shell and internal structure.	Resolved	
13	HCV-2861 AOV is in Service Building, which is not designed for design basis carthquakes.	Delete function of this valve by modification	MR-FC-94-022 9 96	
14	HCV-403C. Valve is too close to the strut frame, interaction concern	Check pipe deflection and resolve	Resolved	
15	MCC-3A2 No bolts in the rear of the cabinet.	Provide sufficient rear anchorage	MR-FC-94-017 8 96	
16	MCC-4A1, MCC-3B1 and PI-2857-1 have anchors which cannot be tightened.	Replaced anchors on PI-2857-1: replace anchors on MCCs.	Resolved MR-FC-94-017 8 96	
17	MCC-4A1 Adjacent unanchored storage cabinet: MCC-3B3 and MCC-4C4 have insufficient anchorage The storage cabinet was anchored. Provide sufficient anchorage		Resolved MR-FC-94-017 8 96	

Table 8

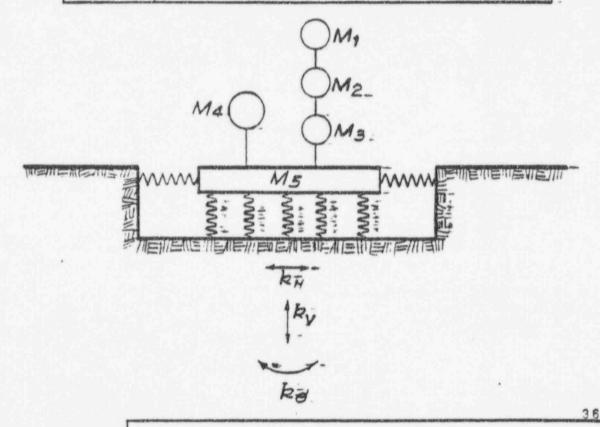
SUMMARY OF OUTLIERS

lfem No	Outlier Description	Recommended Resolution	Resolution Status/Schedule	ion
61	VA-3A, 3B, fans on vibration isolators. Also, seismie demand execeds capacity.	Tie the vibration holators down. Evaluate fan's seismic adequaes	MR-FC-94-016 12 96	96
20	F0-2-1 and F0-2-2. Day Tanks. Long sight glasses are vulnerable.	Replace sight glass with a plastic break-resistant glass, or other tough material	ECN 94-084 6-5	96 9
77	Eight DC starting air receivers. Straps not welded or pretenioned.	Weld or pretension the straps	MR-4C-94-017 8	8 296
13	Eleven tanks did not fall within the bounding GIP parameters.	Perform detailed analysis on 10 tanks Modrfy to eliminate requirement for tank WD-24	Resolved MR-FC-89-017 12	12.96
23	Three tanks. AC-1C. 1D, and CH-7, have allowable anchorage capacity less than the required spectral peak acceleration.	Perform detailed analysis	Resolved	
24	Five pieces of equipment. NE-001, 004 and RC-HTRS-10. 11 and 12, are Class **0.	Based on existing IEEE-344 qualification NE-001 and 004 were found acceptable by the SRTs. RC-HTRS-10.11 and 12 were found obviously seismically rugged since they are welded to the bottom of the pressurizer.	Resolved	
25	Cable and Conduit Raceways in some areas require minor repairs (Refer to Table 3 for details)	Perform the required repairs.	MR-FC-94-016 12 MR-FC-94-017 8	12 96 8 96



		MASS DATA	
HA55	K SECT	MASS MOMENT OF INERTIA	K SEC 2 FT
M,	381	ABOUT EAST-WEST AXIS I FAST WEST	27.96×106
M2	343	ABOUT NORTH-SOUTH AXIS I WORTH-SOUTH	34.87×106
Ma	352		
Ma	2485		
Ms	2450		

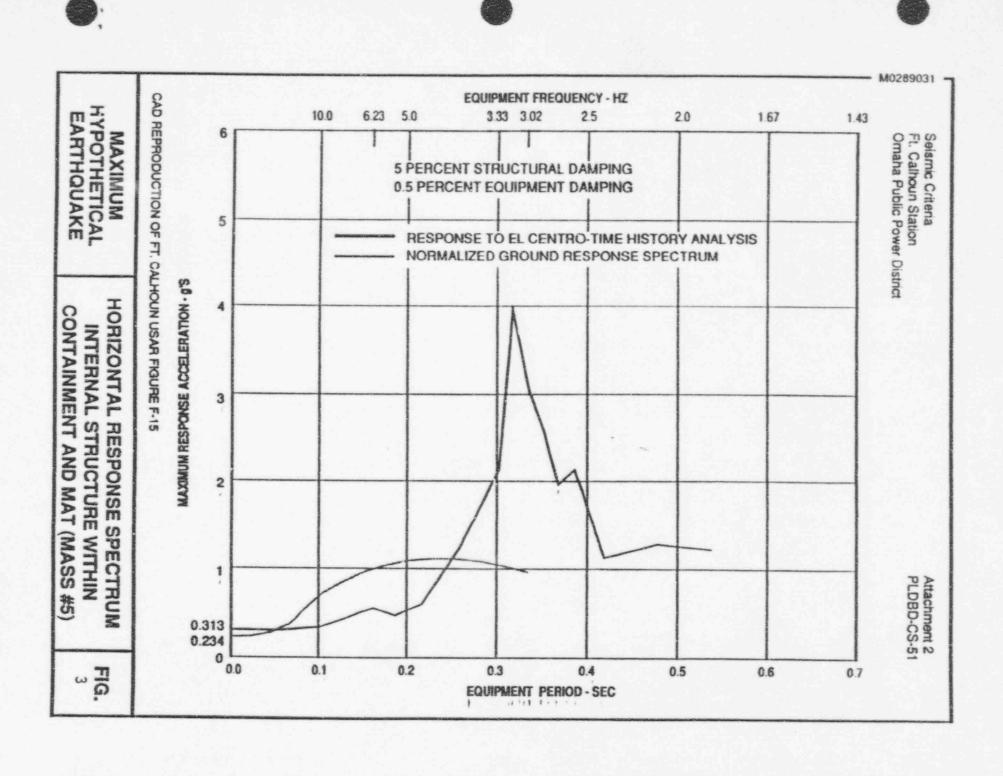
	F	OUNDATION SPRING	CONSTANTS
ko	KAD	ABOUT HORTH SOUTH AXIS	ABOUT EAST-WEST AXIS
k,	1/FT	IN. EAST-WEST DIRECTION	IN NORTH-SOUTH DIRECTION
kv	YFT	19.7×10.6	

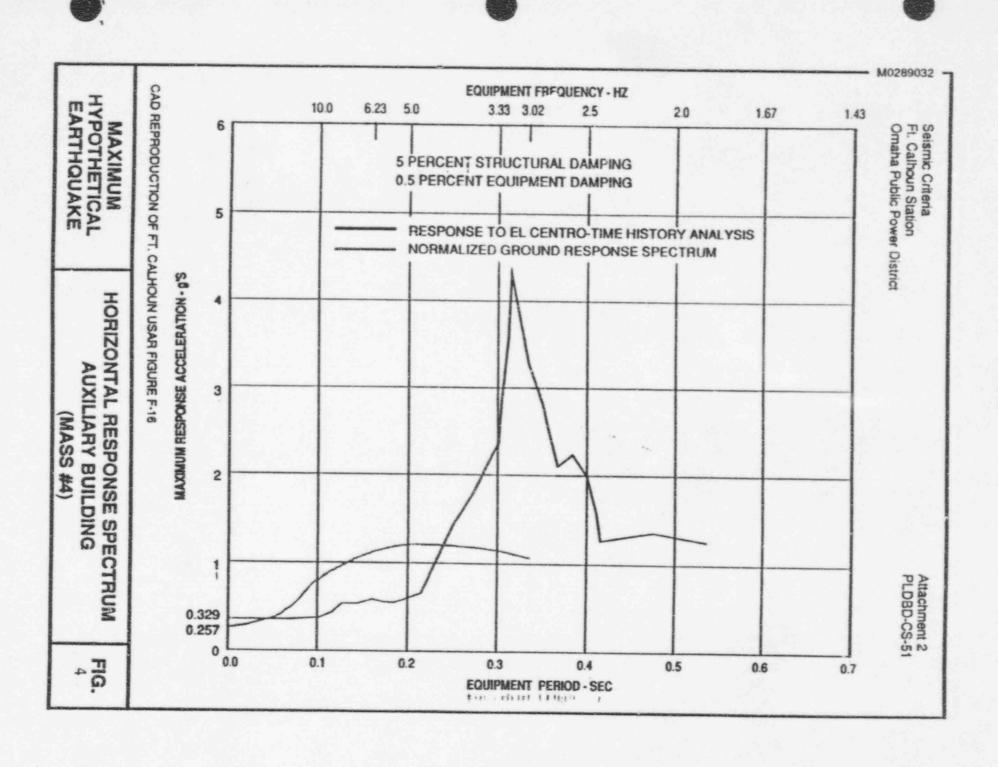


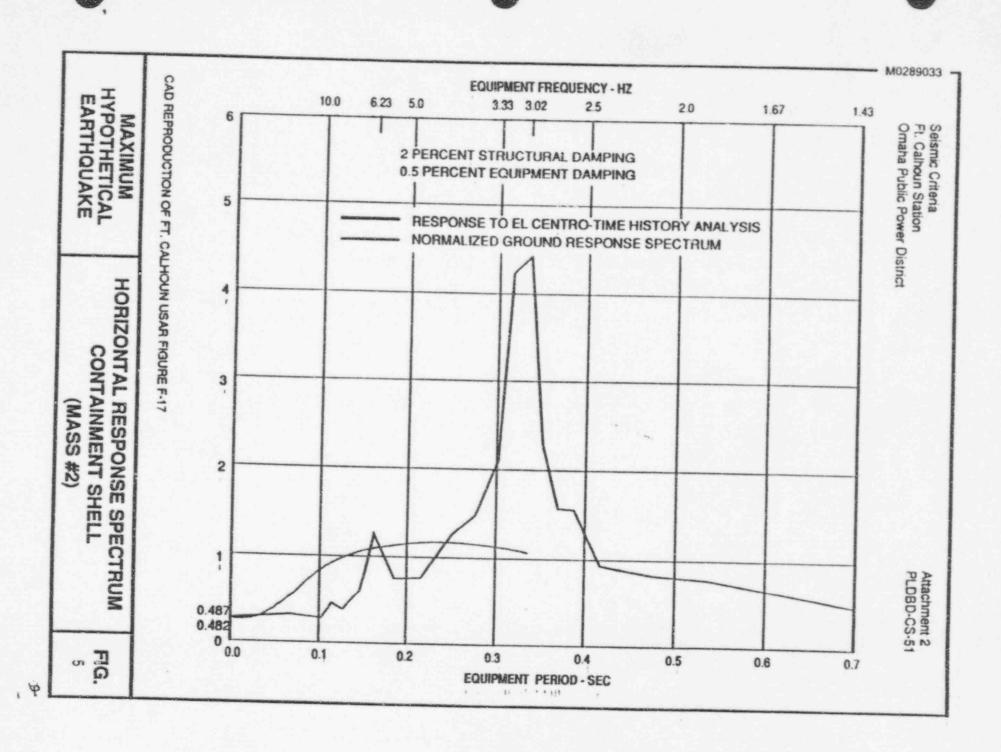
FOUNDATION SPRING CONSTANTS - MASS DATA

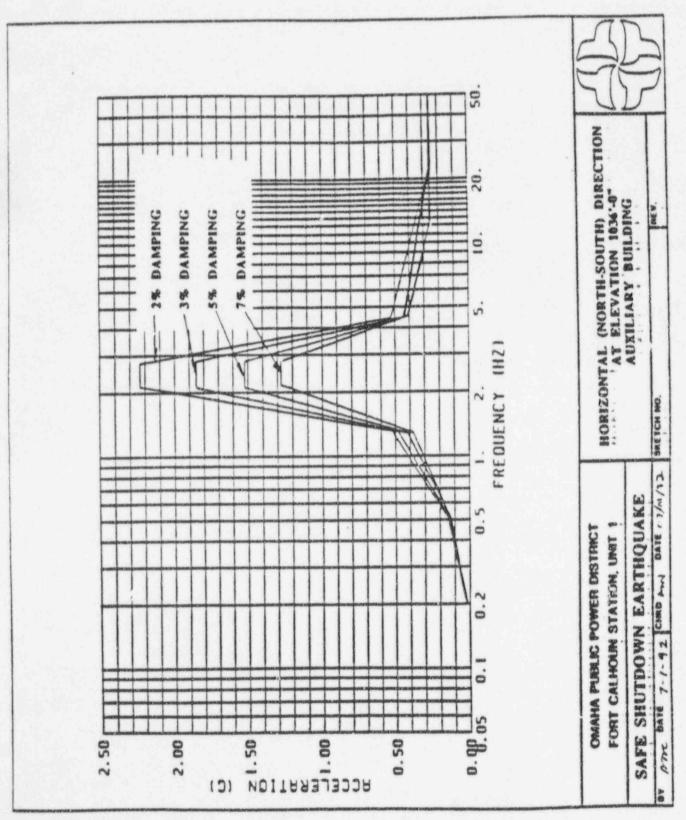
OMAHA PUBLIC POWER DISTRICT FORT CALHOUN STATION-UNIT NO.

FIG. 2

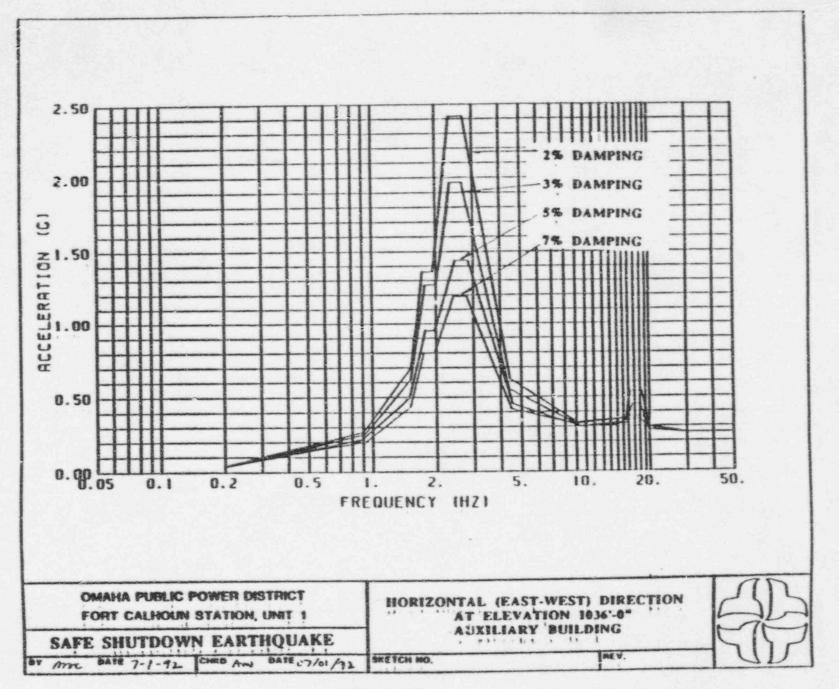


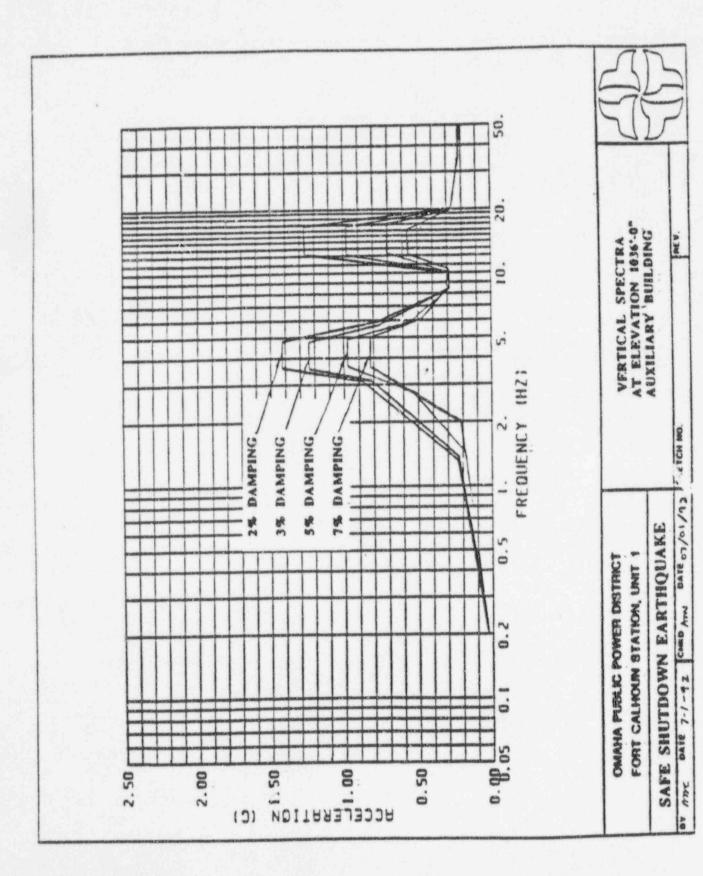




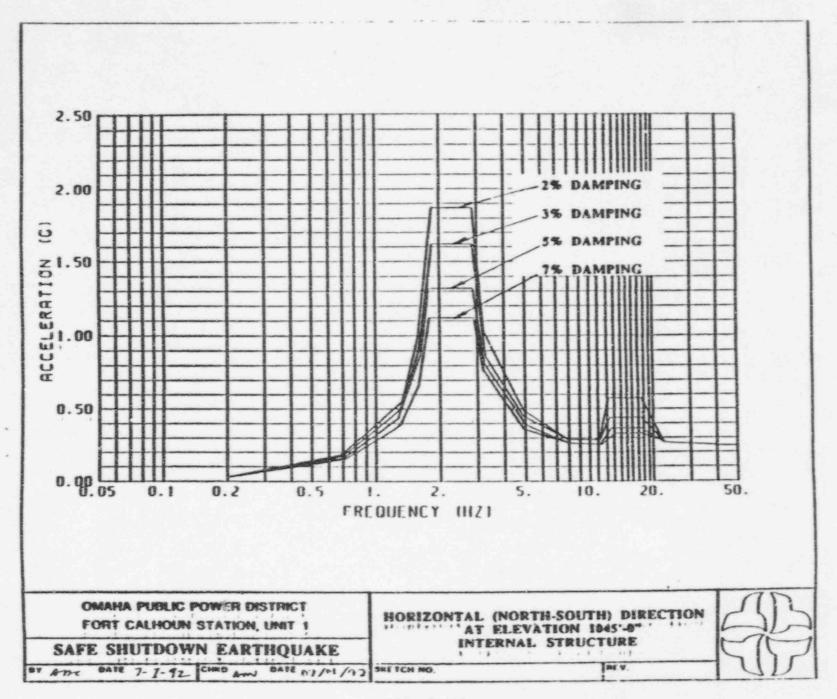


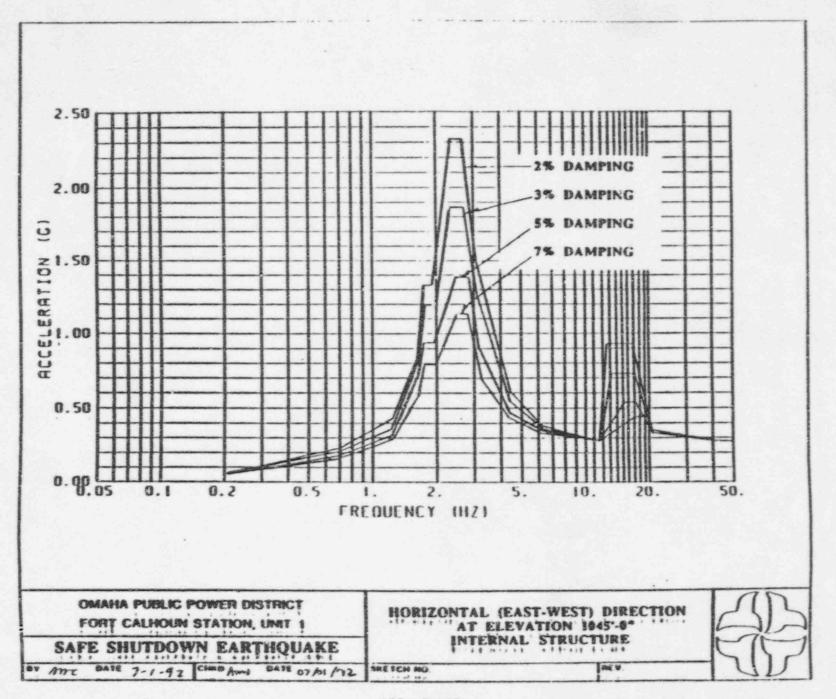
FIGUR.

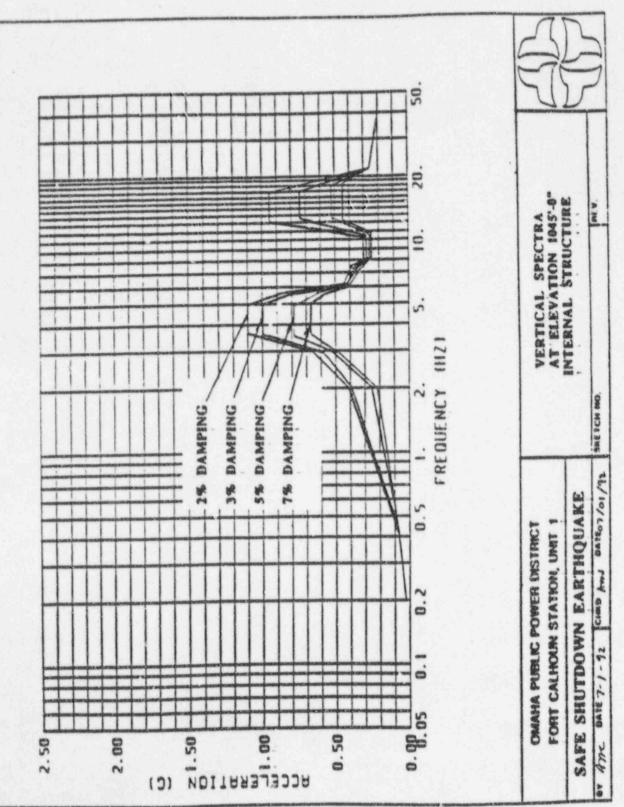




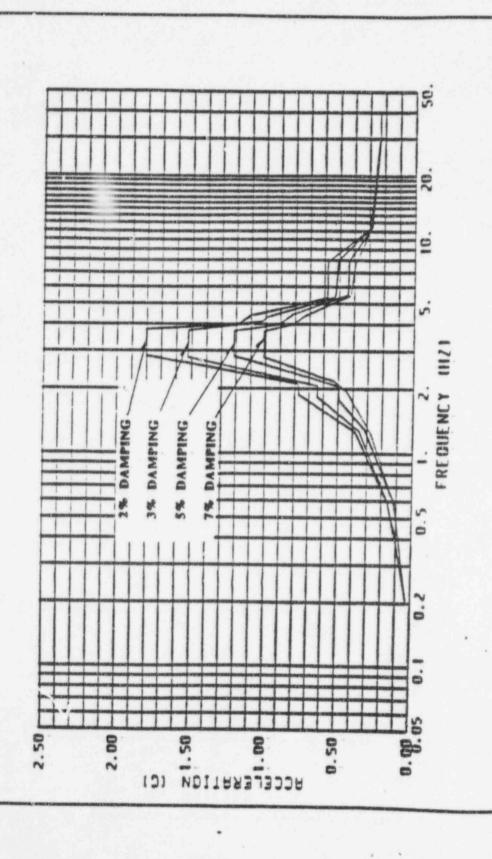
A12 of A48







A33 of A48



SAFE SHUTDOWN EARTHQUAKE FORT CALHOUR STATION, INIT 1 OWAHA PUBLIC POWER DISTRICT

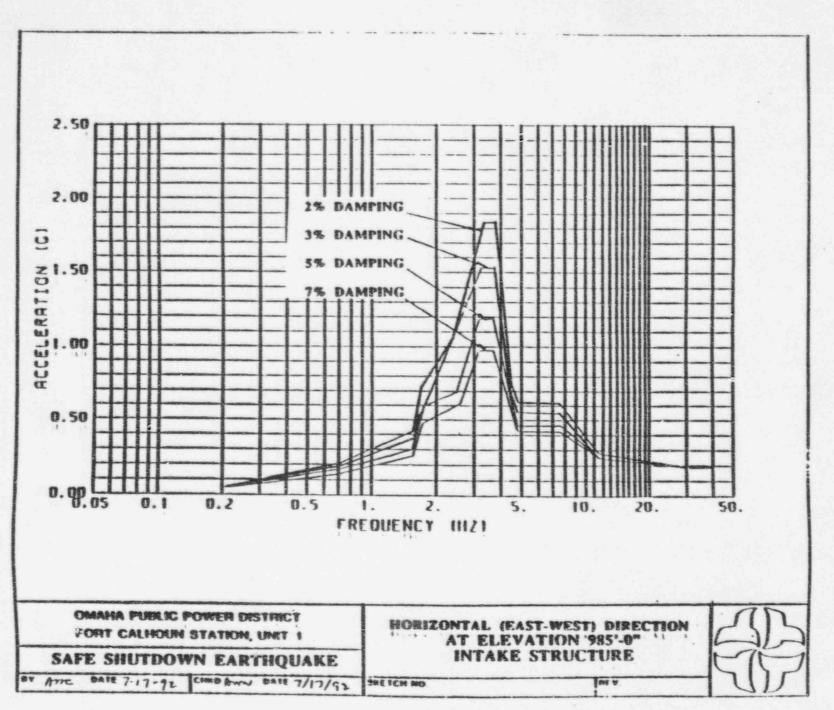
BY ANC BASE 7-17-92 CHAIR ALL BASE 7/17/12

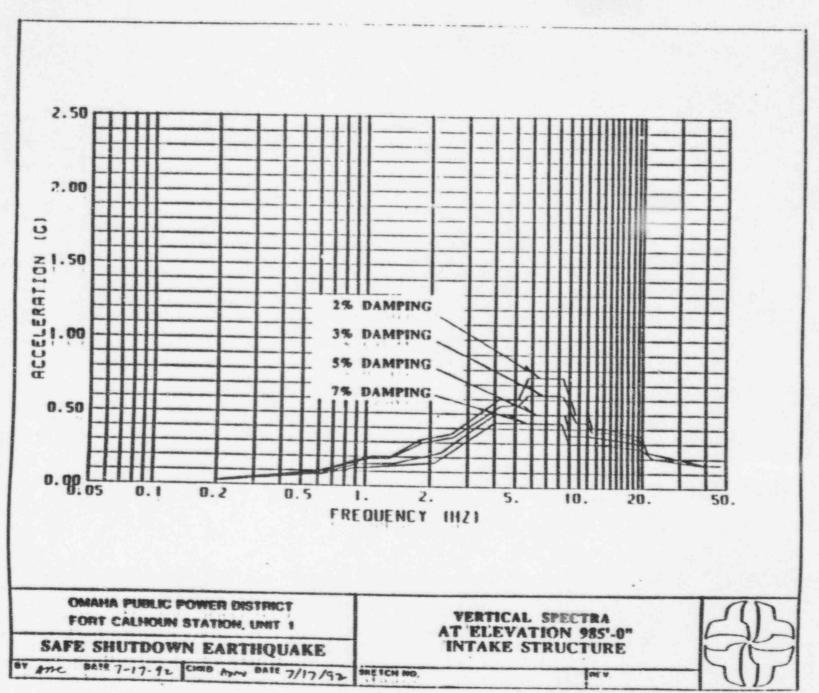
SHE BEN ING

MORIZONTAL (NORTH-SOUTH) DIRECTION AT ELEVATION 985.6" INTAKE STRUCTURE



a su





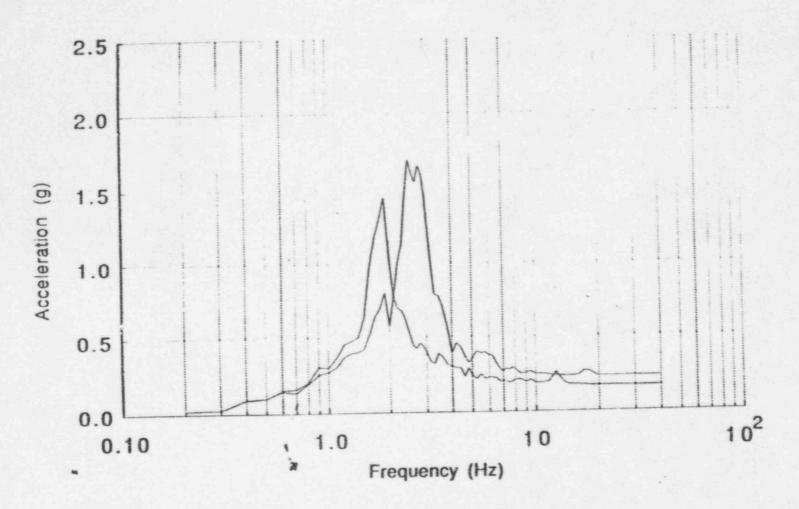


FIGURE 4.3 COMPARISON OF UPPER BOUND AND LOWER BOUND RAW RESPONSE SPECTRA, AUXILIARY/CONTAINMENT/INTERNAL STRUCTURE, NORTH SOUTH DIRECTION, 2% DAMPING

FIGURE 16

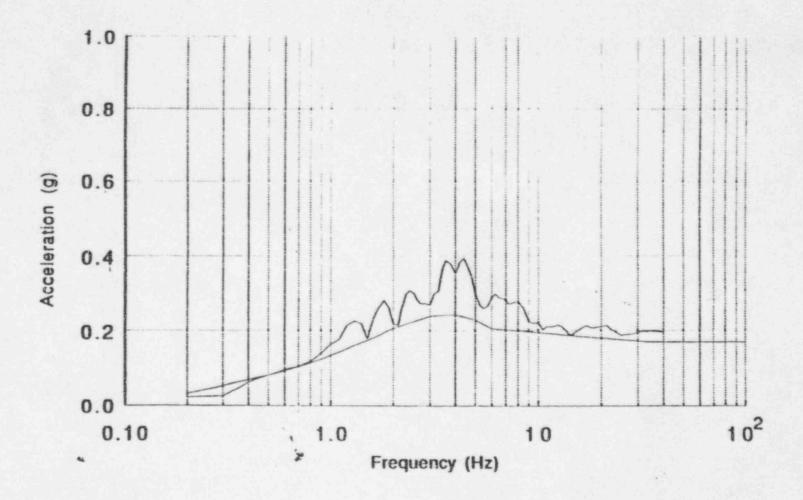
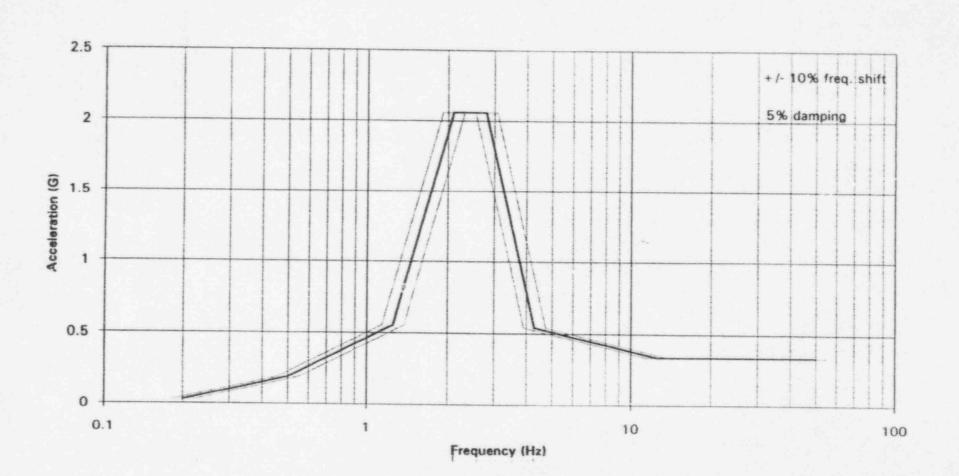


FIGURE 2.4 COMPARISON OF DESIGN BASIS GROUND RESPONSE SPECTRUM AND ENVELOPING TIME HISTORY RESPONSE SPECTRUM, NORTH-SOUTH DIRECTION, 7% DAMPING



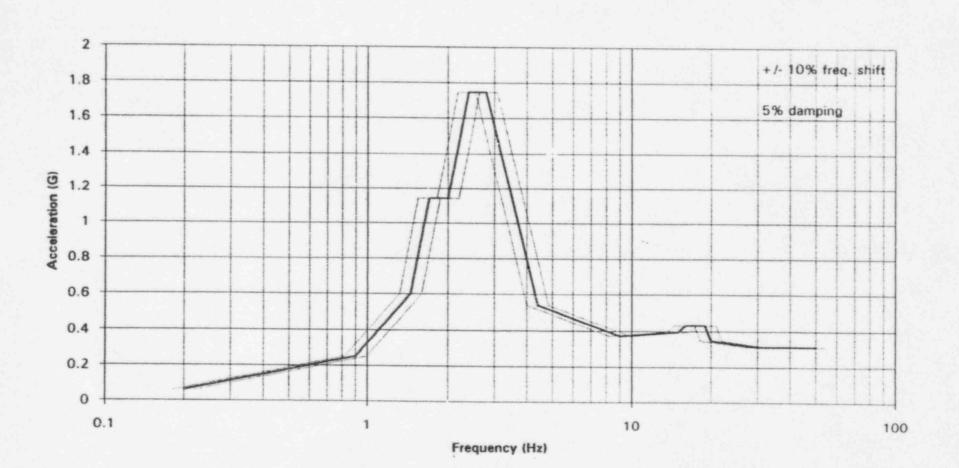
FIGURE 17

OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 N-S BROADENED RESPONSE SPECTRA AUXILIARY BUILDING ELEVATION 1036'-0"

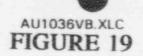




OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 E-W BROADENED RESPONSE SPECTRA AUXILIARY BUILDING ELEVATION 1036'-0"



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OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 VERTICAL BROADENED RESPONSE SPECTRA AUXILIARY BUILDING ELEVATION 1036'-0"

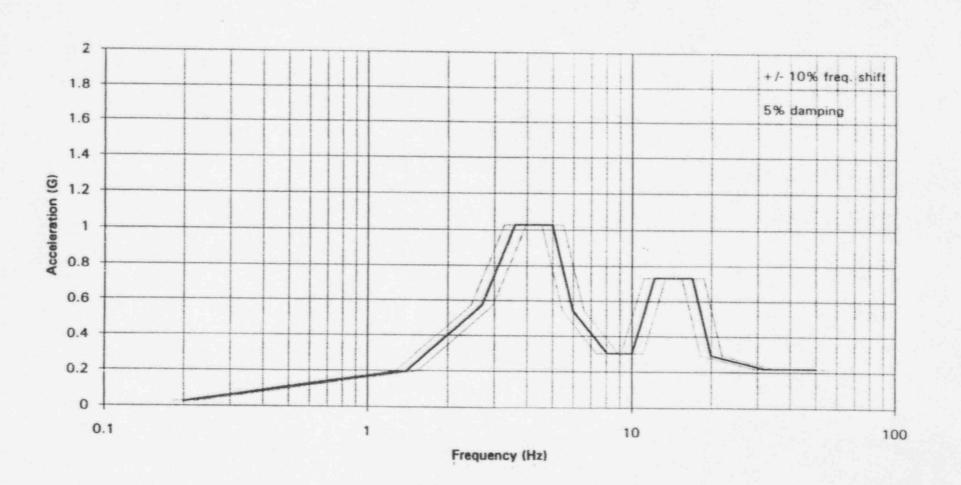
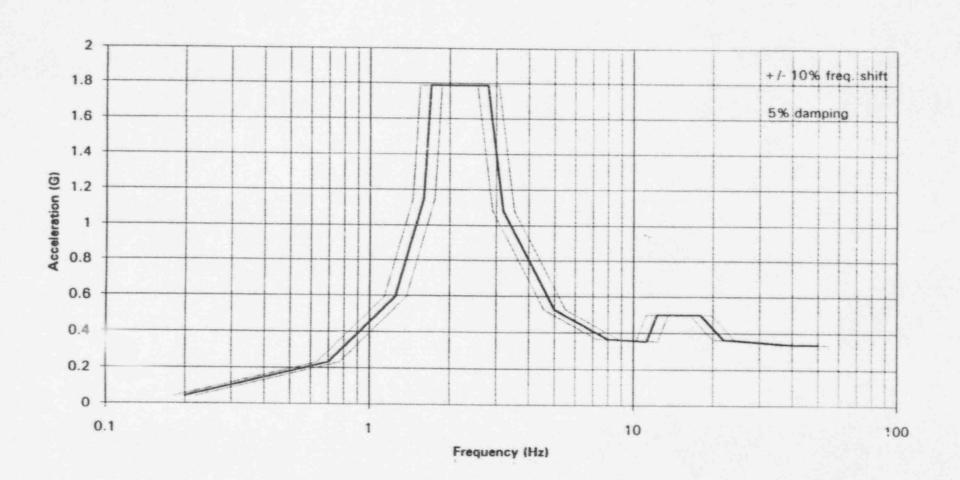


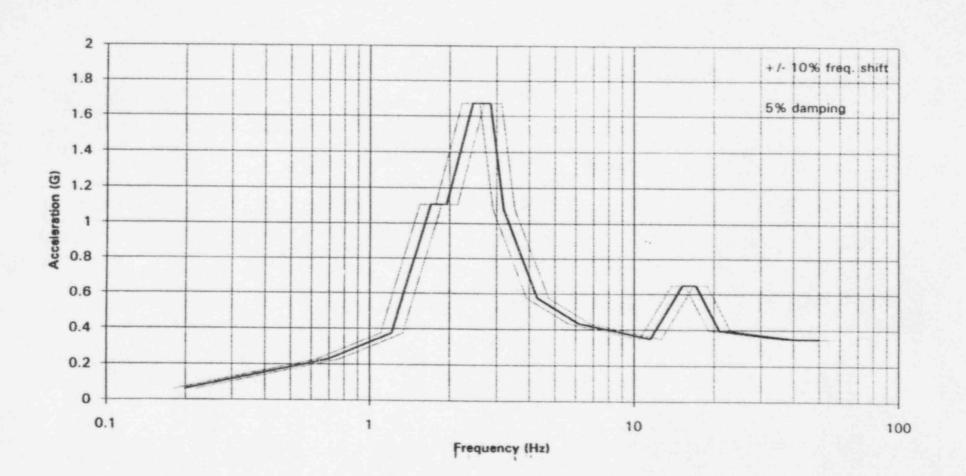
FIGURE 20

OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 N-S BROADENED RESPONSE SPECTRA INTERNAL BUILDING ELEVATION 1045'-0"

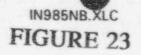




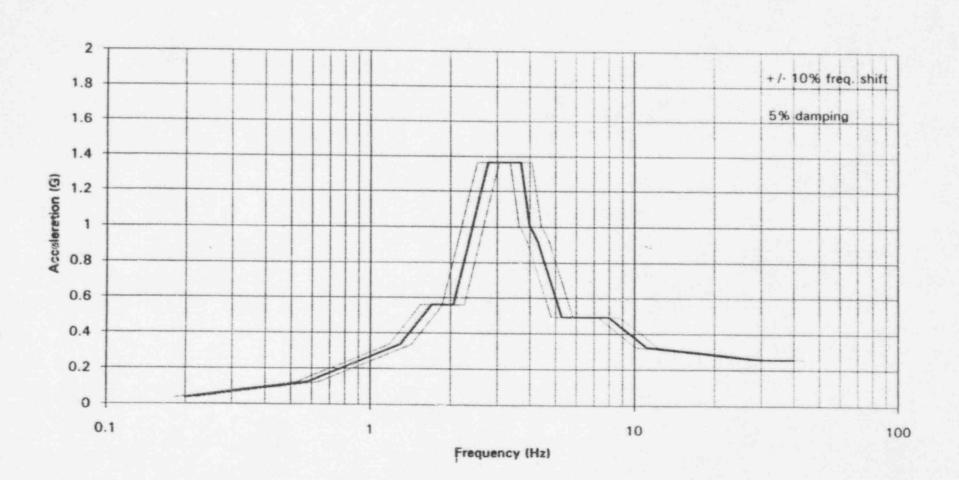
OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 E-W BROADENED RESPONSE SPECTRA INTERNAL BUILDING ELEVATION 1045'-0"

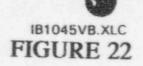


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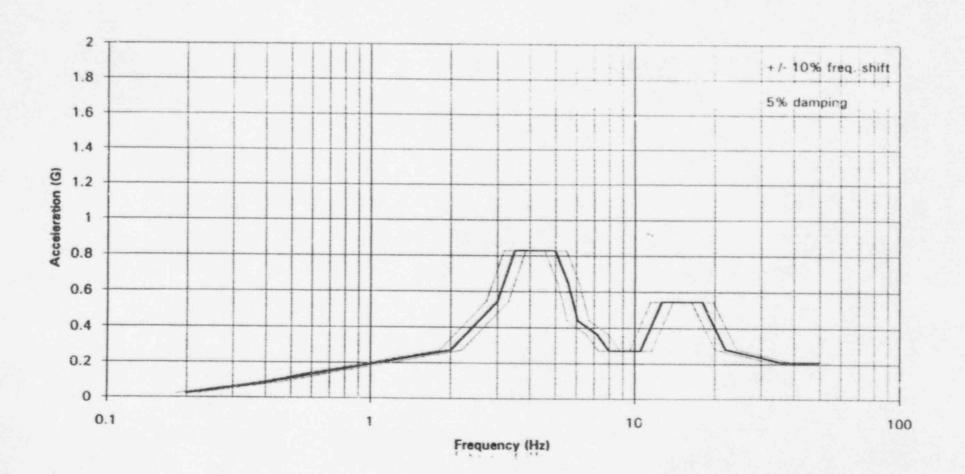


OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 N-S BROADENED RESPONSE SPECTRA INTAKE STRUCTURE ELEVATION 985'-0"





OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 VERTICAL BROADENED RESPONSE SPECTRA INTERNAL BUILDING ELEVATION 1045'-0"



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IN985EB.XLC FIGURE 24

OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 E-W BROADENED RESPONSE SPECTRA INTAKE STRUCTURE ELEVATION 985'-0"

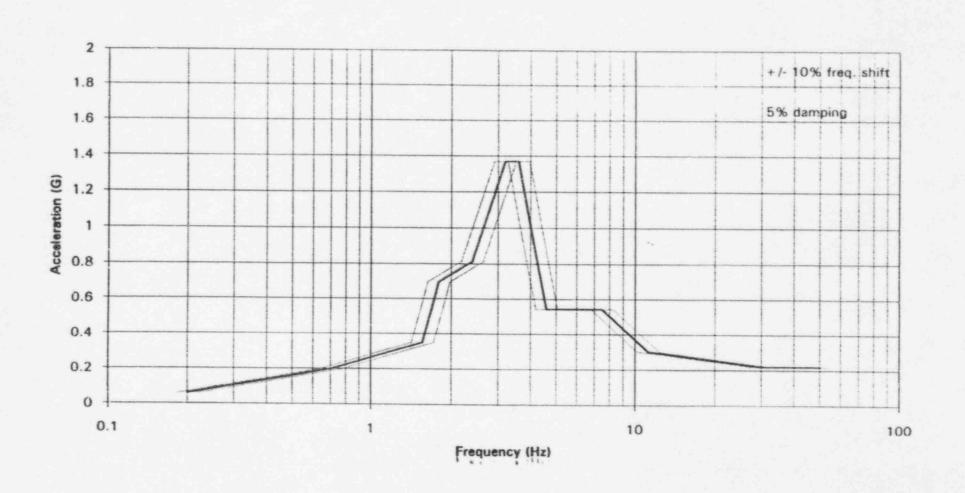
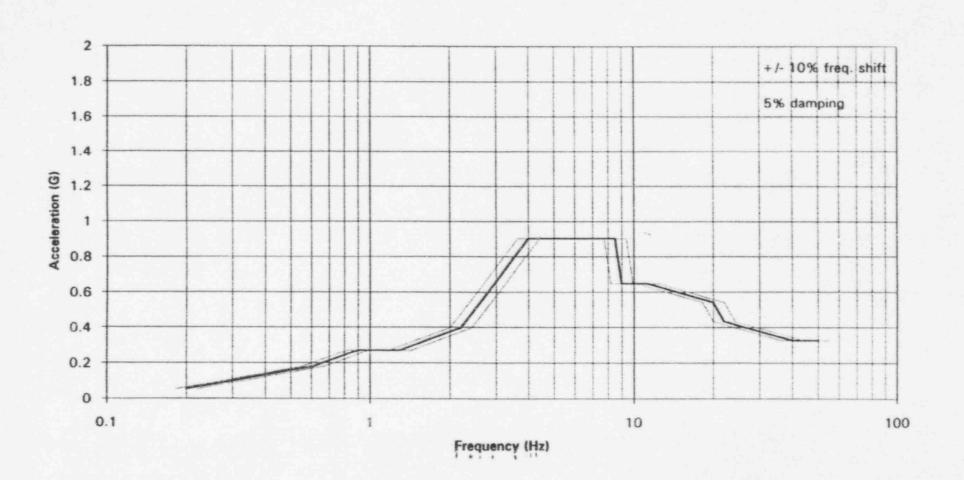
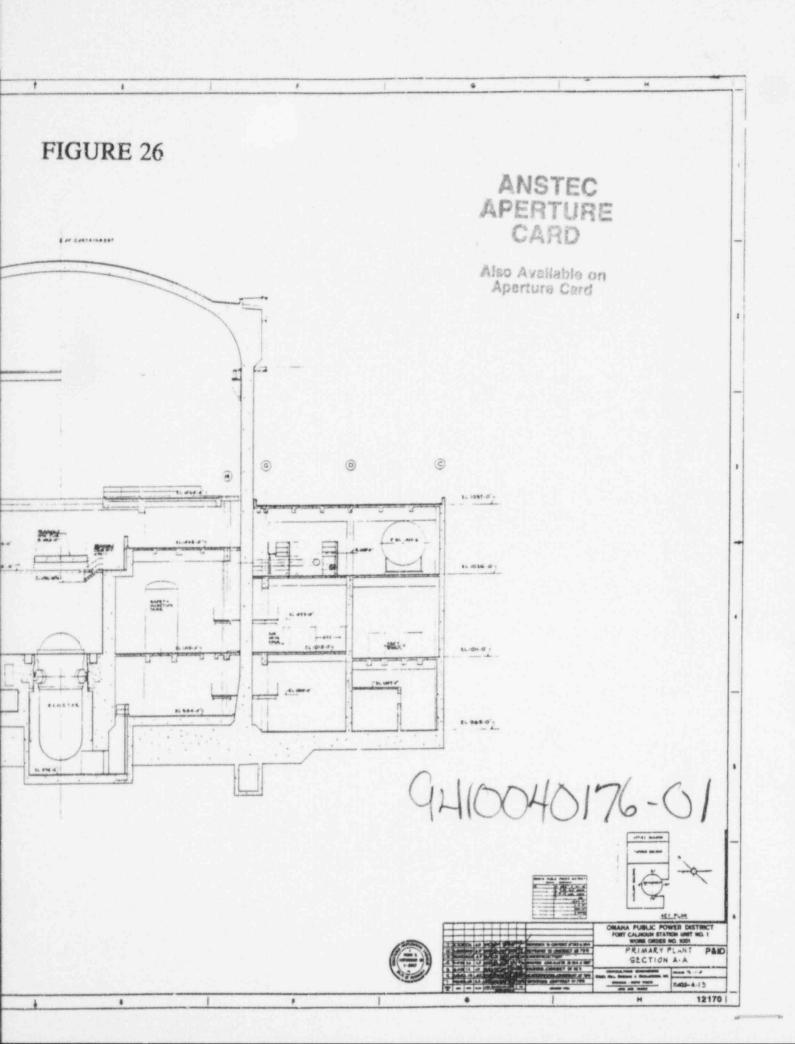


FIGURE 25

OMAHA PUBLIC POWER DISTRICT, FORT CALHOUN STATION, UNIT 1 A-46 VERTICAL BROADENED RESPONSE SPECTRA INTAKE STRUCTURE ELEVATION 985'-0"



18 STO 740 1 1007 -Drawing no. 11405-5-59



APPENDIX A GLOSSARY OF TERMS

GLOSSARY OF TERMS

ARL: Associated Relays List

ASCM: Alternate Seismic Criteria and Methodologies

ECN: Engineering Change Notice FCS: Fort Calhoun Station

GIP: Generic Implementation Procedure

IPEEE: Individual Plant Examination for External Events

ISRS: In-Structure Response Spectra
LAR: Limited Analytical Review
MR: Modification Request
MWO: Maintenance Work Order
OPPD: Omaha Public Power District
OSVS: Outlier Seismic Verification Sheet

PASS: Plant Area Summary Sheet SCE: Seismic Capability Engineer

SEWS: Screening Evaluation Work Sheets

SRT: Seismic Review Tea

SSEL: Safe Shutdown Equipment List SVDS: Seismic Verification Data Sheets USAR: Updated Safety Analysis Report

USI: Unresolved Safety Issue

APPENDIX B RESUME OF SEISMIC CAPABILITY ENGINEERS

EDUCATION:

Kurukshetra University - India - BSME - 1976-1981

Power Engineers Training Society - New Delhi, India - Certificate course in Power Plant Operations and Maintenance (37 weeks) - 1981-1982

Tata Electric Companies - Bombay, India - Control Room Operations Training with the use of Simulator - 1982

University of Illinois - Chicago - Graduate Coursework (48 QTR HRS) in Mechanical Engineering - 1984-1985

Seismic Qualification Utilities Group

Equipment Selection and Relay Evaluation Training- 7/1991.

Walkdown Screening and Seismic Evaluation Training-9/1992.

Seismic Individual Plant Examination Training- 10/1992.

WORK EXPERIENCE:

1/91 -Present 6/89 -1/91 Omaha Public Power District 444 S. 16 St. Mall, Omaha, NE 68102

NUCLEAR DESIGN ENGINEER SENIOR MECHANICAL ENGINEER

Mr. Mathew is responsible for Mechanical engineering design; conceptual, preliminary, final and construction packages. He provides Project engineering; Prepare and track budget and schedules, A/E firm selection, coordination and review of work performed by A/E companies. He is responsible for purchase and review of work orders, preparation specifications, material and service evaluations, contract documents, procedures, system descriptions, analysis, LER, SAO/JCO/LCO, economic evaluation, root cause analysis, resolution of QA/DR's, QC/NCR's, Licensing and other commitments. Mr. Mathew performs Engineering Studies, Calculations and Analyses. He also provides construction management support and field engineering supports. He is also responsible for the seismic qualifications and seismic evaluations in Engineering Mechanics/Analysis Group.

Mr. Mathew have experience in component stress analysis, finite element model analysis and dynamic analysis. He is familiar with codes and standards including ASME B&PV Codes, AISC, ANSI, ASTM, AWS, IEEE Standards, NRC Regulatory Guides, Title 10 of CFR, NUREG'S, MIL and UL Specifications.

4/85 - 10/88 10/88 - 6/89 Sargent & Lundy Engineers 55 E. Monroe, Chicago, IL 60603

ENGINEERING ANALYST

Mr. Mathew was responsible for preparation, review, and approval of environmental (EEQ) and seismic qualification test plans, reports, tests, and analysis for safety-related equipment used at various nuclear power stations for a number of utilities. He has designed the mounting details of various electrical and mechanical components, HVAC hangers, piping and pipe supports, clamps, snubbers, mechanical and electrical penetration assemblies and the loads required for the design of equipment foundations and floor slabs.

Mr. Mathew was also responsible for performing and reviewing plant backfit and Modification packages. In addition, he has prepared and reviewed Administrative, Quality and Technical Procedures and Guidelines. He was also responsible for verifying material and component specifications, conduct Engineering Reviews of safety related parts and equipment purchases, perform Commercial Grade Item Dedication for safety related use, prepare and approve Material Evaluation Reports/Material Procurement Plans and Specifications for spare parts and components.

National Thermal Power Corporation New Delhi, India

11/81 - 4/83

OPERATIONS ENGINEER

Mr. Mathew worked in the capacity as a controller for the Boiler, Turbine and Generator control panels in the control room of a 210 MW Fossil Power Plant Unit at a 720 MW Station.

Mr. Mathew was responsible for unit cold, warm and hot start-ups, synchronizing unit to the grid, normal operations, maintaining control room logs, equipment tag outs for maintenance and returning them to service, running surveillance tests, and planned and emergency unit shut-downs. In addition, Mr. Mathew was a member of the task force for improving plant performance and capacity factor utilitzation.

RANDEL E. LEWIS

EDUCATION:

B.S.- Mechanical Engineering, University of Nebraska at Lincoln, 1974 M.S.- Mechanical Engineering, University of Nebraska at Lincoln, 1981 SQUG Training, 1992 and 1993

REGISTRATION:

State of Nebraska, # 5018

PROFESSIONAL HISTORY:

Omaha Public Power District, Omaha, NE

Plant Engineer Fossil, 1974-1979 Senior Engineer Nuclear, 1979-1984 Supervising Engineer Nuclear, 1984-1990 Principal Engineer Nuclear, 1990-Present

PROFESSIONAL EXPERIENCE:

Mr.Lewis is heavily involved in seismic issues related to piping, valves, equipment, structures, and cable trays at the Fort Calhoun Nuclear Power Station from 1979 to present. He is also instrumental in the development of alternate seismic criteria for Fort Calhoun.

ROBERT P. KENNEDY

EDUCATION:

8.S. - Civil Engineering, Stanford University
M.S. - Structural Engineering, Stanford University
Ph.D. - Structural Engineering, Stanford University

REGISTRATION:

State of California, State of Alabama

PROFESSIONAL HISTORY:

RPK Structural Mechanics Consulting, Yorba Linda, California, President, 1987 to Present

National Technical Services Engineering, Los Angeles, California, Vice President, 1985 - 1987

Structural Mechanics Associates, Newport Beach, California, President, 1979-1985

Engineering Decision Analysis Corp., Newport Beach, California, Vice President, 1977 - 1979

Homes and Narvier, Inc., Los Angeles, California, Manager of Engineering Mechanics Division, 1970 - 1979

PROFESSIONAL EXPERIENCE:

Dr. Kennedy has over twenty years experience in static and dynamic analysis plus design of special purpose civil and mechanical-type structures, particularly for the nuclear, petroleum, and defense industries: design of structures to resist extreme loadings including seismic, missile impact, extreme wind, impulsive loads, and nuclear environmental effects; development of computerized structural analysis methods: administrative and program management; and teaching.

Seismic Ruggedness - Nuclear Facilities

Chairman, Senior Seismic Review and Advisory Panel (SSRAP), jointly advising both nuclear power utilities and the U.S. NRC on Issues relating to seismic ruggedness of existing nuclear power plants. Member of NRC Expert Panel on Seismic Margin for nuclear power plants. Co-author of Electric Power Research Institute (EPRI) Seismic Margin Research Program. Provided technical direction on Seismic fragility portion of seismic probabilistic risk assessments for 23 nuclear power plants. Developed the methodology most commonly used for such studies and author of many technical papers thereon.

Taught short courses on seismic PRA methodology in U.S., Spain, Taiwan, and People's Republic of China. Consultant on seismic evaluation or design for more than 40 nuclear facilities through the world. Directed seismic analysis of many nuclear power plant buildings and components. Directed many nonlinear seismic response analyses investigations. Evaluated effects of differential earth movement (faulting) on nuclear facility. Performed a number of

dynamic soil-structure interaction analyses of nuclear reactor containment buildings accounting for the nonlinear effects of base slab uplift. Directed nonlinear seismic evaluation of nuclear facility to demonstrate increased seismic capacity. Evaluated concepts for seismic response mitigation and increased energy absorption. Has participated in 13 nuclear power plant seismic walkdown.

Dynamic Loads - Nuclear Facilities

Extensive experience in the analysis of nuclear facilities subjected to extreme dynamic loads including effects of external missile and aircraft impact, and impulsive loading resulting from loss-of-coolant accident and SRV discharge. Prime developer of the method currently in extensive use by the nuclear industry in the U.S. for evaluating the local effects of missile impact on concrete. Consultant on the effects of aircraft impact for several nuclear plants. Consultant to General Electric on effects of pool swell loads resulting from LOCA, and on the increased dynamic reserve margin available in structures subjected to pulsive loads. Consultant to G.E. and Mark I, Mark II, and Mark III Owner's Group on combination of responses from multiple dynamic loadings. Consultant on Mark I and Mark III evaluations to address the conservatism and uncertainty associated with standard structural analyses for SRV loadings. Consultant on methods of response combination and expert witness at Black Fox hearings. Consultant to Mark I and Mark III groups on conservatism, uncertainty, structural modeling, and load definition for new dynamic loads. Consultant on three Mark III BWR plants with free-standing steel containment, Leibstadt, Allens Creek, and River Bend, in order to evaluate realistic containment response to SR; loadings as current approaches are overconservative and lead to serious design problems. Developed floor response spectra for final design of attached piping for Leibstadt plant by coupled analysis such that beneficial effects of energy feedback are included. Developed method to account for the coupling of equipment and piping to the main structure and to account for energy feedback from the subsystem to the structure. Developed method to account for random phasing of multiple harmonics of condensation oscillation loading in order to compute responses more compatible with measured results. Member ASCE committee on impact and impulse analysis of nuclear facilities, and ACI committee which developed code for the design of nuclear safety-related concrete structures subjected to impact and impulse loads.

Dr. Kennedy has parsonally performed seismic walkdowns of 12 nuclear power plants and serves on numerous government (NRC) and industry advisory boards (EPRI) dealing with seismic qualification of nuclear power plant facilities.

PROFESSIONAL GROUPS:

Chairman, Seismic Analysis, Nuclear Structure and Materials Committee, Structures Division, ASCE.

Chairman, Seismic Analysis of Safety Class Structures Standard Committee, Technical Council on Codes and Standards, ASCE.

Former Chairman, Gas and Liquid Fuel Lifelines Committee, Technical Council on Lifeline Earthquake Engineering, ASCE.

Member, Nuclear Structures and Materials Technical and Administrative Committee, Structures Division, ASCE.

Member, Impact and Impulse Analysis, Nuclear Structures and Materials Committee Structures Division, ASCE.

Member, Editing Board, ASCE Report entitled "Structural Analysis and Design of Nuclear Plant Facilities."



Member, Ad Hoc Group on Soil-Structure Intersection, Nuclear Structures and Materials Committee, Structures Division, ASCE.

Member, ACI 349, "Subcommittee on Standard Requirements for Nuclear afety-Related Concrete Structures," Design Committee and Working Group 5 - "Impactive and Impulsive Loads."

Member, AWWA DIOO Revision Task Force, charged with revising the AWWA Standard for Welded Steel Tanks for Water Storage.

Member, National Research Council Subcommittee on Probabilistic Selsmic Hazard Assessment.

EDUCATION

Colorado State University - Ph.D. Structural Engineering - 1970

Colorado State University - M.S. Structural Engineering - 1968

University of Baghdad, Iraq - B.S. Civil Engineering - 1961

Electric Power Research Institute-Sponsored Courses: A-46 Walkdown Screening and Seismic Evaluation (1992); Add-On Seismic IPE Training (1992)

REGISTRATION

Structural Engineer - Illinois

RESPONSIBILITIES

Dr. Al-Dabbagh performs assessments and qualifications of equipment and systems such as raceway systems; heating, ventilating, and air conditioning (HVAC) systems; piping and their supports; and tanks and their anchorage. He is also involved in the seismic potential interaction and the II/I issues. He also participates in field walkdowns to assess or resolve nonconformance problems. Dr. Al-Dabbagh also performs evaluations and modifications of components to resist various impactive and impulsive loads generated by potential seismic interaction, explosion, missiles, component failure, and load movement.

Dr. Al-Dabbagh has been with Sargent & Lundy since 1973. From 1970 to 1973, he worked as a structural engineer with Unarco Industries, Inc., Chicago, Illinois.

SELECTED EXPERIENCE

- Seismic qualification of rod-hung raceway systems for Dresden 2 and 3
- Seismic qualification of liquid hydrogen tanks for Quad Cities 1 and 2
- Seismic II/I qualification of electrical raceways, HVAC systems, piping, and equipment for Quad Cities 1 and 2
- Seismic II/I qualification of items located above new battery racks for Dresden 3
- Seismic II/I qualification of fire protection and heating piping systems in the diesel generator room for Dresden 2 and 3
- Seismic qualification of diesel fuel tanks and associated piping for Dresden 2 and 3
- Seismic qualification of HVAC systems for Salem 1 and 2
- Seismic qualification of HVAC systems and required modifications for Watts Bar 1 and 2
- Equipment and component qualification for potential seismic interactions for Byron/ Braidwood, Clinton, and Fermi 2
- Seismic qualification of drywell galleries anchored to shield wall for Clinton
- Qualification of reactor building air supply and return HVAC systems for Quad Cities 1 and 2
- Seismic capacity of containments under various operating and accidental loadings for Clinton, Zion, Fermi, and Sequoyah. Study sponsored by Sandia National Laboratories.

- Containment ultimate pressure capacity for Zion 1 and 2, Clinton 1, and Yonggwang 3 and 4 (Korea).
- Response spectra generation for subsystems due to pool dynamic loads for Clinton 1.
- Attenuation study of the response due to pool dynamic loads for Clinton 1.
- Seismic interaction analysis of components (equipment, raceways, HVAC systems, piping, and their supports) and clearance of field rattle space nonconformance reports for Clinton.

MEMBERSHIPS

American Society of Civil Engineers Society of Sigma Xi

PUBLICATIONS

"Seismic Capacity of Containments" Fourth Workshop on Containment Integrity, NUREG/ CP-0095, SAND 88-1836, Arlington, Virginia, June 1988

"Treating Potential Impact of Components in Nuclear Power Plants," The Energy Specialty Conference of the American Society of Civil Engineers, Atlantic City, New Jersey, April 1987

"Influence of Initial Gap and Ratios of Mass and Frequency of Component Seismic Interaction," ASME Pressure Vessel and Piping Conference, San Antonio, Texas, 1984

"Analysis of Interaction of Cable Trays, Piping, Conduits, and Their Supports in a Dynamic Event," 7th International Conference of Structural Mechanics in Reactor Technology, August 1983 "Ultimate Internal Pressure Capacity of Concrete Containment Structures," 7th International Conference of Structural Mechanics in Reactor Technology, August 1983

"Meridional Imperfection in Cooling Tower Design: Update," <u>Journal of the Structural Division</u>, American Society of Civil Engineers, August 1982

"Nonlinear Finite Element Analysis of Reinforced Concrete Containment Structures Subjected to Thermal Load," 5th International Conference on Structural Mechanics in Reactor Technology, Germany, August 1979

"Analysis of Containment Structures for Randomly Arriving Transient Loads," <u>Journal of Engineering Structures</u>, 1979

"Parametric Study on Containment Liner-Anchor System," <u>Journal of the Energy Division</u>, American Society of Civil Engineers, August 1979

"Meridional Imperfection in Cooling Tower Design," Journal of the Structural Division, American Society of Civil Engineers, June 1979

"Analysis of Containment Structures for Discretely Arriving Transient Loads," American Society of Mechanical Engineers Energy Technology Conference, Houston, Texas, September 1977

"Finite Element Method for Wood Mechanics," <u>Journal of the Structural Division</u>, American Society of Civil Engineers, March 1972

STEPHEN ANAGNOSTIS

EDUCATION:

B.S. - Civil Engineering, Columbia University School of Engineering, 1974

M.S. - Structural Engineering, Massachusetts Institute of Technology, 1976

PROFESSIONAL HISTORY:

Stevenson & Associates, Inc., Project Manager, 1983 - present

URS / John A. Blume & Associates, Engineers, Boston, Massachusetts, Project Engineer 1982 - 1983; Senior Engineer, 1980 - 1982

Charles Stark Draper Laboratory, Cambridge, Massachusetts, Technical Staff, 1976 - 1980; Draper Fellow, 1974 - 1976

PROFESSIONAL EXPERIENCE:

Mr. Anagnostis joined Stevenson & Associates in February 1983 as Project Manager of the Boston area office.

Mr. Anagnostis was extensively involved in both analysis (frequency domain and time domain structural dynamics) and testing (in-situ modal and full-scale shaking-table) at URS/Blume's Boston office. He had lead technical responsibility for a two year program to develop a seismic evaluation criteria for electrical raceway systems at eight of the oldest United States nuclear power stations. This program included the design, supervision, and data analysis of shaking-table tests of full-scale raceway systems, cyclic/fatigue tests of raceway components, and the development of analytical evaluation techniques incorporating the test results.

As a member of the technical staff of Charles Stark Draper Laboratory, Mr.Anagnostis was involved in the assessment of space based surveillance (infra-red and radar) and defense systems for the Defense Advanced Research Projects Agency. He was a major author of a software simulation system to assess the capabilities of spaced based optical systems including structural vibrations, control dynamics, and optical performance.

PROFESSIONAL GROUPS:

Committee, Working Group for the Analysis and Design of Electrical Cable Support Systems

Member, American Society of Civil Engineers Nuclear Structures and Materials



PUBLICATIONS AND REPORTS:

"Vibration Engineering in the Semiconductor Industry," with W. Djordjevic and T. M, Tseng, Test and Measurement World, May, 1984

"EDASP: Structural Modification Program," with W. Djordjevic and T. M. Tseng, Proceedings, Second International Modal Analysis Conference, Orlando, Florida (February 1984).

"Implementation of Software to Account for Equipment Modifications," with W. Djordjevic, C. Gangone, R. Jerkins and A. Marion, Transactions, ANS 1983 Winter Meeting, San Francisco, California (October 1983)

"Theory and Implementation of Analytical Tools to Calculate Response Changes in Equipment Previously Evaluated by Testing," with W. Djordjevic, Transactions, 7th International Conference on Structural Mechanics in Reactor Technology (August 1983)

"Seismic Evaluation of Electrical Raceway Systems," with W. Djordjevic and F. Elsabee, 1983 ASME Pressure Vessel and Piping Conference, Portland, Oregon (June 1983)

"Space Radar Large Aperture Simulation/Analysis," with F. Ayer, CSDL R-1413 (October 1980)

"Large Beam Expander Technology Design, Analysis and Simulation Development Program" (U), with K. Soosaar, et al., CSDL R-1224 (Secret), (April 1979)

"High Altitude Large Optics Integrated Simulations" (U). with K. Soosaar. et al., CSDL R-1286 (Secret), (July 1979)

"Passive and Active Suppression of Vibration Response in Precision Structures" (U), with K. Soosaar et al., CSDL R-889 (Secret) (February 1978)

"Optimal Actuator Locations for Mirror Surface Control," M.S. Thesis Massachusetts Institute of Technology (May 1976)



WALTER DJORDJEVIC

EDUCATION:

B.S. - Civil Engineering, University of Wisconsin at Madison, 1974

M.S. - Structural Engineering, Massachusetts Institute of Technology, 1976

REGISTRATION:

State of California, State of Wisconsin, Commonwealth of Massachusetts, State of Michigan

PROFESSIONAL HISTORY:

Stevenson & Associates, Inc., Vice President and General Manager of the Boston office, 1983 - present

URS/John A. Blume & Associates, Engineers, Boston, Massachusetts, General Manager, 1980 - 1983; San Francisco, California, Supervisory Engineer, 1979 - 1980

Impell Corporation, San Francisco, California, Senior Engineer, 1976 - 1979

Stone & Webster Engineering Corporation, Boston, Massachusetts, Engineer, 1974 - 1976

PROFESSIONAL EXPERIENCE:

Mr. Djordjevic founded the Stevenson & Associates Boston office in 1983 and serves as Vice President and General Manager of the Boston area office.

Mr. Djordjevic is expert in the area of dynamic qualification of electrical and mechanical equipment. He has participated in and managed over twenty major projects involving the evaluation and qualification of vibration sensitive equipment and seismic hardening of equipment. As demonstrated by his committee work and publications, Mr. Djordjevic has participated in and contributed steadily to the development of equipment qualification and vibration hardening methodology.

Mr. Djordjevic's previous walkdown experience included all of the SEP plants (8 plants), Nine Mile - Unit 1, D.C. Cook - Units 1 & 2, the Hanford Reservation Purex facility and the Savannah River Plant Reservation L-Reactor.

Representative projects include overseeing the SEP shake-table testing of electrical raceways, insitu testing of control panels and instrumentation racks at various nuclear facilities, equipment anchorage walkdowns and evaluations at various nuclear facilities, principal author of the CERTIVALVE software package to evaluate nuclear service valves, and contributing author in



the development of the ANCHOR and EDASP software packages commercially distributed by Stevenson & Associates.

Mr. Djordjevic has been involved extensively in the reassessment of safety-related equipment for commercial nuclear facilities and government U.S. Department of Energy facilities, for which he maintains an active Q-clearance status. He has served on advisory groups and review teams touring older existing nuclear facilities to assess safety and has performed earthquake reconnaissance at such installations following seismic events.

PROFESSIONAL GROUPS:

Member, Institute of Electrical and Electronics Engineers, Nuclear Power Engineering Committee Working Group SC 2.5 (IEEE-344)

Chairman, American Society of Civil Engineers Nuclear Structures and Materials Committee, Working Group for the Analysis and Design of Electrical Cable Support Systems

Member, American Society of Mechanical Engineers Operation, Application, and Components Committee on Valves, Working Group SC-5





CHARBEL M. ABOU-JAOUDE

EXPERTISE

Currently, Mr. Abou-Jaoude is working in a Technical Consultant role on the NUSCo A-46 project and the PECo IPEEE/A-46 effort.

Mr. Abou-Jaoude is a Manager in the Eastern Region's Boston Office Civil/Structural group, with a broad technical and managerial experience in the power industry. His areas of technical expertise are Structural Mechanics and Seismic Design; he has an in-depth knowledge of various industry codes/standards such as Sections III & XI of the ASME Code, ANSI B31.1, IEEE-344 and 382, various USNRC Reg. Guides and NUREG Reports, WRC Bulletins, AISC, and ACI-349. He is well versed in the Generic Implementation Procedure developed by the Seismic Qualification Utility Group for the resolution of USI-A-46, and the methodologies developed by the industry for the response to Generic Letter 88-20 as outlined in NUREG-1407; he has completed the SQUG/EPRI sponsored A.46 and Seismic IPEEE training courses. While at ABB Impell, he has lead the engineering efforts of various work scopes; his responsibilities have included: Criteria development, training and personnel development, project execution, interface with regulators and outside organizations, and overall project management.

Mr. Abou-Jaoude was the Assistant Project Manager for the Civil/Structural effort at TU Electric CPSES Unit 2 Project. He has primary management responsibility for the work of 80 engineers in the Electrical Raceways, Seismic Equipment Qualification, and Seismic II/I disciplines. This effort involves the design validation of existing Raceway designs, issuance of new designs, establishing the qualification basis of all BOP Seismic Cat 1 and NSSS C1E equipment, procurement of new and replacement equipment, structural evaluation of non seismic commodities using an A-46 walkdown based approach, and field engineering to support the completion and start-up of Unit 2.

Prior to his assignment at CPSES Mr. Abou-Jaoude was the Assistant Project Manager for the Secondary Water Chemistry Improvement Project at Consumers Power (Palisades). This project involved modifications to the existing blowdown system, the addition of various equipment items, and the installation of 2000 ft. of piping. The design effort was completed in a period of six months with a peak staff of 40 engineers; the design has been successfully implemented and its operation has provided improvements beyond the plant's initial expectations. In addition to this project he was involved in a number of projects for Consumers Power: He was the Project Engineer for consulting work related to the resolution of 79-14 piping and pipe support issues; he also was the Project Engineer for a modification to install a reactor head shielding which involved generating the amplified response spectra and performing the seismic analysis and qualification of the lifting ring/shielding structure.



CHARBEL M. ABOU-JAOUDE

Page One

EXPERTISE (Cont'd)

Mr. Abou-Jaoude has also worked on a number of piping and equipment qualification projects for Commonwealth Edison and Northern States Power. He was the Project Engineer for the development of criteria to evaluate integral welded attachments for Prairie Island; the completion of this effort provided successful closure of an NRC 79-14 issue.

Previously Mr. Abou-Jaoude lead a group of 18 engineers, working on the seismic qualification of BOP components, in support of a successful SQRT audit for TU Electric's Comanche Peak Station Unit 1. He was responsible for the technical adequacy, budget and schedule of the following scope:

- Preparation of summary packages and supporting calculations to demonstrate the seismic qualification of storage tanks, heat exchangers, pumps, valves, the diesel generator set, piping, and other electrical components (motors, battery racks, control panels, and instrumentation devices).
- Evaluation of mechanical equipment rerating, under Section XI of the ASME Code, for revised design conditions such as pressures, temperatures, nozzle loads, and or acceleration values (approx. 200 stress reports).

Mr. Abou-Jaoude was also involved in the Comanche Peak cable tray hanger design validation effort. He was a group lead responsible for qualifying cable tray systems. This required detailed dynamic analysis and evaluation of structural members and anchorages. He was involved in the development of criteria for modification reduction techniques. He also worked on the dynamic testing of full scale cable tray systems and provided analytical results for correlation with measured test data.

Prior to joining ABB Impell, Mr. Abou-Jaoude has worked in the Middle-East on the construction of several commercial and industrial reinforced concrete buildings. He has also worked as a field engineer responsible for the installation and maintenance of equipment at an automotive refurbishing plant in the United Arab Emirates.



CHARBEL M. ABOU-JAOUDE

Page Three

EDUCATION

M.S., Civil Engineering, December 1985 University of Michigan, Ann Arbor, Michigan

B.E., Mechanical Engineering, July 1984 American University of Beirut. Box 11 0236, Beirut, Lebanon

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers American Society of Mechanical Engineers Tau Beta Pi Honor Society Chi Epsilon Honor Society

PUBLICATIONS

Lee, B. J., Abou-Jaoude, C. M., and De Estrada, M., "Issues of Control Panel Rigidity in Seismic Qualification," Proc. of 1991 Pressure Vessels and Piping (PVP) Conference, Vol. 220.

Lee, B. J., and Abou-Jaoude, C. M., "Effect of Base Uplift on Dynamic Response of Electrical and Mechanical Equipment," Proc. of 1992 Pressure Vessels and Piping (PVP) Conference, Vol. 237-2.

APPENDIX C SEISMIC VERIFICATION DATA SHEETS

1/28/94 5:05 PM

Omaha Public Power Dis. SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bidg	FI EI.	Rr	n or Rw/Cl	Base El.	<40'?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
3	1A3	0	EPS / 4 16KV AC BUS	AUX	1016.00	AB056	11WC-18N'1	1007.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
3	1A4	0	EPS / 4 6KV AC BUS	AUX	1016.00	AB056A	, 15W'C-18N'1	1007.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	A/LT-911	0	ESCS / *STEAM GENERATOR RC-2A ; WIDE RANGE LEVEL TRANSMITTER	CONT	1002.00	CONT	8WDD-8N'II	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	A/LT-912	0	ESCS / *STEAM GENERATOR RC-2B; WIDE RANGE LEVEL TRANSMITTER	CONT	1000.00	CONT	9WEE-39NIII	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	A/PT-120	0	RC / PZR PRESSURE	CONT	1018.00	CONT	18WDD-12NII	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	A/PT-913	0	ESCS / *STEAM GENERATOR RC-2A ; WIDE RANGE LEVEL TRANSMITTER	CONT	1002.00	CONT	, 8WDD-7N'II	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	A/PT-914	0	ESCS / *STEAM GENERATOR RC-2B ; WIDE RANGE PRESSURE TRANSMITTER	CONT	1000.00	CONT	9WEE-39NIII	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
19	A/TE-112C	0	RC / RCS TEMPERATURE ELEMENT	CONT	1008.00	CONT	10WBB-26NII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
19	A/TE-112H	0	RC / RCS TEMPERATURE ELEMENT	CONT	1008.00	CONT	, 24WBB-25NII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
19	A/TE-122C	0	RC / RCS TEMPERATURE ELEMENT	CONT	1010.00	CONT	, 18WCC-18NII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
19	A/TE-122H	0	RC / RCS TEMPERATURE ELEMENT	CONT	1008.00	CONT	, 2WCC-18NIII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
20	Al-196	0	PNL/	AUX	1013.00	AB057	19W'D-15N'3	1007.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-197	0	RC /	AUX	1011.00	AB056	OWD-ON'7A	1007.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	Al-198	0	RC /	AUX	1013.00	AB057	, 19W'D-17N'3	1007.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	Al-199	0	PNL/	AUX	1011.00	AB056	, 0W'D-12N'6D	1007.00	Yes	BS	GRS	Yes	No	Yes	No	No
18	B/LT-911	0	ESCS / *STEAM GENERATOR RC-2A ; WIDE RANGE LEVEL TRANSMITTER	CONT	1011.00	CONT	, 15WCC-3N'I	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	B/LT-912	0	ESCS / *STEAM GENERATOR RC-2B ; WIDE RANGE LEVEL TRANSMITTER	CONT	1002.00	CONT	, 14WCC-8N'I	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	B/PT-120	0	RC / PZR PRESSURE TRANSMITTER	CONT	1019.00	CONT	. 15WCC-4N'I	1013.00	-	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	B/PT-913	0	ESCS / *STEAM GENERATOR RC-2A; WIDE RANGE PRESSURE TRANSMITTER	CONT	1011.00	CONT	, 15WCC-3N'I	1013.00		BS	GRS	Yes	Yes	Yes	Yes	Yes
18	B/PT-914	0	ESCS / *STEAM GENERATOR RC-2B; WIDE RANGE PRESSURE TRANSMITTER	CONT	1002.00	CONT	, 14WCC-8N'I	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

Certification:

(whether verified to be seismically adequate or not).

All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our The information provided to the Seismic Capability Engineers regarding systems and operations of knowledge and belief, correct and accurate. "All information" includes each entry and conclusion the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate.

required; there should be atleast two on the SRT. All signatories should agree with all the entries. Engineers deem it necessary.) and conclusions. One signatory should be a licensed professional engineer.)

W. Djordjevic (S&A)	1 10111	12/2/941			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD)	Closeph K. Matho	W12/2/941			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
	1	1 1			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date



J. K. Mathew (OPPD)

Print or Type Name

Print or Type Name

Signature



Date

Date

Signature

Signature

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Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bidg.	FI EI.	Rm or Rw/Cl	Base El.	<40'7	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	OK	OK?
19	B/TE-112C		RC / RCS TEMPERATURE ELEMENT	CONT	1008.00	CONT . 20WCC-26NII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
19	B/TE-112H			CONT	1008.00	A STATE OF THE PARTY OF THE PAR	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
19	B/TE-122C		RC / RCS TEMPERATURE ELEMENT	CONT	1008.00		1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
19	B/TE-122H			CONT	1008.00		1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
20	CB-10.11	The second second	MS /	AUX	1036.00	The state of the s	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AUX	1													
10	DW-46A-2	0	ccw/	AUX	1025.00	AB069 , 39WT-6N'6A	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	DW-46B-2			AUX	1025.00		1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
14	EE-8F		EPS / DC BUS 1	AUX	1011.00	AB056 , 9W'C-0N'7A	1025 00	N/A	ABS	RRS	Yes	Yes	No	Yes	No
14	EE-8G	0	EPS / DC BUS	AUX	1011.00	AB056A , 16W'C-0N'7A	1007.00	N/A	ABS	RRS	Yes	Yes	No	Yes	No
7	HCV-1107A	0	AFWS / STEAM GENERATOR RC-2A ; AUXILIARY FEEDWATER INLET VALVE	CONT	1050.00	CONT , 15WBB-9N'I	1045.00	Yes	BS	GRS	Yes	Yes	N/A	No	No
7	HCV-1108A	0	AFWS / STEAM GENERATOR RC-2B; AUXILIARY FEEDWATER INLET VALVE	CONT	1050.00	CONT , 14WBB-31NII	1045.00	Yas	BS	GRS	Yes	Yes	N/A	No	No
7	HCV-1387A	0	FWS / RC-2B BLOW DOWN ISOLATION VALVE	CONT	998.00	CONT , 13WBB-7N'I	1013 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1388A	0	FWS / RC-2A BLOW DOWN ISOLATION VALVE	CONT	998.00	CONT , 24WAA-0N'I	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-150	0	PPC / PRESSURIZER RC-4 ; RELIEF	CONT	1047.00	CONT , 4WDD-10N'I	1045.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-151	0	PPC / PRESSURIZER RC-4, RELIEF ISOLATION VALVE	CONT	1047.00	CONT , 21WCC-8N'I	1045.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-240	0	CVCS / PRESSURIZER RC-4; AUXILIARY SPRAY INLET VALVE	CONT	1045.00	CONT , 14WDD-6N'I	1045.00	Yes	BS	GRS	Yes	No	N/A	Yes	No
7	HCV-249	0	CVCS / PRESSURIZER RC-4 , AUX SPRAY INLET VALVE HCV-240	CONT	1045.00	CONT , 18WDD-12NII	1045.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2504A	0	SL-PRI/	CONT	1018.00	CONT , 6WEE-0N'IV	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
All th know (whe	ledge and beli ther verified to oved: (Signatured; there show	be se res of uld be	ined on this Screening Verification Data Cheet (Storrect and accurate "All information" includes eleismically adequate or not). If all Seismic Capability Engineers on the Seismic e atleast two on the SRT. All signatories should gratory should be a licensed professional angineer.	Review Team agree with all	conclusion (SRT) are	the equipment contains accurate. Approved: (One signate	ed in the Sure of System	SVDS i	s, to th	e best o	of our kn	owledge	and belie	ef, correc	ct and
requi	conclusions. Or	ne sig	4 11/4	21.	101										
requi	w. Djordje		1/1/4	1 2/2	94	Print or Type					Signature		1	Date	

Date

Print or Type Name

Print or Type Name



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	Didg.		<40'?	Cap. Spec	Demd Spec	Cap > Demd?	Caveats OK?	OK?	OK	OK?
7	HCV-2859	1	CCW / CEDM SEAL COOLING FLOW CONTROL VALVE	CONT	1016.00	CONT , 15WAA-6NII			BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-400A	0	CCW / CNTMT VA-1A COOLING COIL ; CCW	AUX	1027.00	AB069 , 8WN-6N'6B	1025.00		BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-400B	0	CCW / CNTMT VA-1A COOLING COIL ; CCW	AUX	1030.00	AB069 , 9E'P-8N'6C	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-400C	0	CCW / CNTMT VA-1A COOLING COIL ; CCW	AUX	1027.00	AB069 , 8WP-3N'6C	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-400D	0	CCW / CNTMT VA-1A COOLING COIL ; CCW OUTLET VALVE	AUX	1031.00	AB069 , 9WP-10N'60	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-401A	0	CCW / CNTMT VA-1B COOLING COIL ; CCW	AUX		AB069 , 7E'P-3N'6C	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-401B	0	CCW / CNTMT VA-1B COOLING COIL ; CCW	AUX		AB069 , 7E'P-8N'6C	1025 00		BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-401C	0	CCW / CNTMT VA-1B COOLING COIL ; CCW OUTLET VALVE	AUX	1027 00	AB069 , 10WP-5N'60	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-401D	0	CCW / CNTMT VA-1B COOLING COIL , CCW OUTLET VALVE	AUX	1031.00	AB069 , 10WP-12N'6			BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-4J2A	0	CCW / CNTMT VA-8A COOLING COIL ; CCW	AUX	1027.00	AB069 , 3E'P-3N'6C	1025.00		BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-402B	0	CCW / CNTMT VA-8A COOLING COIL ; CCW	AUX	1030.00	AB069 , 3E'P-8N'6C	1025.00		BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-402C	0	CCW / CNTMT VA-8A COOLING COIL ; CCW OUTLET VALVE	AUX	1027.00	AB069 , SWP-5N'6C			BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-402D	e	CCW / CNTMT VA-8A COOLING COIL ; CCW OUTLET VALVE	AUX		AB069 . 5WP-10N'6			BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-403A	0	CCW / CNTMT VA-8B COOLING COIL ; CCW	AUX	1027.00	AB069 , 0WP-3N'6C	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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IA: Diardiania (CRA)	1 1/1/41	1 2/2/94 1			
W. Djordjevic (S&A) Print or Type Name	Signatuse	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD) Print or Type Name	Joseph H. Mark	W 12/2/94 1	Print or Type Name	Signature	Date
Print of Type Items			1		1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date



Omaha Public Power Dis. .. SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EL			Base El	<40'?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact	OK?
7	HCV-403B	0	CCW / CNTMT VA-8B COOLING COIL; CCW	AUX	1030.00	AB069	, 1E'P-8N'6C	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-403C	0	CCW / CNTMT VA-8B COOLING COIL ; CCW OUTLET VALVE	AUX	1027.00	AB069	, 2WP-3N'6C	1025.00	Yes	BS	GRS	Yes	Yes	N/A	No	No
7	HCV-403D	0	CCW / CNTMT VA-8B COOLING COIL ; CCW OUTLET VALVE	AUX	1031.00	AB069	, 1WP-8S'7A	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-438A		CCW / RCP RC-3A-D LUBE OIL & SEAL CLRS; CCW INLET INBOARD VALVE	CONT	994.00	CONT	, 8WBB-37NIII	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-438C	0	CCW / RCP RC-3A-D LUBE OIL & SEAL CLRS; CCW OUTLET INBOARD VALVE	CONT	994.00	CONT	, 6WCC-0N'IV	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-442	0	CCW / RCP RC-3A SEAL COOLER , CCW OUTLET VALVE	CONT	995.00	CONT	, 1WBB-10N1	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-443	0	CCW / RCP RC-38 SEAL COOLER; CCW OUTLET VALVE	CONT	995.00	CONT	, 0WBB-15N'I	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-444	0	CCW / RCP RC-3C SEAL COOLER ; CCW OUTLET VALVE	CONT	995.00	CONT	, 0WCC-0N'IV	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-445	0	CCW / RCP RC-3D SEAL COOLER ; CCW OUTLET VALVE	CONT	995.00	CONT	, 15WBB-0N'I	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	LCV-101-1	0	CVCS / AIR-OPERATED VALVE LCV-101-1	CONT	997.00	CONT	, 9WEE-17NIII	994.00	Yes	BS	GRS	Yes	No	N/A	Yes	No
7	LCV-101-2	0	CVCS / AIR-OPERATED VALVE LCV-101-2	CONT	997.00	CONT	, 10WEE-20NII	994.00	Yes	BS	GRS	Yes	No	N/A	Yes	No
8	LCV-218-2	0	CVCS / VCT OUTLET VALVE	AUX	1010.00	AB029	. 43WT-24N'7	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
18	LT-101X	0	RC / PRESSURIZER LEVEL TRANSMITTER	CONT	1013.00	CONT	, 15WCC-3N'I	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	LT-101Y	0	RC / PRESSURIZER LEVEL TRANSMITTER	CONT	1013.00	CONT	, 18WDD-14NII	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
0	NE-001		PNL / WIDE RANGE LOGARITHMIC NUCLEAR DETECTOR	CONT	1000.00	CONT	, 18WBB-ONIII	1013.00		DOC	RRS	Yes	Yes	Yes	Yes	Yes
0	NE-004	0	PNL / WIDE RANGE LOGARITHMIC NUCLEAR DETECTOR	CONT	1000 00	CONT	, 18WBB-0NIII	1013.00	N/A	DOC	RRS	Yes	Yes	Yes	Yes	Yes

Certification:

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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD) Print or Type Name	Signature Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Oscal to Mathan	Date	Print or Type Name	Signature	Date
W. Djordjevic (S&A)	1 /1/40	2/2/94			



Omaha Public Power Dist. SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bidg	FIEL	R	m or Rw/CI	Base El.	<40"?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchur OK?	Interact OK	Equip OK?
18	PT-105	-	RC / PRESSURIZER PRESSURE TRANSMITTER	CONT	1003.00	CONT	, 14WCC-2N1	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PT-115	0	RC / PRESSURIZER PRESSURE TRANSMITTER	CONT	1013.00	CONT	, 15WCC-3N'I	1013.00		BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PT-499		RWS / COMPONENT COOLING PUMP DISCHARGE PRESSURE	AUX	1029.00	AB069	, 1WN-0N'8A	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
7	RC-141	0	PPC / PRESSURIZER RC-4 RELIEF VALVE	CONT	1049.00	CONT	, 9W/DD-22N1	1045.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	RC-142		PPC / PRESSURIZER RC-4 RELIEF VALVE	CONT	1049.00	CONT	, 2W'DD-22N'I	1045.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
0	RC-4-HTRS-		EPS / PZR BACKUP HEATER GROUP	CONT	1047.00	CONT	, 6W/DD-19N'I	1045 00	Unk	Unk	Unk	Unk	Unk	Yes	Yes	Unk
0	RC-4-HTRS-	0	EPS / PZR BACKUP HEATER GROUP	CONT	1047.00	CONT	, 6WDD-19N1	1045.00	Unk	Unk	Unk	Unk	Unk	Yes	Yes	Unk
0	RC-4-HTRS-	0	EPS / PZR BACKUP HEATER GROUP	CONT	1047.00	CONT	, 6W/DD-19N'I	1045.00	Unk	Unk	Unk	Unk	Unk	Yes	Yes	Unk
10	SI-4A	0	LPSI/S.I. TANK LEAKAGE COOLER	CONT	1020.00	CONT	, 15WDD-20NH	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	SI-4B	0	LPSI / S.I. TANK LEAKAGE COOLER	CONT	1014.00	CONT	, 6W'BB-30N'I	1013.00	Y 25	85	GRS	Yes	Yes	Yes	Yes	Yes
10	SI-4C	0	LPSI/S.I. TANK LEAKAGE COOLER	CONT	1013.00	CONT	, 14WEE-12NII	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	SI-4D	0	LPSI/S.I. TANK LEAKAGE COOLER	CONT	1014.00	CONT	. 8WBB-12NIII	1013.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	VA-14A	0	CCW/	CONT	994.00	CONT	, 19WAA-33NII	994.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	VA-14B	-	CCW/	CONT	994.00	CONT	, 15WAA-14NII	994.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

	tif			

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W. Djordjevic (S&A) Print or Type Name	Signature	2/2/94 Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD) Print or Type Name	1 Joseph K./ Mathew Signature	12/194 1 bate	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power Dist... SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FIEL	Rr	n or Rw/CI	Base El	<40'?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
2	183A	A.zes	EPS / MAIN SECONDARY : 480 BUS 1835	AUX	1011.00	AB056	10WC-21N'5	1007.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
2	183B		EPS / MAIN SECONDARY : BREAKER	AUX	1011.00	-	10WC-9N'5B	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	1838-48	-	EE-4B / 480V DISTRIBUTION BUS	AUX	1011.00			1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	1B3C		EPS / BREAKER SUPPLY TO BUS 1B3C FROM XFORMER TIB-3C	AUX	-		10WC-10N'4	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	1B3C-4C	0	EE-4B / 480V DISTRIBUTION BUS	AUX	1011.00	AB056		1007.00	Yes	BS	CRS	Yas	Yes	Yes	Yes	Yes
2	1B4A	-	EPS / MAIN SECONDARY : 480 BUS 184A	AUX	1011.00	AB056A	, 10E'D-15S'7	1007.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
2	1B4B	-	EPS / MAIN SECONDARY : 480 BUS 1848	AUX	1011.00	AB056A	, 10E'D-12N'5	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	1B4C		EPS / MAIN SECONDARY : 480 BUS 1B4C	AUX	1011.00	AB056A	, 15WC-4N'4D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	A/PC-742-1		ESCS / CONTAINMENT PURGE EXHAUST ; PRESSURE SWITCH	AUX	1012 00	AB059	, 12WP-14N'6	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	A/PC-742-2	0	ESCS / CONTAINMENT PURGE EXHAUST ; PRESSURE SWITCH	AUX	1012.00	AB059	10WP-14N'6	1025 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	AC-3A	0	CCW / COMPONENT COOLING WATER PUMP AC-3A	AUX	1027.00	AB069	1WN-9N'7A	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	AC-3B	0	CCW / COMPONENT COOLING WATER PUMP AC-3B	AUX	1027.00	AB069	1WN-4S'8A	1025 00	Yes	BS	GRS	Yes	Yes	Yes	No	No
5	AC-3C	0	CCW / COMPONENT COOLING WATER PUMP AC-3C	AUX	1027.00	AB069	, 1WN-3N'8A	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AC-DC-1	0	EPS /	AUX	1036.00	AB077	, 25W°C-12N′6	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AC-DC-2	0	CVCS /	AUX	1036.00	AB077	, 12W°C-12N'6	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-106A	0	PNL /	AUX	1036.00	AB077	, 5N'6D-0N'D	1036 00	Yes	BS	GRS	Yes	Yes	Yes	No	No
20	AI-106B	0	PNL/	AUX	1036.00	AB077	, 5W6D-8N'D	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-108A	0	1	AUX	1011.00	All Loca	tions	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-109B	0	EPS /	AUX	1014.00	ABG56	, 0WC-24N'3A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-10B	0	EPS!	AUX	1036.00	AB077	, 5WD-9N'7A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-12	0	FWS /	AUX	1036.00	AB077	, 5W'D-16N'7A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-133A	0	EPS / PANEL AI-133A	AUX	1007 00	AB063	, 3WD-5N'1A	1007 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
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	Print or Ty		ame Signature				Print or Type N	dillo	- 1		3	gnature		1	Date	
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Omaha Public Power Distant SCREENING VERIFICATION DATA SHEET (SVDS)



Eq. CI	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact	Equip OK?
20	AI-133B	0	EPS / PANEL AI-133B	AUX	1007.00	AB064 , 3WD-26N'1A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	Al-179	0	FWS /	AUX	1013.00	AB057 , 19W'D-18N'4	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	Al-185	0	PNL/	AUX	1013.00	AB057 , 19W'D-15N'4	1007 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-212	0	PNL /	AUX	1013.00	AB057 , 19WD-20N'4	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	A1-22	0	EPS/	AUX	1036.00	AB077 , 6WD-4N'8A	1035.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-23A	0	EPS/	AUX	1036.00	AB077 , 6W/D-25N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-24	0	EPS/	AUX	1036.00	AB077 , 6W'D-8N'8A	1036.00	Yes	88	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-24A	0	7	AUX	1036.00	All Locations	1036 00	Yes	es	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-25	0	EPS/	AUX	- Anna	AB077 , 6WD-10N'8A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-25A	0	EPS /	AUX	1036 00	AB077 . 6WD-25N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-26A	0	7	AUX	1036 00	All Locations	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	A1-3	0	RPS /	AUX	1036 00	AB077 , 2WE-0N7A	1036 00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-30A(D1)	0	EPS /	AUX	1036 00	AB077 , 4W'C-22N'7A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-30A(ESF)	0	PNL/	AUX	1036 00	AB077 , 4WC-22N7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-30A(S1-1)	0	PNL/	AUX	1036.00	AB077 , 4WC-22N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-30A(S1-2)	0	EPS /	AUX	1036.00	AB077 , 4WC-22N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-30B(D2)	0	EPS /	AUX	1036.00	AB077 . 4WC-18N'7A	1036 00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-30B(ESF)	0	PNL /	AUX	1036.00	AB077 , 4WC-18N'7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-30B(\$2-1)	0	EPS/	AUX	1036 00	AB077 . 4WC-18N'7A	1035.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-30B(S2-2)	0	EPS /	AUX	1036.00	AB077 , 4WC-18N'7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	Al-31A	0	PNL/	AUX	1036.00	AB077 , 4W'C-10N'7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-31B	0	RPS /	AUX	1036.00	AB077 , 4WC-7N'7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-31C	0	RPS /	AUX	1036.00	AB077 , 4WC-4N'7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-31D	0	RPS /	AUX	1036.00	AB077 , 4WC-2N7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	A1-33A	0	ESCS / CONTAINMENT STACK MONITOR	AUX	1036.00	AB077 , 4WC-12N'6D	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-33B	0	ESCS / IODINE STACK MONITOR	AUX	1036 00	AB077 , 4WC-10N'6D	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-34	0	PNL/	AUX	1036.00	AB077 , AI-34	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

Certification:

Certification:

All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our. The information provided to the Seismic Capability Engineers regarding systems and operations of (whether verified to be seismically adequate or not).

knowledge and belief, correct and accurate. "All information" includes each entry and conclusion the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate.

Approved: (Signatures of all Seismic Capability Engineers on the Seismic Review Team (SRT) are Approved: (One signature of Systems or Operations Engineer is required if the Seismic Capability required; there should be atleast two on the SRT. All signatr ries should agree with all the entries. Engineers deem it necessary.) and conclusions. One signatory should be a licensed professional engineer.)

R. P. Kennedy (RPK)	1/Colonit V- Ken	Web 2/2941			
Print or Type Name	Signature /	Date	Print or Type Name	Signature	Date
J K Mathew (OPPD)	1 Yoseph K. Mat	(ew 2/7/94 1			
Print or Type Name	/ Signature	Date	Print or Type Name	Signature	Date
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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Print or Type Name

Signature

Omaha Public Power District - , Callahoun Station SCREENING VERIFICATION DATA SHEET (SVDS)



Date

Signature

Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	R	n or Rw/CI	Base El	<40'?	Cap. Spec	Demd Spec	Cap > Demd?	Caveats OK?	Anchor OK?	interact	Equip OK?
CI	AL OF	No	IONII /	AUX	1036.00	AB077	AL-35	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-35	A STATE OF THE PARTY AND ADDRESS.	PNL /	AUX	_	E	15WD-11N'6	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	A1-40A		EPS / 120V A-C INSTRUMENT ; BUS A	AUX	and the second second second		15N'D-5N'7A	1036.00	-	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-40B		EPS / 120V A-C INSTRUMENT ; BUS B	AUX			15WD-4N'8A	1036.00	-	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	Al-40C		EPS / 120V A-C INSTRUMENT ; BUS C		-	-	15WD-10N'8	1036 00	Yes	BS	GRS	Yes	No	Yes	Yes	No
20	AI-40D		EPS / 120V A-C INSTRUMENT; BUS D	AUX		-		1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	Al-41A		EPS / 125V DC ; BUS NUMBER 1	AUX		-	, 15WD-0N7A	-	-	BS	GRS	Yes	No	Yes	Yes	No
29	Al-41B		EPS / 125V DC; BUS NUMBER 2	AUX		CONTRACTOR DESIGNATION	. 15WD-8N'8A	1036.00	Yes		GRS	Yes	Yes	Yes	Yes	Yes
20	AI-42A		EPS /	AUX	1036.00	Programme Control of the Control of	. 15W/D-2N'7A	1036.00	-	BS		-	-	Yes	Yes	Yes
20	AI-42B	0	EPS / 120V A-C INSTRUMENT ; BUS NUMBER 2	AUX	1036.00	AB077	, 15WD-6N'8A	1036 00	Yes	BS	GRS	Yes	Yes			
20	AI-43A	10	PNL/	AUX	1036.00	AB077	, 4WC-8N'8A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	Al-43B	-	PNL /	AUX	1036.00	AB077	4W'C-6N'8A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-44		PNL /	AUX	1036.00	AB077	. 15W'D-0N'8A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-45		CCW/	AUX	1036.00	AB077	. 15WD-7N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-4A		PNL/	AUX	1035.00	AB077	. 18WC-12N'6	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	res
20	AI-4B		RC /	AUX	1036.00	AB077	. 20WC-12N'6	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-54B		FP /	AUX	1036.00	AB077	2WE-20N'7A	1036 00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-56	-	EPS /	AUX			. 2WE-10N'7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	AI-66A		AFWS /	AUX		-	. 17W'C-14N'8	1036.00	-	BS	GRS	Yes	Yes	Yes	Yes	Yes
	AI-66B		AFWS /	AUX		AB077	14WC-14N'8	1036 00	-	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	-		EPS / DIESEL D1 480 V AC AUTO	AUX	- Annual Contraction	L-	. 2WD-0N'1A	1007 00	-	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	ATA-D1		TRANSFER SW					1007.00		BS	GRS	Yes	Yes	Yes	Yes	Yes
20	ATA-D2		EPS / DIESEL D2 480 V AC AUTO TRANSFER SW	AUX			, 3WD-0N'2A									
20	ATD-D1	0	EPS / DG1 125VDC AUTO XFER SWITCH (NORM FEEDER)	AUX	1013.00	AB063	, 7WD-12N'1A	1007.00		BS	GRS	Yes	Yes	Yes	Yes	Yes
20	ATD-D2	0	EPS / DG2 125VDC AUTO XFER SWITCH (NORM FEEDER)	AUX	1013.00	AB064	, 8WD-0N'2A	1025 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
Certifi	cation:	1		Prince of		Certific	ation									
knowl (wheth	edge and bel ner verified to	be se	ined on this Screening Verification Data Sheet (Sorrect and accurate. "All information" includes eleismically adequate or not).	each entry and	conclusion	the equacurat	ipment containe e.	ed in the	SVDS	s, to th	e best	of our kr	nowledge	and beli	et, corre	ct and
requir	ed, there sho enclusions. O	uld be	f all Seismic Capability Engineers on the Seismi e atleast two on the SRT. All signatories should gnatory should be a liceased professional engine	agree with all er.)	(SRT) are the entries	Approv	ed: (One signatu ers deem it nece	ire of Systessary)	ems or	Operat	ions Eng	gineer is	required i	f the Sei	smic Cap	abilit)
	R. P. Kenn	edy	(RPK) //oCe/ / None Signature	4 12	12/99											
	Print or T	ype N	Signature Signature	then 12/	Date		Print or Type !	Name			S	Signature			Date	
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	J. K. Mathe	ew (C	OPPD) YOSEND K 11/19	100m 1011	117		Print or Type I					Signature	-		Date	

Date

Print or Type Name



Omaha Public Power Dist. SCREENING VERIFICATION UATASHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg	FIEL	R	n or Rw/Cl	Base El.	<40'?	Cap. Spec	Demd Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
18	B/PC-742-1	0	ESCS / CONTAINMENT PURGE EXHAUST ; PRESSURE SWITCH	AUX	1012.00	AB059	16WN-14N'6	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	B/PC-742-2	0	ESCS / CONTAINMENT PURGE EXHAUST ;	AUX	1012.00	AB059	14WN-14N'6	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	C/PC-742-1	0	ESCS / CONTAINMENT PURGE INLET ; PRESSURE SWITCH	AUX	1012.00	AB059	6WP-14N'6D	1025 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	C/PC-742-2	0	PRESSURE SWITCH	AUX	1012.00	AB059	4WP-14N'6D	1025 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	CB-1,2,3	0	ESCS / PANEL	AUX	1036.00	AB077	18WC-1N'7A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	CB-10,11	0	AFWS /	AUX	1036.00	AB077	2WD-18N'7A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	CB-4	0	PNL /	AUX	1036.00	AB077	0WD-4N7A	1036.00	Yes	BS	GRS	Yes	No	Yes	No	No
20	CB-4 AUX	0	CB/	AUX	1036.00	AB077	2WD-0N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	D/PC-742-1	0	ESCS / CONTAINMENT PURGE INLET ; PRESSURE SWITCH	AUX	1012.00	AB059	8WN-16N'6D	1025 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	D/PC-742-2	0	ESCS / CONTAINMENT PURGE INLET ; PRESSURE SWITCH	AUX	1012.00	AB059	6WP-14N'6D	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	D1	0	EPS / LOCAL CONTROL PANEL	AUX	1010.00	AB063	. 2E'K-5N'1A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	D2	0	EPS / LOCAL CONTROL PANEL	AUX	1010.00	AB064	. 2E'K-22N'1A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	EE-4N	0	EPS/INVERTER A : BYPASS TRANSFORMER	AUX	1011.00	AB056	, 6WC-8N'6D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	EE-4P	0	EPS / INVERTER B ; BYPASS TRANSFORMER	AUX	1011.00	AB056A	, 20WC-5N'6D	1007 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	EE-4Q	0	EPS / INVERTER C ; BYPASS TRANSFORMER	AUX	1011.00	AB056	, 6WC-5N'6D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	EE-4R	0	EPS / INVERTER D ; BYPASS TRANSFORMER	AUX	1011.00	AB056A	, 20WC-3N'6D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	EE-4S	0	EPS / 480VAC/120VAC TRANSFORMER	AUX	1011.00	AB056	. 0WC-11N'6D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

Certification

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Certification:

knowledge and belief, correct and accurate. "All information" includes each entry and conclusion the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate.

required; there should be atleast two on the SRT. All signatories should agree with all the entries. Engineers deem it necessary.) and conclusions. One signatory should be a licensed professional engineer.)

R P Kennedy (RPK) Print or Type Name	I Torral Signature	G 1 2 /2/941 Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD) Print or Type Name	Goseph M. Mathe	w 12/194 1	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power District SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FIEL	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
4	EE-4T		EPS / INVERTER NUMBER 2 EE-8Q; BYPASS TRANSFORMER	AUX	1011.00	AB056A , 0WD-3N'6D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
15	EE-8A	0	EPS / 125 VDC STATION BATTERY NO. 1	AUX	1012.00	AB054 . 9WC-15N7B	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
15	EE-8B	0	EPS / 125 VDC STATION BATTERY NO. 2	AUX	1012.00	AB055 , 0WD-12N'7B	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
16	EE-8C	0	EPS / 125V DC BATTERY CHARGER ; NUMBER 1	AUX	1011.00	AB056 , 9W'C-13N'6D	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
15	EE-8D	0	EPS / 125V DC BATTERY CHARGER; NUMBER 2	AUX	1011.00	AB056A , 16W/C-14N/6	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
16	EE-8E	0	EPS / 125V DC BATTERY CHARGER ; NUMBER 3	AUX	1011.00	AB056A , 0WD-0N'7A	1007.00	N/A	ABS	RRS	Yes	Yes	Vas	Yes	Yes
16	EE-8H	0	EPS / 125V DC/125V AC ; STATIC INVERTER	AUX	1011.00	AB056 , 7WC-6N'6D	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
16	EE-8J	0	EPS / 125V DC/125V AC , STATIC INVERTER B	AUX	1011.00	AB056A , 18W/C-9N/60	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
16	EE-8K	0	EPS / 125V DC/125V AC ; STATIC INVERTER	AUX	1011.00	AB056 , 6W'C-5N'6D	1007.00	N/A	ABS	RRS	Ye.	res	Yes	Yes	Yes
16	EE-8L	0	EPS / 125V DC/125V AC ; STATIC INVERTER D	AUX	1011.00	AB056A , 18WC-6N'6E	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
16	EE-8P	0	EPS / 125VDC/120VAC INVERTER	AUX	1011.00	AB056 , 1WC-20N'6D	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
16	EE-8Q	0	EPS / INVERTER NUMBER 2	AUX	1011.00	AB056A . 18WC-2N'60	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
20	GE/MAC	0	AFWS /	AUX	1036.00	AB077 , 5WD-11N'7A	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	GM-1	0	RC /	AUX	1036.00	AB077 , 22WC-12N'6	1036 00	Yes	BS	GRS	No	No	Yes	Yes	No
20	GM-2	0	CCW/	AUX	1036.00	AB077 , 14WC-12N'6	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
1	MCC-3A1	0	EPS / MOTOR CONTROL CENTER 3A1	AUX	1013.00	AB057 , 2WD-14N'4A	1007 00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
1	MCC-3B1	0	EPS / MOTOR CONTROL CENTER ; FED FROM 1B3B-2	AUX	1013 00	AB057 , 2WD-5S'4A	1007.00	N/A	ABS	RRS	Yes	Yes	No	Yes	No
1	MCC-3C1	0	EPS / MOTOR CONTROL CENTER ; FED FROM 183C-1	AUX	1013.00	AB057 , 2W'D-10N'3A	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes

Certification:

Certification.

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R. P. Kennedy (RPK)	Kobat F. Remode	12/2/941			A Land
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J K Mathew (OPPD)	Coseph 11. Mathew	12/2/941			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
	1	1 1			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

1/28/94 4:58 PM

Omaha Public Power Dis... SCREENING VERIFICATION DATA SHEET (SVDS)



Eq. CI	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	Rn	n or Rw/CI	Base El	<40'?	Cap. Spec	Demd Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
1	MCC-4A1		EPS / MOTOR CONTROL CENTER; FED FROM 1B4A-2	AUX	1013.00	AB057 .	10WD-14N'4	1007.00	N/A	ABS	RRS	Yes	Yes	No	No	No
1	MCC-481	0	EPS / ELEC PENET ROOM EL 1013, COL E/4A	AUX	1013.00	AB057 ,	10W/D-0N'4A	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
1	MCC-4C1		EPS / MOTOR CONTROL CENTER ; FED FROM 184C-2	AUX	1013.00	AB057 ,	10WD-10N'3	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	No	No
20	NM-004		PNL / INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AUX	1018.00	AB057 .	24WD-17N'4	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	NT-004	3 -	PNL / INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AUX	1018.00	AB057 .	3WF-16N'4A	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
11	SL-51	1 -	CCW / REMOTE CHILLER-STEAM GENERATOR BLOWDOWN	AUX	1007.00	AB060 ,	23WP-0N'6E	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	T1B-3A	0	EPS / TRANSFORMER T18-3A	AUX	1011.00	AB056 .	7WC-0N'6D	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	T1B-3B	0	EPS / TRANSFORMER T1B-3B	AUX	1011.00	AB056 .	7WC-0N'5B	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	T1B-3C	0	EPS / TRANSFORMER T1B-3C	AUX	1011.00	AB056 ,	7W'C-17N'4A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	T1B-4A	0	EPS / TRANSFORMER T1B-4A	AUX	1011.00	AB056A	, 20WC-30N'5	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	T1B-4B	0	EPS / TRANSFORMER T1B-4B	AUX	1011.00	AB056A	, 20WC-0N'5B	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
4	T1B-4C	0	EPS / 4160/480 TRANSFORMER BUS 1B4C	AUX	1011.00	AB056A	, 20W'C-14N'4	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	YIT-6286A	0	TM /	AUX	1040.00	AB077 .	4WE-0N'6D	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	YIT-6286B	0	TM /	AUX	1040.00	AB077	10WD-0N'6D	1044 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	YIT-6288A	0	TM/	AUX	1040.00	AB077	2WE-0N'6D	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	YIT-6288B	0	TM /	AUX	1040.00	AB077	12WD-0N'6D	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	YT-6048	0	EPS / EMERGENCY DIESEL #1 SPEED SENSING SWITCH	AUX	1014.00	AB063	2E'K-5N'1A	1007 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	YT-6148	0	EPS / EMERGENCY DIESEL #2 SPEED SENSING SWITCH	AUX	1014.00	AB064	2E'K-10S'2B	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

	ion.

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Certification:

knowledge and belief, correct and accurate. "All information" includes each entry and conclusion the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate.

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R. P. Kennedy (RPK)	World O. Komed	12 2 941			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD)	Closeph K. Maken	12/7/941	The second of		
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
		1 1			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date



Omaha Public Power Dis.... SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FIEL	Rm or Rw/Cl	Base El	<40'?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact	Equip OK?
6	AC-10A	0	RWS. / MOTOR-DRIVEN PUMP AC-10A FAILS TO START - RWS	INTK	994.00	INTK , 1ECC1S103	985.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
6	AC-10B	0	RWS / MOTOR-DRIVEN PUMP AC-10B FALS TO START - RWS	INTK	994.00	INTK , 1E'CC-1N'10	985.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
6	AC-10C	0	RWS: *JUTOR-DRIVEN PUMP AC-10C FAILS TO START - RWS	INTK	994.00	INTK , 1E'CC-1S'10	985.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
6	AC-10D	-	RWS / MOTOR-DRIVEN PUMP AC-10D FAILS TO START - RWS	INTK	994.00	INTK , 1ECC1N104	985.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
20	AI-214	0	RC /	AUX	994.00	AB020 , 26WD-5N'2B	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-215	0	RC /	AUX	994.00	AB020 . 26W'D-5N'2B	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-224A	0	PNL /	AUX	1036.00	AB072 , 8WJ1-21N'7	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20	AI-224B	0	PNL/	AUX	1036.00	AB072 , 8WJ1-3N7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	CH-1A	0	CVCS / CHARGING PUMP A	AUX	991.00	AB006 , 5E'U-4N'6E	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	CH-1B	0	CVCS CHARGING PUMP B	AUX	991.00	AB006 , 34WT-6N'6E	989.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
5	CH-1C	0	CVCS / CHARGING PUMP C	AUX	991.00	AB006 , 17WT-7N'6E	989.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
7	FCV-1368	0	AFWS / AFW PUMP FW-6 RECIRC TO EFWST	AUX	993.00	AB019 , 7WC-18N'3A	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	FCV-1369	0	AFWS / AFW PUMP FW-10 RECIRC	AUX	991.00	AB019 , 3WC-7N'3AA	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	FCV-269	0	CVCS /	AUX	1011.00	AB026 , 51WT-8N'6E	1025.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
18	FE-1368	0	AFWS / FLOW ELEMENT FOR FT-1368	AUX	996.00	AB019 , 3WC-0N'4A	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	FE-1369	0	AFWS / FLOW ELEMENT FOR FT-1369	AUX	996.00	AB019 , 3WC-14N'3A	989 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	FT-1368	0	AFWS / FLOW TRANSMITTER FOR FCV- 1368	AUX	993.00	AB019 , 1WC-4S'4A	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	FT-1369	0	AFWS / FLOW TRANSMITTER FOR FCV- 1369	AUX	993.00	AB019 , 1WC-5S'4A	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	FW-10	0	AFWS / AUXILIARY FEEDWATER PUMP (TURBINE-DRIVEN)	AUX	991.00	AB019 , 3WC-1N'3A	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

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W. Djordjevic (S&A)	1 1/1/1	12/2/9+1			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	1 Adam M. Wholake	back 2/3/941			
Print or Type Name	Signature	O Date	Print or Type Name	Signature	Date
	L	1 1			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power Distract SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	Rr	n or Rw/Cl	Base El.	<40'?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	OK?
5	FW-6	0	AFWS / AUXILIARY FEEDWATER PUMP ; (MOTOR-DRIVEN)	AUX	992.00	AB019	, 4WC-5S'4A	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
7	FW-654	0	AFWS / DEMIN WATER MAKEUP BYPASS ISOLATION	AUX	1041.00	AB081	, 10E'D-5S'4A	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1041A	0	PCS / STEAM GENERATOR RC-2A ; MS ISOLATION VALVE	AUX	1040.00	AB081	, 10W'D-3N'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1041B	0	MS / MSIV CHECK	AUX	1040.00	AB081	, 10WD-7N'4A	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-1041C	0	MS / RC-2A BYPASS ISOLATION VALVE	AUX	1042.00	AB081	, 12WD-6N'4A	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1042A	0	PCS / STEAM GENERATOR RC-2B; MS	AUX	1040.00	AB081	, 15WD-19N'4	1044 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1042B	0	MS / MSIV CHECK	AUX	1040.00	AB081	, 15W'D-19N'4	1044.00	Yes	88	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-1042C	0	MS / RC-2B BYPASS ISOLATION VALVE	AUX	1042.00	AB081	, 10E'G-20N'4	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1105	0	FWS / RC-2A FEEDWATER INLET VALVE	AUX	1039.00	AB081	. 2WD-8N'5B	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1106	0	FWS / RC-2B FEEDWATER INLET VALVE	AUX	1041.00	AB081	, 10E'J-5N'5B	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1107B	0	AFWS / EMERG. FEEDWATER CONTROL FOR STEAM GENERATOR A	AUX	1038 00	AB081	, 0WH-4N'3A	1044 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1108B	0	AFWS / EMERGENCY CONTROL VALVE FOR SG-8	AUX	1038.00	AB081	, 2E'J-0N'5B	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-1384	0	AFWS / MAIN AND AUXILIARY FEEDWATER CROSSCONNECT VALVE	AUX	1039.00	AB081	, 22E'D-21N'5	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-1385	0	PCS / S/G RC-2B ISOLATION VALVE	AUX	1038.00	AB081	, 20W'D-20N'4	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-1386	0	PCS / S/G RC-2A ; FEEDWATER ISOLATION VALVE	AUX	1038.00	AB081	, 9E'G-15S'4A	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1387B	0	FWS / RC-2B BLOW DOWN ISOLATION VALVE	AUX	992.00		, 4WN-2N'6B	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-1388B	0	FWS / RC-2A BLOW DOWN ISOLATION VALVE	AUX	991.00	AB013	, 8E'N-1S'6B	989 00	Yes	BS	GRS	Yes	No	N/A	Yes	No

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W. Djordjevic (S&A)	11) 11	2/2/94	1		
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	Adam M. Ah Dakkash	12/3/941	4		
Print or Type Name	Signature 0	Date	Print or Type Name	Signature	Date
					1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power Dis. SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. iD	Rev	Sys/Eq. Desc	Bldg.	FIEL	Rm or Rw/Cl	Base El.	<40"?	Cap. Spec	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip CK?
7	HCV-257	0	CVCS / BORIC ACID STORAGE TANK CH- 11B; RECIRCULATION VALVE	AUX	1014.00	AB026 , 12WT-8N'6E	1014.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-264	0	CVCS / BORIC ACID STORAGE TANK CH- 11A ; RECIRCULATION VALVE	AUX	1011.00	AB026 , 30E'U-9N'6E	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
3	HCV-2850	0	RWS / AIR-OPERATED VALVE HCV-2850 TRANSFERS CLOSED - RWS	INTK	1000.00	INTK , 6ECC6S103	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2851	0	RWS / AIR-OPERATED VALVE HCV-2851 TRANSFERS CLOSED - RWS	INTK	1000.00	INTK , 6E'CC-6N'10	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2852	0	RWS / AIR-OPERATED VALVE HCV-2852 TRANSFERS CLOSED - RWS	INTK	1000.00	INTK , 6E'CC-6S'10	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2853	0	RWS / AIR-OPERATED VALVE HCV-2853 TRANSFERS CLOSED - RWS	INTK	1000.00	INTK , 6ECC6N104	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2861	0	RWS /	TURB	1007.00	TURB . 1W'SA-24N'7	1011.00	Yes	BS	GRS	Yes	Yes	N/A	No	No
7	HCV-2874A	0	RWS / AIR-OPERATED VALVE HCV-2874A TRANSFERS CLOSED - RWS	INTK	1001.00	INTK , 6E'CC-4S'10	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2874B	0	RWS / AIR-OPERATED VALVE HCV-2874B FAILS TO OPEN - RWS	INTK	1002.00	INTK , 6E'CC-4N'10	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2875A	0	RWS / AIR-OPERATED VALVE HCV-2875A TRANSFERS CLOSED - RWS	INTK	1001.00	INTK , 6E'CC-7N'10	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2875B	0	RWS / AIR-OPERATED VALVE HCV-2875B TRANSFERS CLOSED - RWS	INTK	1001 00	INTK . DE'CC-8S'10	1007 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2876A	0	RWS / AIR-OPERATED VALVE HCV-2876A TRANSFERS CLOSED - RWS	INTK	1001.00	INTK . 6E'CC-4S'10	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2876B	0	RWS / AIR-OPERATED VALVE HCV-2876B TRANSFERS CLOSED - RWS	INTK	1001.00	INTK , 12WBB-4N104			BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2877A	0	RWS / COMP CLG HT EXCHS AC-1A-D ; RAW WATER INLET HEADER VALVE	AUX	993 00	AB018 , 13E'D-12S'6	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	Adam M Shanbby	ex 2/3/941			
Print or Type Name	Signature 0	Date	Print or Type Name	Signature	Date
		1			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power Dis. alhoun Station SHEET (SVDS) SCREENING VERIFICATION LA



Eq. CI	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FIEL	Rm or Rw/Cl	Base El	<40'7	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	OK?
7	HCV-2877B		RWS / COMP CLG HT EXCHS AC-1A-D; RAW WATER INLET HEADER VALVE	AUX	993.00	AB018 , 13E'D-8S'60	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2878A		RWS / COMP CLG HT EXCHS AC-1A-D ; RAW WATER INLET HEADER VALVE	AUX	993.00	AB018 , 13E'D-4S'60	1007.00	Yes	BS	CRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2878B		RWS / COMP CLG HT EXCHS AC-1A-D ; RAW WATER INLET HEADER VALVE	AUX	993.00	AB018 , 13E'D-3S'60	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2879A	0	RWS / COMP CLG HT EXCHS AC-1A-D ; RAW WATER INLET HEADER VALVE	AUX	993.00	AB018 , 13E'D-4N'6[1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2879B	0	RWS / COMP CLG HT EXCHS AC-1A-D ; RAW WATER INLET HEADER VALVE	AUX	993.00	AB018 , 13E'D-6N'60	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2880A	0	RWS / COMP COOLING HT EXCH AC-1A;	AUX	994.00	AB018 , 13E'D-6S'60	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2880B	0	RWS / COMP COOLING HT EXCH AC-1A; RAW WATER OUTLET VALVE	AUX	991.00	AB004 , 7W'D-4N'5B	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2881A	0	RWS / COMP COOLING HT EXCH AC-1B; RAW WATER INLET VALVE	AUX	994.00	AB018 , 13E'D-1N'66	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2881B	0	RWS / COMP COOLING HT EXCH AC-1B;	AUX	1003.00	AB018 , 7W/D-4N/5B	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2682A	0	RWS / COMP COOLING HT EXCH AC-1C; RAW WATER INLET VALVE	AUX	994.00	AB018 , 8E'D-9N'4A	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2882B	0	RWS / COMP COOLING HT EXCH AC-1C ; RAW WATER OUTLET VALVE	AUX	999 00	AB018 , 4E'D-9N'5B	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2883A	0	RWS / COMP COOLING HT EXCH AC-1D; RAW WATER INLET VALVE	AUX	994.00	AB018 , 8E'D-7S'7A	1007.00	Yes	85	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2883B	0	RWS / COMP COOLING HT EXCH AC-1D; RAW WATER OUTLET VALVE	AUX	999.00	AB018 , 4E'D-16S'6	1007 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2898A	0	CCW / CONTROL ROOM VA UNIT VA-46A ; CCW INLET VALVE	AUX	1037.00	AB081 , 7WJ-14N'6	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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W. Djordjevic (S&A)	Signature	2/2/941 Date	Print or Type Name	Signature	Date
Print or Type Name		. / /		Signature	Date
A. M. Al-Dabbagh (S&L)	Adam M. AhDabbagh	2/3/941			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
		1	1		1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power Disc SCREENING VERIFICATION DAWNSHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FIEL	Rm or Rw/Ci	Base Ei	<40"?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	OK?	OK	OK?
7	HCV-2898B	0	CCW / CONTRIOL ROOM VA UNIT VA-46A ; CCW OUTLET VALVE	AUX	1037.00	AB081 , 9W'J-15N'6	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2899A	0	CCW / CONTROL ROOM VA UNIT VA-46B ; CCW INLET VALVE	AUX	1037.00	AB081 , 6WG-14N'6	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2899B	0	CCW / CONTROL ROOM VA UNIT VA-46B ; CCW OUTLET VALVE	AUX		AB081 , 6W'G-15N'6	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-438B		CCW / RCP RC-3A-D LUBE OIL & SEAL CLRS; CCW INLET OUTBOARD VALVE	AUX	992.00	AB013 , 9WN-3N'6C	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-438D	0	CCW / RCP RC-3A-D LUBE OIL & SEAL CLRS: CCW OUTLET VALVE	AUX	992.00	AB013 , 12W'N-3N'6C	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-489A		CCW / COMP COOLING HT EXCH AC-1A; CCW INLET VALVE	AUX	995.00	AB004 , 10W'D-11N'5	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-489B	0	CCW / COMP COOLING HT EXCH AC-1A; CCW OUTLET VALVE	AUX	992.00	AB004 , 10WD-1N'6D	1007.00	Yes	88	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-490A	0	CCW / COMP COOLING HT EXCH AC-1B; CCW INLET VALVE	AUX	1005.00	AB004 , 9W/D-13N'5B	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-490B	0	CCW / COMP COOLING HT EXCH AC-1B; CCW OUTLET VALVE	AUX	1003.00	AB004 , 10WD-2N'6D	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-491A	0	CCW / COMP COOLING HT EXCH AC-1C; CCW INLET VALVE	AUX	992.00	A8018 , 6E'D-6N'5B	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-491B	0	CCW / COMP COOLING HT EXCH AC-1C; CCW OUTLET VALVE	AUX	992.00	AB018 , 8E'D-10S'5B	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-492A	0	CCW / COMP COOLING HT EXCH AC-1D; CCW INLET VALVE	AUX	992.00	AB018 , 8E'D-17S'6D	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-492B	0	CCW / COMP COOLING HT EXCH AC-1D; CCW OUTLET VALVE	AUX	992.00	AB018 , 8E'D-1N'6D	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-497	0	CCW / COMP CLG HT EXCHS AC-1A-D ; CCW BYPASS LINE ISOLATION VALVE	AUX	991.00	AB004 , 2E'E-8S'7A	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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W. Djordjevic (S&A)	1 Wast	12/2/941			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	Adeen M. Aharbe	lugh 2/3/941	1		1
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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

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Omaha Public Power Dis. SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FLEI	R	m or Rw/CI	Base El.	<40"?	Cap. Spec.	Demd Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
7	HCV-921	A CONTRACTOR	TMS /	AUX	1043.00	AB081	, 13W'D-0N'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-922	0		AUX	1043.00	AB081	, 13W'D-0N'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	LCV-218-3		CVCS / SIRWT CVCS CROSS CONNECT VALVE	AUX	992.00	AB007	, 45WT-2N7B	989.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
18	LT-1183	0	AFWS / EMGY FEEDWATER STORAGE TNK FW-19: LEVEL TRANSMITTER	AUX	1039.00	AB081	, 18WC-13N'3	1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	LT-1188	0	AFWS / EMGY FEEDWATER STORAGE TNK FW-19: LEVEL TRANSMITTER	AUX	1038.00	AB081	, 7E'D-18S'3A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
1	MCC-3A2	0	EPS / MOTOR CONTROL CENTER; FED FROM 1B3A-3	AUX	989 00	AB004	, 1WQ-5S'7A	989 00	N/A	ABS	RRS	Yes	No	No	Yes	No
7	MS-275	10	PCS / MAIN STEAM LINE A RELIEF VALVE	AUX	1039.00	AB081	5E'G-6S'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-276	0	PCS / MAIN STEAM LINE A , RELIEF VALVE	AUX	1039.00	AB081	, 7E'G-6S'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-277	0	PCS / MAIN STEAM LINE A ; RELIEF VALVE	AUX	1040.00	AB081	, 10W'D-0N'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-278	0	PCS / MAIN STEAM LINE A : RELIEF VALVE	AUX	1040.00	AB081	, 10W'D-2N'4A	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-279	0	PCS / MAIN STEAM LINE B ; RELIEF VALVE	AUX	1		, 19W'D-5N'4A	1036 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-280	10	PCS / MAIN STEAM LINE B ; RELIEF VALVE	AUX	1038.00	AB081	, 18W'D-5N'4A	1036 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-281	0	PCS / MAIN STEAM LINE B ; RELIEF VALVE	AUX	1038.00	AB081	, 10E'G-12N'4	1036.00	Yes	BS	ISMS	Yes	Yes	N/A	Yes	Yes
7	MS-282	0	PCS / MAIN STEAM LINE B ; RELIEF VALVE	AUX	1038.00	AB081	, 10E'G-14N'4	1036 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-291	0	PCS / MAIN STEAM LINE A ; RELIEF VALVE	AUX	1039.00	AB081	, 19WD-24N'3	1036 00	-	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	MS-292	0	PCS / MAIN STEAM LINE B ; RELIEF VALVE	AUX			, 10E'G-10N'4	1036 00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
20	NT-001	0	PNL / INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AUX	1005.00	AB020	, 8W'G-28N'4A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	PCS-224	0	1	AUX	993.00	AB006		989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	PCS-226	0	1	AUX	992.00	AB006		989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	PCS-227	0	1	AUX	992.00	AB006		989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	PCS-229	0	1	AUX	992.00	AB006		989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	PCS-230	10	1	AUX	993.00	AB006		985.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
2	PCS-232	10	1	AUX	992.00	AB006		989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
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Certification:

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W Djordjevic (S&A)	What	12/2/941			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	Adam M ACDab	beech 2/3/941			
Print or Type Name	Signature	Date /	Print or Type Name	Signature	Date
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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Omaha Public Power Dist. SCREENING VERIFICATION DATA SHEET (SVDS)



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18	PCS-412	0	CCW / PRESSURE CONTROL ROLLER SWITCH	AUX	1026.00	AB069 , 0W'N-0N'7A	1025.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PCS-413	0	CCW / PRESSURE CONTROL ROLLER SWITCH	AUX	1026.00	AB069 , 0WN-0N'7A	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PI-2854-1	0	RWS / RAW WATER PUMP DISCHARGE PRESSURE	INTK	998.00	INTK , 15WBB12N102	1007 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PI-2855-1	0	RWS / RAW WATER PUMP DISCHARGE PRESSURE	INTK	998.00	INTK , 16WBB10N103	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PI-2856-1	0	RWS / RAW WATER PUMP DISCHARGE PRESSURE	INTK	998.00	INTK , 16WBB11N103	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	PI-2857-1	0	RWS / RAW WATER PUMP DISCHARGE PRESSURE	INTK	998.00	INTK , 17WBB8N104	1007.00	Yes	BS	GRS	Yes	Yes	No	Yes	No
5	SI-1A	0	LPSI / LPSI PUMP	AUX	972.00	AB021 , 45WT-6N'6E	972.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-1B	10	LPSI / LPSI PUMP	AUX	972.00	AB022 , 1WT-15S'8A	972.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-2A	10	HPSI / HPSI PUMP	AUX	972.00	AB021 , 44WT-18N6	972.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-2B	0	HPSI / HPSI PUMP	AUX	972.00	AB022 , 0E'T-6S'8A	972 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-2C	0	HPSI / HPSI PUMP	AUX	972.00	AB021 , 10E'U-6S'8A	972.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-3A	10	CS / CONTAINMENT SPRAY PUMP	AUX	972.00	AB021 , 46WT-16N'5	972.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-3B	10	CS / CONTAINMENT SPRAY PUMP	AUX	972.00	AB022 , 1WT-1N'6C	972 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
5	SI-3C	0	CS / CONTAINMENT SPRAY PUMP	AUX	972.00	AB022 , 1WT-3N'6E	972 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
8	TCV-893	0	CCW / CONTROL ROOM HVAC ISOLATION	AUX	1037.00	AB072 , 8WJ1-12N'7	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	TCV-894	0	CCW / CONTROL ROOM HVAC ISOLATION	AUX	1037.00	AB072 . 8WJ1-11N'6	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
10	VA-46A	0	HVAC / CONTROL ROOM AIR CONDITIONING UNIT	AUX	1036 00	AB072 , 8WJ1-12N7	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	VA-46B	0	HVAC / CONTROL ROOM ; AIR CONDITIONING UNIT	AUX	1036.00	AB072 , 8WJ1-11N'6	1036.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
12	WD-28A	0	CCW / WASTE GAS COMPRESSOR	AUX	993.00	AB016 , 7E'L-22S'9	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
12	WD-28B	10	CCW / WASTW GAS COMPRESSOR	AUX	993.00	AB016 , 7E'L-10S'9	989.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

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W Djordjevic (S&A)	W M	12/2/941			31 55
Print or Type Name	Signalure	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	Adam M. Ah Dukkagh	2/3/941			
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Omaha Public Power Dist. houn Station SHEET (SVDS) SCREENING VERIFICATION UN



Eq.	Eq ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	Rm or Rw/Cl	Base El.	<40'?				Caveats OK?	Anchor OK?		Equip OK?
7	YCV-1045		AFWS / AUX FEEDWATER PUMP FW-10 ; INLET VALVE	AUX	996.00	AB019 , 6WC-1N'3A	989.00	Yes	BS	GRS	Yes	No	N/A	Yes	No
7	YCV-1045A		AFWS / MAIN STEAM LINE A TO ; AUX FEEDWATER PUMP FW-1	AUX	1044.00	AB081 , 3WD-2S'4A	1044.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	YCV-1045B		AFWS / MAIN STEAM LOOP B , AUX FEEDWATER PUMP FW-10 ;	AUX	1042.00	AB081 , 11E'G-17N'4	1036.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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W Djordjevic (S&A)	11/1/4	1 2/2/941			
Print or Type Name	Vangerenure	Date	Print or Type Name	Signature	Date
A. M. Al-Dabbagh (S&L)	Adam M. Hithible	Eagl 2/3/941			1
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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date



Eq. Cl	Eq. ID	Rev	Sys/Eq. Desc	Bldg	FIEL	Rin or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
20	Al-108B	10	1	AUX	1011.00	All Locations	1007.00	Yes	BS	GRS	Yes	Yes	No	Yes	No
17	DG-1	10	EPS / DIESEL GENERATOR	AUX	1010.00	AB063 , 3E'F-8N'1A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
17	DG-2	0	EPS / DIESEL GENERATOR	AUX	1010.00	AB064 , 3E'F-7S'2B	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
8	HCV-247		CVCS / REACTOR COOLANT SYSTEM LOOP 1A ; CHARGING LINE SOLENOID VALVE	CONT	1002.00	CONT , 7WBB-26N1	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-248		CVCS / REACTOR COOLANT SYSTEM LOOP 2A; CHARGING LINE SOLENOID VALVE	CONT	1000.00	CONT , 16WCC-9N1	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-258		CVCS / BORIC ACID STORAGE TANK CH- 11B; OUTLET ISOLATIO	AUX	1010.00	AB026 , 12WT-6N'6E	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	HCV-265		CVCS / BORIC ACID STORAGE TANK CH- 11A; OUTLET ISOLATIO	AUX	1010.00	AB026 . 30E'U-7N'6E	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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A. M. Al-Dabbagh (S&L)	Adam M. AhRab	bagh 2/1/941			
Print or Type Name	Signature	O Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD)	Oseph K. Math	en 2/3/94			
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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

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Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg	FIEL	R	m or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
7	HCV-238		CVCS / REACTOR COOLANT SYSTEM LOOP 1A; CHARGING LINES	CONT	999.00	CONT	, 6WBB-25N1	994.00	Yes	BS	GRS	Yes	No	N/A	Yes	No
7	HCV-239		CVCS / REACTOR COOLANT SYSTEM LOOP 2A ; CHARGING LINE S	CONT	1000.00	CONT	, 24WCC-24Nh	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2506A	0	SL-PRI/	CONT	1016 00	CONT	, 16WBB-17NII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2507A	0	SL-FRI/	CONT	1018.00	CONT	, 27WBB-35NII	1013.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	TCV-202		CVCS / REACTOR COOLANT SYSTEM LOOP 2A ; LETDOWN TEMPERA	CONT	998.00	CONT	, 8WCC-24NIII	994.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
10	VA-1A	0	CARC / CNTMT CLG & FILTER UNIT VA-15A COOLING COIL	CONT	1060.00	CONT	, 24WAA-30NII	1056.00	N/A	ABS	RRS	No	Unk	Unk	Yes	No
10	VA-1B	0	CARC / CNTMT CLG & FILTER UNIT VA-15B	CONT	1060.00	CONT	, 24WAA-12NII	1056.00	N/A	ABS	RRS	No	Unk	Unk	Yes	No
9	VA-3A	10	CARC / CONTAINMENT AIR RECIR FAN	CONT	1060.00	CONT	, 18WAA-39NII	1056.00	N/A	ABS	RRS	No	No	No	Yes	No
9	VA-3B	0	CARC / CONTAINMENT AIR RECIR FAN	CONT	1060.00	CONT	. 18WAA-3NIII	1056.00	N/A	ABS	RRS	No	No	No	Yes	No

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R E Lewis (OPPD)	FClari	12/3/94			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
S. Anagnostis (S&A)	man	1/28/94			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
				A CONTRACTOR OF THE PARTY OF	
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date



Omaha Public Power Disk SCREENING VERIFICATION JATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FIEL	R	m or Rw/Cl	Base El.	<40'?	Cap. Spec.		Cap > Demd?	Caveats OK?	Anchor OK?		Equip OK?
1	MCC-3C2	10	EPS / MOTOR CONTROL CENTER	AUX	1007.00	AB026	, 0WQ-8N'7A	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
1	MCC-4A2		EPS / MOTOR CONTROL CENTER ; FED FROM 184A-3	AUX	1007.00	AB026	, 5E'Q-8N'7A	1007.00	N/A	ABS	RRS	Yes	Yes	Yes	Yes	Yes
8	PCV-102-1	1	PPC / PZR POWER OPERATED RELIEF VALVE	CONT	1047.00	CONT	, 21WCC-9N1	1045.00	N/A	ABS	RRS	Yes	Yes	N/A	Yes	Yes
8	PCV-102-2		PPC / PRESSURIZER ; POWER OPERATED RELIEF VALVE	CONT	1047.00	CONT	, 4W'DD-9N'II	1045.00	N/A	ABS	RRS	Yes	Yes	N/A	Yes	Yes

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R. E. Lewis (OPPD)	& Clauri	12/3/941			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD)	Goseph K. Mathe	W 12/3/94 1			
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Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

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Eq.	Eq. ID	Rev	Sys/Eq Desc	Bldg.	FI EI.		Base El.		Spec	Spac	Demd?	OK?	OK?	Interact OK	
1	MCC-3B3	0	EPS / <4 KV BUS MCC-3B3 FAULT - EPS	INTK	1007.00	INTK , 10WCC-3N101	1007.00	N/A	GERS	RRS	Yes	Unk	Yes	Unk	No
			EPS / <4 KV BUS MCC-4C4 FAULT - EPS	INTK	1007.00	INTK , OWCC-3N'10	1007.00	N/A	GERS	RRS	Yes	Unk	Yes	Unk	No

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Approved: (Signatures of all Seismic Capability Engineers on the Seismic Review Team (SRT) are required; there should be atleast two on the SRT. All signatories should agree with all the entries and conclusions. One signatory should be a licensed professional engineer.)

Certification:

The information provided to the Seismic Capability Engineers regarding systems and operations of the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate

	Charles Abanda	10 m Don Dewan	12/12/94	1		
-	Charbel M. Abou-Jaoude Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
	J. K. Mathew (OPPD)	1 Q.K. Mathew	112/12/94 Date			1
	Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
		1				1
	Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

SCREENING VERIFICATION . HEET (SVDS



Eq.	Eq ID	Rev	Sys/Eq. Desc	Bldg.	FIEL		Base El		Spec	Spec	Demd?	OK?	OK?	OK	OK?
7	HCV-2805A	0	RWS / BACKWAH CONTROL VALVE	INTK	1000.00	INTK, 7WBB-4N'102	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	HCV-2805B	0	RWS / BACKWAH CONTROL VALVE	INTK	1000.00	INTK, 3E'CC-5S'105	1007.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

Ce			

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Approved: (Signatures of all Seismic Capability Engineers on the Seismic Review Team (SRT) are required; there should be atleast two on the SRT. All signatories should agree with all the entries and conclusions. One signatory should be a licensed professional engineer.)

Certification:

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Charbel M. Abou-Jaoude	10 m Ala Awin	12/12/94			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD)	1 a. K. Mathew	1 12/12/94 Date			1
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
	1				
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg	FIEL	Rm or Rw/Cl	Base El	<40"?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK	Equip OK?
10	YCV-871A		HVAC / DIESEL GENERATOR DG-2; ROOM FRESH AIR SUPPLY DAMPER	AUX		AB065 . 11WD-9N1A	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871B		HVAC / DIESEL GENERATOR DG-2 ; ROOM FRESH AIR SUPPLY DAMPER	AUX	1042.00	AB065 , 11W'M-4N'1A	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871C		HVAC / DIESEL GENERATOR DG-2 ; ROOM FRESH AIR SUPPLY DAMPER	AUX	1042.00	ABG65 , 11WM-24N1	1044 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871D		HVAC / DIESEL GENERATOR DG-2 ; ROOM FRESH AIR SUPPLY DAMPER	AUX	1042 00	AB065 , 11WM-17N1	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871E		HVAC / DIESEL GENERATOR DG-1 ; RADIATOR EXHAUST DAMPER	AUX	1030.00	AB063 , 19W'K-2N'1A	1044 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871F	0	HVAC / DIESEL GENERATOR DG-2 ; RADIATOR EXHAUST DAMPER	AUX	1030.00	AB064 , 19WK-17N1	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871G	0	HVAC / DIESEL GENERATOR DG-1, ROOM FRESH AIR SUPPLY DAMP	AUX	1024.00	AB065 , 10WF-11S'1	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	YCV-871H	0	HVAC / DIESEL GENERATOR DG-1; ROOM FRESH AIR SUPPLY DAMP	AUX	1024 00	AB065 , 10WK-11S'1	1044.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

n-	40.00			_
Le	ELITI	cati	Ю	Œ.

All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our knowledge and belief, correct and accurate "All information" includes each entry and conclusion (whether verified to be seismically adequate or not).

Approved: (Signatures of all Seismic Capability Engineers on the Seismic Review Team (SRT) are required; there should be atleast two on the SRT. All signatories should agree with all the entries and conclusions. One signatory should be a licensed professional engineer.)

Certification:

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	Charbel M. Abou-Jaoude	1 cm Jan Januar		1		1
	Print or Type Name	/ Signature	Date	Print or Type Name	Signature	Date
	J. K. Mathew	1 Q.K. Mathew	12/12/94			
	Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
		1	1 1			
_	Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

SCREENING VERIFICATION DATA SHEET (SVDS)



Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg.	FI EI.	Rm or Rw/Cl	Base El	<40'?	Cap. Spec.	Demd. Spec	Cap > Demd?	Caveats OK?	OK?	OK	OK?
20	Al-109A	10	EPS / 480 V LOAD SHED CHANNEL A	AUX	1015 00	AB056 OWC-ON'4A	1007.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20			/ OSPDS-CHANNEL A	ALIX			1036 00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
20		-	(OSPDS-CHANNEL A	AUX		AB077, 7W6D-8ND	1036 00					Yes	Yes	Yes	Yes

er			

All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our knowledge and belief, correct and accurate. "All information" includes each entry and conclusion (whether verified to be seismically adequate or not)

Certification:

The information provided to the Seismic Capability Engineers regarding systems and operations of the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate.

Approved: (Signatures of all Seismic Capability Engineers on the Seismic Review Team (SRT) are required; there should be atleast two on the SRT. All signatories should agree with all the entries and conclusions. One signatory should be a licensed professional engineer.)

Charbel M. Abou-Jaoude	1 C. M Din Show we	12/12/94			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. K. Mathew (OPPD)	1 Q.K. Mathew	1 12/12/94 1			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
		1			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq.	Eq. ID	Rev	Sys/Eq. Desc	Bldg	FI EI.	Rm or Rw/Cl	Base El	<40"?			Cap > Demd?	The second secon	Anchor OK?		Equip OK?
0	AC-12A		RWS / MOTOR-DRIVEN STRAINER AC-12A	INTK	994.00	INTK , 3WBB-3N'10	1007.00	Yes	A'A	N/A	Yes	Yes	Yes	Yes	Yes
0	AC-12B		RWS / MOTOR-DRIVEN STRAINER AC-12B FAILS TO START - RWS	INTK	994.00	INTK , 13WBB-16N10	1007.00	Yes	N/A	N/A	Yes	Yes	Yes	Yes	Yes

Certification:

All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our knowledge and belief, correct and accurate. "All information" includes each entry and conclusion (whether verified to be seismically adequate or not).

Approved. (Signatures of all Seismic Capability Engineers on the Seismic Review Team (SRT) are required; there should be atleast two on the SRT. All signatories should agree with all the entries and conclusions. One signatory should be a licensed professional engineer.)

Certification.

The information provided to the Seismic Capability Engineers regarding systems and operations of the equipment contained in the SVDS is, to the best of our knowledge and belief, correct and accurate.

Charbel M. Abou-Jaoude	10 m	Abu Terrae	12/12/94			1
Print or Type Name		Signature	Date	Print or Type Name	Signature	Date
J K Mathew (OPPD)	1 Q.K.	Mathew	112/12/14 1			
Print or Type Name	70	Signature	Dute	Print or Type Name	Signature	Date
	1		1 1			
Print or Type Name		Signature	Date	Print or Type Name	Signature	Date

APPENDIX D OUTLIER SEISMIC VERIFICATION SHEETS

Omaha Public Power District - Fort Calhoun Station GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1 **OUTLIER SEISMIC VERIFICATION SHEET (OSVS)** Class: N/A ID : Generic No. 1 Description: GENERIC Floor El. : Generic Room, Row/Col: Generic Building: AUX 1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.) Capacity vs. Demand Caveats Anchorage X Seismic Interaction

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The overhead hung lights are supported from open hooks. This is a potential interaction concern.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Close the open hooks or modify in other appropriate manner the support for hung lights.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

Other

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

11/24/93

The state of the s	District - Fort Calhoun Station (ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2
ID : Generic No. 2	Class: N/A	
Description : GENERIC (See a	ttached list for affected components)	
Building : AUX	Floor El.: 1036.00	Room, Row/Col : AB077

1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	
Anchorage	X
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The channel attached to the concrete curb does not use a headed stud. Per NRC's SSER No. 2 this condition is an outlier.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

See attached calculation which shows that the channel attachment to the concrete curb has acceptable strength.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

See attached calculation.

3. COMMENTS

This outlier is considered resolved.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate. This outlier is considered resolved based on attached calculation.

Joseph Mathew

Approved by:

Date:

12/30/93

List of Equipment Which are Part of this OSVS

AC-DC-1	AI-31A	AI-54B
AC-DC-2	AI-31B	AI-56
AI-10B	AI-31C	CB-1, 2, 3
AI-12	AI-31D	CB-10, 11
AI-22	AI-33A	CB-10, 11 AUX
AI-23A	AI-33B	CB-4
AI-24	AI-40A	GE/MAC
AI-24A	AI-40B	GM-1
AI-25	AI-40C	GM-2
AI-25A	AI-40D	
AI-26A	AI-41A	
AI-3	AI-41B	
AI-30A (D1)	AI-42A	
AI-30A (ESF)	AI-42B	
AI-30A (S1-1)	AI-43A	13413.71344
AI-30A (S1-2)	AI-43B	
AI-30B (D2)	AI-44	
AI-30B (ESF)	AI-45	
AI-30B (S2-1)	AI-4A	
AI-30B (S2-2)	AI-4B	

Cak	cs. For	Reviews	of	Eml	bedded	
-	1	1 2	1			0
(nan	nel Kesi	stan	ce 1.	n Control	Koom

Calc. No.	
Rev. O	Date
Page /	ot 11

Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by	A-AliDakbalh	Date 12/29/93
Reviewed by	M. Ami.	Date 12/29/93
Approved by		Date

Introduction

Based on discussion with SRT members R. Kennedy and W. Djordjevic on December 23, 1993, it was decided to reevaluate the embedded Channel resistance used in the control room to support various cabinets. The calculated resistance will be used to assess the anchorage status of AI-43A and AI-31A/B/C/D which were chosen as the two critical cases in the evaluation of the Control Room cabinets in the "Generic Anchorage Calculation" attached to sews AI-31A (Rev.o). The forces to be used in the assessment are also obtained from the same calculation.

Form GQ-3.08.1 Rev. 2

Calcs. For Review o	f Emb	edded	Channel
Resistance	in Co	n trol	Room
✓ Safety-Related		Non-S	stety-Related

Calc. No.		
Rev. O	Date	
Page 2	2_ of	11

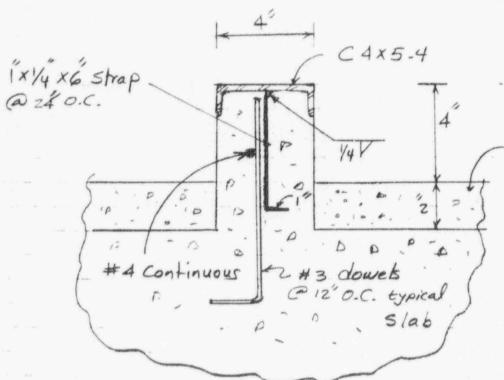
-			
Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by A. Ah Dabbagh	Date 12/28/93
Reviewed by M. Am.	Date 17/29/93
Approved by	Date

RESISTANCE OF EMBEDDED CHANNEL

IN CONTROL ROOM

1036-0' AUX BLDG.



Finish Concrete

Embedded Channel Detail

Calca. For Review of	Embedded Channel
Resistance	in Control Room
X Safety-Related	Non-Safety-Related

Calc. No.	
Rev. O	Date
Page 3	of []

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Client	OPPD		
Project	FCS	The state of the s	
Proj. No.	9233-00	Equip. No.	
		AND REAL PROPERTY OF THE PROPE	na-tonian microsoft

Prepared by A. Ah Dabbagh	Date 12/28/93
Reviewed by M. Am	Date 12/29/93
Approved by	Date

Strap Minimum Pull out Resistance:

Weld to Channel

Rw = \(\frac{1}{4} \times .707 \times 1 \times 30600 = 5410 \text{ lbs}

Strap tension

Rt = (0-9×36000) 4×1 = 8100 lbs

Strap Pullout

Per EPRI NP-5228-SL Rev. 1 Volume 1 page 2-98, an ultimate bond stress of 200 psi for plain

bars in 3500 psi concrete is allowed.

Bond area = 2(1+.25) x5 = 12.5 in2

The 1" bent resistance against strap

pullout (as a cantilever) is:

 $M = \frac{Wl}{2} = \frac{W}{2} = \frac{V}{2} = -9x36000x^{\frac{2}{25}x1}$

6 1 0

Rbent = W = .9x2x6000x.0625 = 675 #

Form GQ-3.06.1 Rev.

Calca. For Review of	CEM	bedded	Channel
Resistance			
✓ Satety-Related		Non-Salety-F	Related

Calc. No.	
Rev. O	Date
Page 4	of

Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by A. Ah Dabbath	Dato 12/28/93
Reviewed by M. Amm.	Date /2/79/93
Approved by	Date

R bond = $\frac{200}{1-33} \times 12.5 = 1880 \text{ }$ * Reduction factor of 0.75 from the ultimate Stress.

Rb = 1880 + 675 = 2555 #

Minimum Pullout

Resistance

Resistance

Form GQ-3.08:1 Rev. 2

SA	RG	ENT	& LUI	YDN
	-	-	SERVERIO.	SE CO CO CO.

Calc	B. For Review of E	mbe doed	Channel
	Resistance in	Control	0
X	Safety-Related	Non-Safety-	Related

Calc. No.	
Rev.	Late
Page C	ot II

			-
Cllent	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by A. Al-Dabbagh	Date 12/29/93
Reviewed by M. Am	Date 12/29/93
Approved by	Date

Curb Shear Resistance:

a) 1 to curb

	iel side	resistance	t,	v = 0-184	
	4x5-4	· 3 (fo	134		
5=	24(.296)	0.35 in 3 F	3/in =		-584
M=	W 22 -00	9	11	ff= aze	16"

l= 1-584-0-184=1-4

W(1-4)2 = 0-9 x36000 x 0.0146

W= 4c2 Psi

R = 482x1-4x24 = 16195 165

Since 482 CC 0-85 fe' = 0-85x4000=3400ps;

concrete compression is acceptable

Concrete Shear in plane extending.

between flanges

Concrete area = (4-2x.296) 24 = 81.79 in 2

R= 2 Vfc Ac. \$

Form GQ- 3.08.1 Rev.

Calcs. For	Review of &	Embedded Channel
Resis	tance in Co	ontrol Room
X Safet		Non-Safety-Related

Calc. No.	
Ray.	Date
Page (of II

Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Propared by A. Alababach	Date 12/29/93
Reviewed by M-Ami	Date 12/29/93
Approved by	Date

R= 2x J4000 x81-79 x0-85 = 8.794 163

b) 1/2 to curb.

Conservative approach is employed by ignoring the bond between the channel and the concrete.

· Strap weld shear resistance = 5410 lbs

to concrete in bearing

- strap plastic modulus

Z - bt2 = 0.25(1) = 0.0625

Mu = 0.9 Fy Z = 0.9 x 36000 x - 0628

= 2050 in -16 $\frac{Wl^2}{3} = 2050$

To estimate w consider the concrete

m GO. 1 ite 1 Ear 2

Calca. For Review of Embedded Channel
Resistance in Control Room

X Satety-Related

Non-Satety-Related

Calc. No.

Rev. O Date

Page 7 of []

Client OPPD
Project FCS
Proj. No. 9233-00 Equip. No.

Prepared by A. Alabhagh Date 12/29/93
Reviewed by M. Am. Date 12/29/93
Approved by Date

 $\phi = 0.7$

Az = Z since bearing area is very large

To = 0-85 x 0.7 x 4000 x 2 - 4760 psi

use W = 1x0.25 x 4760 = 1190 1b/in

 $\frac{\ell^2}{3} = \frac{2050}{W} = \frac{2050}{1190} = 1.72$

l= 2.27

 $V = \frac{wl}{2} = \frac{1190 \times 7:27}{2} = 1350 \text{ lbs}$

R= 1350 16s

Summary

Rp = 2555 lbs

pullout

RV = 1350 165

Shear

* Use min. of capacity in two directions for convenience

Form GG-3:08:1 Rev.

Calca. For Review of Embedded Channel
Resistance in Control Room
X Satety-Related
Non-Satety-Related

Calc. No.

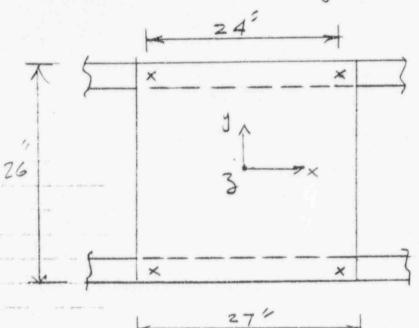
Rev. O Date

Page 8 of []

Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by A - Alababagh	Date 12/29/93
Reviewed by M. Amel	Date 12/29/93
Approved by	Date

Assessment of Anchorage For Cabinet AI-43A



Dead Load & seismic Forces, from page 15 of 21.

tension per anchor = 6390 = 123 #

Due to Mx,s = ZGX2

tension Per another

Due to My,s =
$$\frac{15756}{2 \times 24}$$
 = 328 1b

Form GO 3.08.1 Rev.

Calca. For Review of Embedded Channel
Resistance in Control Room

x Satety-Related

Non-Satety-Related

Calc. No.

Rev. O Date

Page 9 of | |

	Assessment and assessment		
Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by 9. Al Dabbalh	Date 12/29/93
Reviewed by M. Amel	Date 12/29/93
Approved by	Date

$$x-shear$$
 = $\frac{350}{4} = 88$ 1b

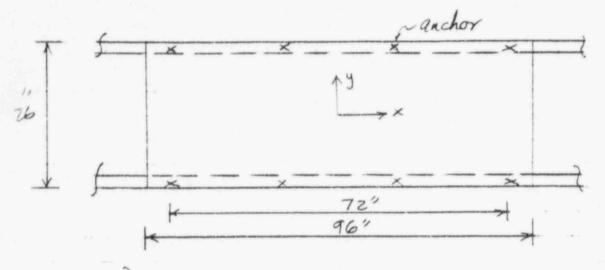
Calca. For Review	of.	Embe	dded	Channel
Resistance	in	Con	trol	Room
X Safety-Related			Non-Safe	ry-Related

Calc. N	0.		
Rev. (0	Date	
Page	10	of	11

Client	OPPD		
Project	FCS		
Proj. No.	9233-00	Equip. No.	

Prepared by A-Hhabbagh	Date 12/29/93
Reviewed by M. Ami	Date 12/29/99
Approved by	Date

Assessment of Anchorage For Cabinet AI-31A/BK/D



Dead Load & Seismic Forces, from page 190f21 Of SEWS AI-31A (Rev.o), are:

Critical Forces in outer anchors.

Form GQ-3.08.1 Re

Calcs. For	Review	0	F	En	bec	Ideo	Channel
Resist	tance	in	(Con	trol	K	com
× Safety	-Related				No	n-Safet	y-Related

Calc. No.	_	_
Rev. O	Date	
Page	of	(1

Client	OPPD		
Project	FCS		
Proj. No.	9233 -00	Equip. No.	

Prepared by A-AhRabbagh	Date 12/29/93
Reviewed by M. Ami	Date 12/29/93
Approved by	Date

Net tension = 432+127-309 = 250 lbs
x-Shear peranchor = $\frac{405}{8}$ = 51 lbs
Y-shear = 999 = 125 165
shear Resultant Per anchor = V1252+512 = 135 165
Anchor shear = 1350 165 Resistance = 1350 165
Anchor Pullout Resistance = 2555 lbs
Tension Margin = 2555 = 10.2
Shear Margin = 1350 = 10.0 controls

Form GQ-3:08.1 Rev. 2

	r District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2
ID : Generic No. 3	Class: N/A	
Description : GENERIC (See a	attached list for affected components)	
Building : AUX	Floor El.: 1011.00	Room, Row/Col : AB056 & AB056A

1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	
Anchorage	X
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The detail for channel embedment into concrete does not use a headed stud. Per NRC's SSER No. 2 this condition is an outlier.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

See the calculations attached to the SEWS for T1B-3A and EE-8Q, which show that the channel attachment to the concrete has acceptable strength.

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

See the referenced SEWS

3. COMMENTS

This outlier is considered resolved.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate. This outlier is considered resolved based on attached calculation.

Robert P. Kennedy Joseph Mathen

Approved by:

Date:

1/6/934

List of Equipment Which are Part of this OSVS

	-
EE-8H	
EE-8J	
EE-8K	
EE-8L	
EE-8Q	
T1B-3A	A
T1B-31	3
T1B-30	C
T1B-4/	4
T1B-41	3
T1B-40	C
Control of the Contro	COLUMN TO SHAPE OF THE PARTY OF

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
: 1A3 (Rev. 0)	Class: 3. Medium Volt	tage Switchgear
escription: 4.16KV AC BUS		
uilding : AUX	Floor El. : 1016.00	Room, Row/Col : AB056 , 11WC- 18N'1
	ON - Mechanical and Electrical Equip guidelines which are not met. (Check n	ment nore than one if several guidelines could
Capacity vs. Demand		
Caveats		
Anchorage		
Seismic Interaction		X
Other		
would consider this item	n of equipment to be verified for seismic	r issues were resolved, then the signato adequacy).
There are overhead light	ts which are supported on open S-hooks.	
	COLITIVED DESCRIPTION (Ontional)	
	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	
a. Defined proposed meth		
a. Defined proposed meth	od(s) for resolving outlier. which support the overhead lights. eded to implement proposed method(s) f	for resolving outlier (e.g., estimate of
Defined proposed meth Close the open S-hooks b. Provide information neer	od(s) for resolving outlier. which support the overhead lights. eded to implement proposed method(s) f	for resolving outlier (e.g., estimate of
Defined proposed meth Close the open S-hooks b. Provide information neer	od(s) for resolving outlier. which support the overhead lights. eded to implement proposed method(s) f	for resolving outlier (e.g., estimate of
a. Defined proposed meth Close the open S-hooks b. Provide information nee fundamental frequency CERTIFICATION:	od(s) for resolving outlier. which support the overhead lights. eded to implement proposed method(s) f).	for resolving outlier (e.g., estimate of elief, correct and accurate, and resolution of this item of equipment to be verificated by the state of equipment to be equip
a. Defined proposed meth Close the open S-hooks b. Provide information nee fundamental frequency CERTIFICATION: the information on this OSVS ne outlier issues listed on the	od(s) for resolving outlier. which support the overhead lights. eded to implement proposed method(s) f).	elief, correct and accurate, and resolution

The second contract of	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
): 1A4 (Rev. 0)	Class: 3. Medium Vo	
escription : 4.6KV AC BUS		
uilding AUX	Floor El. : 1016.00	Room, Row/Col : AB056A , 16WC- 18N'1
	ION - Mechanical and Electrical Equi g guidelines which are not met. (Check	more than one if several guidelines could
Capacity vs. Demand		
Caveats		
Anchorage		
Seismic Interaction		X
Other		
There are overhead ligh	its which are supported on open S-hooks.	
	which support the overhead lights.	
b. Provide information need fundamental frequency	eded to implement proposed method(s)	for resolving outlier (e.g., estimate of
CERTIFICATION:		
he information on this OSVS he outlier issues listed on the eismic adequacy:	S is, to the best of our knowledge and be previous page will satisfy the requirment	elief, correct and accurate, and resolution ents for this item of equipment to be verifie
Approved by:	Way	Date: 2/1/9:
	0 - 1 /m +h.	10 100 100

290, 5 0, 5 0, 200, 100, 100, 100, 100, 100, 100, 1	THE RESERVE OF THE PARTIES AND THE PARTIES.	rict - Fort Calhoun Station FICATION SHEET (OSVS)	GIP Rev 2, Corrected 2, Sheet 1 of 1	/14/92
D: 183A (Rev. 0)		Class : 2. Low Voltage	Switchgear	
Description : MAIN	SECONDARY:	and the same of th		
luilding : AUX		Floor El. : 1011.00	Room, Row/Col : AB056 21N'5	6 , 10WC-
	e screening guide	Mechanical and Electrical Equipole elines which are not met. (Check not met.)		lines could
Capacity vs.				
Caveats	Demand			
THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	personal recommendations recommended			
Anchorage Seismic Inte	raction			X
Other	raction			
would conside	er this item of eq	ne outlier (i.e., if all the listed outlier uipment to be verified for seismic	adequacy).	
There are over	erhead lights on o	per o noons.		
a Defined proper	osed method(s)	for resolving outlier		
Close the ope	en S-hook which s	for resolving outlier. upport the overhead lights. upport implement proposed method(s) for	or resolving outlier (e.g., estim	nate of
Close the ope	en S-hook which s	for resolving outlier. upport the overhead lights.	or resolving outlier (e.g., estim	nate of
b. Provide information fundamental in the control of the control o	mation needed to	for resolving outlier. upport the overhead lights.	or resolving outlier (e.g., estim	nate of
b. Provide information on the outlier issues list	mation needed to frequency). this OSVS is, to sted on the previous	for resolving outlier. upport the overhead lights.	lief, correct and accurate, and	resolution
b. Provide information on	mation needed to frequency). this OSVS is, to sted on the previous	for resolving outlier. upport the overhead lights. implement proposed method(s) for the best of our knowledge and be	lief, correct and accurate, and	resolution

	wer District - Fort Calhoun Station C VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
: 1B4A (Rev. 0)	Class : 2. Low Voltage	Switchgear	
escription : MAIN SECONI	DARY ; 480 BUS 1B4A		
oilding : AUX	Floor El. : 1011.00	Room, Row/Col : AB056A , 10E 15S'7	
	TION - Mechanical and Electrical Equiponing guidelines which are not met. (Check not met.)		
Capacity vs. Deman	d		
Caveats			
Anchorage			
Seismic Interaction		X	
Other			
b. Describe all the reason would consider this ite. There are overhead light	ons for the outlier (i.e., if all the listed outlier em of equipment to be verified for seismic	adequacy).	
a. Defined proposed me	othod(s) for resolving outlier.		
Close the open S-hool	k which support the overhead lights.		
Provide information n fundamental frequence	eeded to implement proposed method(s) forcy).	for resolving outlier (e.g., estimate of	
The information on this OS he outlier issues listed on the seismic adequacy: Approved by:	VS is, to the best of our knowledge and be the previous page will satisfy the requirment of the previous page.	elief, correct and accurate, and resolution into for this item of equipment to be verified Date:	
	Joseph Mathen	12/6/93	

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		strict - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/ Sheet 1 of 1	92
184C (Rev. 0)		Class 2. Low Voltage		
escription : MAIN				
uilding : AUX		Floor El.: 1011.00	Room, Row/Col : AB056A , 4N'4D	15WC
	e screening gui	Mechanical and Electrical Equipole delines which are not met. (Check to		s could
Capacity vs	Demand			
Caveats				
Anchorage	Opening of the Control of the Contro			
Seismic Inte	eraction			X
Other				
would consid	ler this item of e	the outlier (i.e., if all the listed outlie quipment to be verified for seismic	r issues were resolved, then the sadequacy).	signator
There are ov	verhead lights on	open S-hooks.		
Close the op	en S-hook which	support the overhead lights.		
	mation needed	support the overhead lights. to implement proposed method(s) for	or resolving outlier (e.g., estimate	e of
b. Provide infor	mation needed		or resolving outlier (e.g., estimate	of
b. Provide infor fundamental	mation needed frequency).	to implement proposed method(s) f		
b. Provide infor fundamental CERTIFICATIO the information on	mation needed frequency). N: this OSVS is, to sted on the previous contraction.		lief, correct and accurate, and re-	solution
b. Provide infor fundamental CERTIFICATIO the information on the outlier issues li	mation needed frequency). N: this OSVS is, to sted on the previous contraction.	to implement proposed method(s) for the best of our knowledge and be	lief, correct and accurate, and re-	solution

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : AC-1A (Rev. 0) Class : 21. Tanks and I		Heat Exchangers
Description : COMPONENT C	COOLING HEAT EXCHANGER	
Building : AUX	Floor El. : 994.00	Room, Row/Col : AB004 , 6WD- 18N'5B

1. OUTLIER ISSUE DEFINITION - Tanks and Heat Exchangers

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Shell Buckling	
Anchor Bolts and Embedment	X
Anchorage Connections	X
Flexibility of Attached Piping	
Other	X

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).
 - 1. There is a nut missing on one saddle, which connects the top support to the bottom support.
 - 2. Since these tanks are piggybacked, they do not fall within the GIP parameters for horizontal tanks. Therefore they require additional external evaluation and are initially classified as outliers.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- Defined proposed method(s) for resolving outlier.
 - 1. Replace the missing nut on the saddle.
 - 2. Perform external manual analysis.

b.	Provide information needed to implement proposed method(s) for resolving outlier (e.g.,	estimate of
	fundamental frequency).	

process to the same of the sam	COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	AND DESCRIPTION OF THE PERSON	
			AND DESCRIPTION OF THE PARTY OF
Language plants and the second of the second	THE R. P. LEWIS CO., LANSING MICH. LANSING PROPERTY AND P		
Name and the state of the state			

4. CERTIFICATION:

The informatical on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Adam Ah Dubbalk

Approved by:

Date

12/2/93

The Art and the Control of the Contr	ver District - Fort Calhoun Station C VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : AC-1B (Rev. 0)	Class : 21. Tanks and	Heat Exchangers
Description : COMPONENT	COOLING HEAT EXCHANGER	
Building : AUX	Floor El.: 1003.00	Room, Row/Col : AB004 , 6WD- 18N'5B

1. OUTLIER ISSUE DEFINITION - Tanks and Heat Exchangers

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Shell Buckling	
Anchor Bolts and Embedment	X
Anchorage Connections	X
Flexibility of Attached Piping	
Other	X

- Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).
 - 1. There is a nut missing on one saddle, which connects the top support to the bottom support.
 - 2. Since these tanks are piggybacked, they do not fall within the GIP parameters for horizontal tanks.

Therefore they require additional external evaluation and are initially classified as outliers.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Defined proposed method(s) for resolving outlier.
 - 1. Replace the missing nut on the saddle.
 - 2. Perform external manual analysis.

b.	Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of
	fundamental frequency).

4	CEL	RT	FI	CA	TION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Arlam An Dabbagh

Approved by:

Date:

12/2/93

-1C (Rev. 0) tion : COMPONENT COO	Class : 21 Tanks ar		
	Glass . E.I. I alino al	nd Heat Exchangers	
	LING HEAT EXCHANGER		
j : AUX	Floor El. : 994.00	Room, Row/Col : AB01 24N'4	8 , 23WC-
LIER ISSUE DEFINITION	N - Tanks and Heat Exchangers		
dentify all the screening go ot be satisfied.)	uidelines which are not met. (Check	k more than one if several guide	elines could
Shell Buckling			
	ment		X
The state of the s	ing		111645
AND RESIDENCE AND ADDRESS OF THE PARTY OF TH			
POSED METHOD OF O	UTLIER RESOLUTION (Optional)		
Perform external manual ar	nalysis.		
) for resolving outlier (e.g., estin	
The state of the s	Shell Buckling Anchor Bolts and Embed Anchorage Connections Flexibility of Attached Pip Other escribe all the reasons for ould consider this item of the allowable anchorage and the allowable anchorage and the proposed methods	Shell Buckling Anchor Bolts and Embedment Anchorage Connections Flexibility of Attached Piping Other escribe all the reasons for the outlier (i.e., if all the listed out ould consider this item of equipment to be verified for seism. The allowable anchorage acceleration capacity is less then the recommendation of the set of the seism.	dentify all the screening guidelines which are not met. (Check more than one if several guide of be satisfied.) Shell Buckling Anchor Bolts and Embedment Anchorage Connections Flexibility of Attached Piping Other escribe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then to ould consider this item of equipment to be verified for seismic adequacy). The allowable anchorage acceleration capacity is less then the required, SPA. POSED METHOD OF OUTLIER RESOLUTION (Optional) efined proposed method(s) for resolving outlier.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

12/7/93

		District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/ Sheet 1 of 1	92
3 · A	C-1D (Rev. 0)	Class : 21. Tanks and	Heat Exchangers	
		LING HEAT EXCHANGER		
-	ng : AUX	Floor El. : 996.00	Room, Row/Col : AB018 , : 24N'5	23WC-
		N - Tanks and Heat Exchangers uidelines which are not met. (Check	more than one if several guideline	s could
	Shell Buckling			
	Anchor Bolts and Embed	ment		X
	Anchorage Connections			
	Flexibility of Attached Pig	pind		
	Other	7113		
b.	Describe all the reasons fi	or the outlier (i.e., if all the listed outlied for seismic	er issues were resolved, then the stadequacy).	signato
		cceleration capacity is less then the requ		
PF	DODOSED METHOD OF	LITE IFF CECOLITICAL (Cational)		
	COPOSED METHOD OF C	UTLIER RESOLUTION (Optional)		
a.	D. C			
		i(s) for resolving outlier.		
	Preform external manual a	i(s) for resolving outlier.	for resolving outlier (e.g. estimate	e of
a.	Preform external manual a	nalysis.	for resolving outlier (e.g. estimate	e of
a.	Preform external manual a	nalysis.	for resolving outlier (e.g. estimate	e of
a. b.	Preform external manual and Provide information needs fundamental frequency). ERTIFICATION:	nalysis.	elief, correct and accurate, and re-	solution
a. b. The the conseins	Preform external manual and Provide information needs fundamental frequency). ERTIFICATION: information on this OSVS is puttier issues listed on the provided method.	ed to implement proposed method(s)	elief, correct and accurate, and re-	solution

	ower District - Fort Calhoun Station IC VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : AC-2 (Rev. 0)	Class : 21. Tanks and	Heat Exchangers
Description : COMPONEN	COOLING WATER; SURGE TANK AC-2	
Building : AUX	Floor El.: 1030.00	Room, Row/Col : AB069 , 6WL- 24N'7A
1. OUTLIER ISSUE DEFI	HITION - Tanks and Heat Exchangers	
	NITION - Tanks and Heat Exchangers ning guidelines which are not met. (Check m	nore than one if several guidelines cou
a. identify all the scree		nore than one if several guidelines cou
identify all the scree not be satisfied.)	ning guidelines which are not met. (Check m	nore than one if several guidelines cou
a. identify all the scree not be satisfied.) Shell Buckling	ning guidelines which are not met. (Check met)	nore than one if several guidelines cou

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories

2.	PROPOSED	METHOD	OF	OUTLIER	RESOLU	JTION	(Optional)

2. The weight density does not meet the boundary parameters.

- a. Defined proposed method(s) for resolving outlier.
 - 1. The tank needs to be tied to the north saddle (fixed end saddle).

would consider this item of equipment to be verified for seismic adequacy).

2. Perform manual external analysis.

1. The tank is not welded to its saddles.

٥.	Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

4. CERTIFICATION:

Other

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:	4124	Date:
	Oseph Mathew	12/6/93
	(Breph IN Jathew	12/13/93

		trict - Fort Calhoun Station FICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
) · A	AC-3B (Rev. 0)	Class : 5. Horizontal P	umps
	ription : COMPONENT COOLIN	NG WATER PUMP AC-3B	
action and a second	ing : AUX	Floor El. : 1027.00	Room, Row/Col : AB069 , 1WN- 4S'8A
a.		Mechanical and Electrical Equipolelines which are not met. (Check m	ment nore than one if several guidelines could
	Capacity vs. Demand		
	Caveats		
	STATE OF THE PARTY		
	Anchorage Seismic Interaction		X
	Other		
. PF	ROPOSED METHOD OF OUT	LIER RESOLUTION (Optional)	
a.	Defined proposed method(s)	for resolving outlier.	
	The duct support needs to be f	ixed.	
b.	Provide information needed to fundamental frequency).	o implement proposed method(s) for	or resolving outlier (e.g., estimate of
. C	ERTIFICATION:		
		the best of our knowledge and be	lief correct and accurate, and resolution
	information on this OSVS is, to outlier issues listed on the prev	ious page will satisfy the requirmen	lief, correct and accurate, and resolution that for this item of equipment to be verifi-
he c	mic adequacy:		
the d	mic adequacy:		
he d		+ P. Kornech	Date: 8 / 18 /

	Pr District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : AC-4A (Rev. 0)	Class : 21. Tanks and I	Heat Exchangers
Description : SHUTDOWN CO	OLING HEAT EXCHANGER	
Building : AUX	Floor El.: 994.00	Room, Row/Col : AB014 , 13E'L 17S'7

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Anchor Bolts and Embedment	X
Anchorage Connections	X
Flexibility of Attached Piping	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The ratio of the tank c.g. height to the distance between extreme anchor bolts is out of the bounding range of parameters for the horizontal tanks. Therefore, this tank requires additional external evaluation, it is initially classified as an outlier.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a.	Defined	proposed	method(s)	TOF	resolving out	ner.		

and the last	ormation needed to implement proposed method(s) for resolving outlier (e.g., estimate of
	al frequency).

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

1/27/93

Polam Alabbagh 12/2/93

Omaha Public Power OUTLIER SEISMIC V	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1		
ID : AC-4B (Rev. 0)	Class : 21. Tanks and	Heat Exchangers	
Description : SHUTDOWN COO	LING HEAT EXCHANGER		
Building : AUX	Floor El.: 994.00	Room, Row/Col : AB015 , 13WE- 17S'7	

Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied)

Shell Buckling	
Anchor Bolts and Embedment	X
Anchorage Connections	X
Flexibility of Attached Piping	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The ratio of the tank c.g. height to the distance between extreme anchor bolts is out of the bounding range of parameters for the horizontal tanks. Therefore, this tank requires additional external evaluation, it is initially classified as an outlier.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier

GZ.	Defined proposed medica(s) is reserving

	nformation needed to implement proposed method(s) for resolving outlier (e.g., estimate of ntal frequency).
--	---

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1	
D : AC-8 (Rev. 0)	Class : 21. Tanks and	Heat Exchangers	
Description:			
Building : AUX	Floor El. : 995.00	Room, Row/Col : AB005 , 9W'R- 0N'5C	
a. Identify all the screening	ON - Tanks and Heat Exchangers g guidelines which are not met. (Check m	nore than one if several guidelines coul	
		nore than one if several guidelines coul	
a. Identify all the screening not be satisfied.) Shell Buckling	g guidelines which are not met. (Check m		
a. Identify all the screening not be satisfied.)	g guidelines which are not met. (Check m	X	
a. Identify all the screening not be satisfied.) Shell Buckling	g guidelines which are not met. (Check modernment)		
a. Identify all the screening not be satisfied.) Shell Buckling Anchor Bolts and Emb	g guidelines which are not met. (Check medical content medical	X	

would consider this item of equipment to be verified for seismic adequacy).

The anchors are neither cast in place nor expansion type anchors, therefore the heat exchanger will require an external manual analysis

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Perform external r	nanual analysis.			4.3

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

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4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Dabbagh.

Approved by:

Date:

12/10/93

OUTLIER SEISMIC \	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1		
D : AC-DC-1 (Rev. 0)	Class : 20. Instrumenta	ation and Control Panels and Cabinets	
Description :			
Building : AUX	Floor El. : 1036.00	Room, Row/Col : AB077 , 25W 12N'6	
	ON - Mechanical and Electrical Equipole guidelines which are not met. (Check in	Table State of the special	
Capacity vs. Demand			
Caveats		X	
Anchorage			
Seismic Interaction		X	
Other			
OUTLIER because it is n	ot connected to adjacent cabinet, and it has	essential relays.	
2. PROPOSED METHOD OF	ot connected to adjacent cabinet, and it has OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	essential relays.	
a. Defined proposed metho	OUTLIER RESOLUTION (Optional)		
a. Defined proposed method Connect AC-DC-1 to the	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier. adjacent cabinet to eliminate potential implement proposed method(s)	act	
2. PROPOSED METHOD OF a. Defined proposed method Connect AC-DC-1 to the b. Provide information nee	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier. adjacent cabinet to eliminate potential implement proposed method(s)	act	
2. PROPOSED METHOD OF a. Defined proposed method Connect AC-DC-1 to the b. Provide information nee	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier. adjacent cabinet to eliminate potential implement proposed method(s)	act	

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirements for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

Omaha Public Power OUTLIER SEISMIC V	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
ID : Al-106A (Rev. 0)	Class : 20. Instrumen	tation and Control Panels and Cabinets
Description:		
Building : AUX	Floor El. : 1036.00	Room, Row/Col : AB077 , 5N'6D- 0N'D

1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	
Anchorage	
Seismic Interaction	X
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because fire fighting storage cabinet adjacent to AI-106A is not anchored.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

The adjacent fire fighting storage cabinet needs to be adequately anchored.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

MR-FC. 93-018 ANCHORED CABINET DURING 1993 REFUELING OUTAGE.

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

11/25/93

	District - Fort Calhoun Station (ERIFICATION SHEET (OSVS)	GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1
D : Al-108B (Rev. 0)	Class : 20. Instrument	ation and Control Panels and Cabinets
Description :		
Building : AUX	Floor El.: 1011.00	Room, Row/Col : All Locations
Capacity vs. Demand Caveats Anchorage		X
Canacity us Domand		
A CONTRACTOR OF THE CONTRACTOR		
Anchorage		X
Seismic Interaction		
Seismic interaction		
Other		
Describe all the reasons signatories would consider	for the outlier (i.e., if all the listed outli ler this item of equipment to be verified it verify anchorage on other side (it would	for seismic adequacy).
Other b. Describe all the reasons signatories would conside OUTLIER because cannot out the control of the cont	er this item of equipment to be ventied	for seismic adequacy).
Other b. Describe all the reasons signatories would conside OUTLIER because cannot 2, PROPOSED METHOD OF	er this item of equipment to be ventied	for seismic adequacy).

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Adam Albabbagh 11/30/93

Joseph Mathew 12/7/93

	Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1	
D:A	(I-196 (Rev. 0)	Class : 20. Instrument	ation and Control Panels and Cabinets	
refresh to the last	ription :			
STATE SHOULD BE A PROPERTY.	ing : AUX	Floor El.: 1013.00	Room, Row/Col : AB057 , 19W1 15N'3	
		ON - Mechanical and Electrical Equi	pment more than one if several guidelines co	
	not be satisfied.)			
	Capacity vs. Demand			
	Caveats		X	
	Anchorage		X	
	Seismic Interaction			
	Other			
		er this item of equipment to be verified at bolted to AI-198 and AI-217.	Tior Scisinio adequacy).	
	OUTLIER because it is no	total to Al-170 and Al-217.		
	Connect the cabinet to AI			
b.	Provide information need fundamental frequency).	ded to implement proposed method(s)	for resolving outlier (e.g., estimate of	
3. C	OMMENTS			
4. C	ERTIFICATION:			
the o	information on this OSVS outlier issues listed on the seismic adequacy:	is, to the best of our knowledge and b previous page will satisfy the requirme	elief, correct and accurate, and resoluents for this item of equipment to be ve	
App	roved by:	WAT	Date: 12/1/93	
		male Mather	12/9/93	

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)			GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
D:A	Al-197 (Rev. 0)	ation and Control Panels and Cabinets		
Desc	ription :			
Build	uilding : AUX Floor El. : 1011.00		Room, Row/Col : AB056 , 0W'D 0N'7A	
1. 01	JTLIER ISSUE DEFINI	TION - Mechanical and Electrical Equi	pment	
a.	Identify all the screening not be satisfied.)	ng guidelines which are not met. (Check i	more than one if several guidelines cou	
	Capacity vs. Demand			
	Caveats		X	
	Anchorage			
b.	Seismic Interaction Other Describe all the reason	ns for the outlier (i.e., if all the listed outlied ider this item of equipment to be verified not bolted to AI-199.	er issues were resolved, then the for seismic adequacy).	
b.	Other Describe all the reason signatories would cons	ider this item of equipment to be verified	er issues were resolved, then the	
	Seismic Interaction Other Describe all the reason signatories would cons OUTLIER because it is	ider this item of equipment to be verified	er issues were resolved, then the	
2. PF	Seismic Interaction Other Describe all the reason signatories would cons OUTLIER because it is	not bolted to AI-199.	er issues were resolved, then the	
2. PF	Seismic Interaction Other Describe all the reason signatories would cons OUTLIER because it is	not bolted to AI-199. F OUTLIER RESOLUTION (Optional) hod(s) for resolving outlier.	er issues were resolved, then the	
2. PF	Seismic Interaction Other Describe all the reason signatories would cons OUTLIER because it is ROPOSED METHOD O Defined proposed method of the connect AI-197 to AI-	not bolted to AI-199. F OUTLIER RESOLUTION (Optional) hod(s) for resolving outlier. 199. eeded to implement proposed method(s)	er issues were resolved, then the for seismic adequacy).	
2. PF	Seismic Interaction Other Describe all the reason signatories would consider of the constant	not bolted to AI-199. F OUTLIER RESOLUTION (Optional) hod(s) for resolving outlier. 199. eeded to implement proposed method(s)	er issues were resolved, then the for seismic adequacy).	
a. b.	Seismic Interaction Other Describe all the reason signatories would consider of the constant	not bolted to AI-199. F OUTLIER RESOLUTION (Optional) hod(s) for resolving outlier. 199. eeded to implement proposed method(s)	er issues were resolved, then the for seismic adequacy).	

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:		1.11.4	Date:	10//
		WATT	And the second second second	12/1/93
	(Laxe ph	Mathen		12/13/93
		and the second s		7 /

Omaha Public Power OUTLIER SEISMIC V	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
): Al-198 (Rev. 0)	Class : 20. Instrument	tation and Control Panels and Cabinets
escription:		
uilding : AUX	Floor El. : 1013.00	Room, Row/Col : AB057 , 19WC 17N'3
OUTLIER ISSUE DEFINITI	ON - Mechanical and Electrical Equi	ipment
Identify all the screening not be satisfied.)	guidelines which are not met. (Check	more than one if several guidelines cou
Capacity vs. Demand		
Caveats		X
Anchorage		
Seismic Interaction		X
Other		
OUTLIER because not bo	ler this item of equipment to be verified blted to AI-196.	a tot salatite anadaga).
	to AI-196 to eliminate potential impact.	
 b. Provide information nee fundamental frequency) 	ded to implement proposed method(s)	for resolving outlier (e.g., estimate of
3. COMMENTS		
4. CERTIFICATION:		
The information on this OSVS the outlier issues listed on the for seismic adequacy:	is, to the best of our knowledge and be previous page will satisfy the requirment	pelief, correct and accurate, and resolution ents for this item of equipment to be ve
Approved by:	11/14	Date: (2/1/93
		107/13
	Joseph Mathen	12/9/93

militaria i amilia i	Power District - Fort Calhoun Station	GIP Rev 2, Corrected Sheet 1 of 1	d 2/14/92			
A THE RESIDENCE AND ADDRESS OF THE PARTY OF	MIC VERIFICATION SHEET (OSVS)					
D : AI-199 (Rev. 0)	Class : 20. Instrumen	tation and Control Panels a	ind Cabinets			
Description :	Floor El.: 1011.00	Room, Row/Col : AB	056 OWD-			
Building : AUX	F1001 E1 1011.00	12N'6D	000 , 011 D			
	A CONTRACTOR OF THE PROPERTY O					
OUTLIER ISSUE DEF	INITION - Mechanical and Electrical Equ	ipment				
	delines which are not seet (Chack	mare then one if covered a	uidelines cou			
	Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)					
not be satisfied.)						
Capacity vs. Dem	and	A SECTION OF THE PROPERTY OF THE PARTY OF TH				
Caveats			X			
Anchorage						
Seismic Interactio	n		X			
Other						
	locio siculo, colactia e la sirso asteri e la	والمالية المساوية	on the			
b. Describe all the rea	asons for the outlier (i.e., if all the listed outl	d for spismic adequacy)	ien ine			
signatories would c	consider this item of equipment to be verified	u for seisiffic adequacy).				
OLEM TER L	and halted to AT 107					
OUTLIER because	not bolted to AI-197					
PROPOSED METHOL	O OF OUTLIER RESOLUTION (Optional)					
a. Defined proposed r	method(s) for resolving outlier.					
passes						
Connect cabinet Al-						
Comment odding :	-199 to AI-197 to eliminate potential impact.					
harmonia en construente e construente de la construente del la construente del la construente de la co		for resolving outlier (e.g.,	estimate of			
b. Provide information	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
harmonia en construente e construente de la construente del la construente del la construente de la co	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental freque	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental freque	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental freque	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental freque	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental freque	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental frequents. 3. COMMENTS	n needed to implement proposed method(s)	for resolving outlier (e.g.,	estimate of			
b. Provide information fundamental frequences. 3. COMMENTS 4. CERTIFICATION:	n needed to implement proposed method(s) ency).					
b. Provide information fundamental frequences. 3. COMMENTS 4. CERTIFICATION:	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate	and resoluti			
b. Provide information fundamental frequences. 3. COMMENTS 4. CERTIFICATION: The information on this Company in the continuous properties of the continuous provides and the continuous provides an	n needed to implement proposed method(s) ency).	pelief, correct and accurate	and resoluti			
b. Provide information fundamental frequences. 3. COMMENTS 4. CERTIFICATION: The information on this Country in the outlier issues listed on the country in the country is the country in the country	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate	and resoluti			
b. Provide information fundamental frequences 3. COMMENTS 4. CERTIFICATION: The information on this Countries in the outlier issues listed on for seismic adequacy:	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate	and resoluti			
b. Provide information fundamental frequences 3. COMMENTS 4. CERTIFICATION: The information on this Commental frequences for the	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate, ents for this item of equipm	and resolution			
b. Provide information fundamental frequences 3. COMMENTS 4. CERTIFICATION: The information on this Countries in the outlier issues listed on for seismic adequacy:	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate, ents for this item of equipm	and resoluti			
b. Provide information fundamental frequences. 3. COMMENTS 4. CERTIFICATION: The information on this Countries of the outlier issues listed of for seismic adequacy:	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate, ents for this item of equipm	and resoluti			
b. Provide information fundamental frequences. B. COMMENTS B. CERTIFICATION: The information on this Companies to the outlier issues listed or seismic adequacy:	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate, ents for this item of equipm	and resoluti			
b. Provide information fundamental frequences. B. COMMENTS B. CERTIFICATION: The information on this Companies to the outlier issues listed or seismic adequacy:	n needed to implement proposed method(s) ency). DSVS is, to the best of our knowledge and by	pelief, correct and accurate, ents for this item of equipm	and resoluti			

	Power District - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
CONTRACTOR OF THE PARTY OF THE	MIC VERIFICATION SHEET (OSVS)	tation and Control Panels and Cabinets	
D : AI-30B(D2) (Rev. 0)	Class : 20. Instrument	ation and Control Fallers and Cabinets	
Description : Building : AUX	Floor El.: 1036.00	Room, Row/Col : AB077 , 4WC-	
suliding : AOA	1100 11.10000	18N'7A	
OUTLIER ISSUE DEF	FINITION - Mechanical and Electrical Equi	pment	
Identify all the screenot be satisfied.)	eening guidelines which are not met. (Check	more than one if several guidelines cou	
Capacity vs. Dem	nand		
Caveats		X	
Anchorage			
Seismic Interaction	on	X	
Other			
PROPOSED METHO	D OF OUTLIER RESOLUTION (Optional)		
a. Defined proposed	method(s) for resolving outlier.		
a. Defined proposed			
a. Defined proposed Connect cabinet A	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
a. Defined proposed Connect cabinet Al b. Provide informatio	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
a. Defined proposed Connect cabinet Al b. Provide informatio	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
Defined proposed Connect cabinet Al Provide information fundamental frequency	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
Defined proposed Connect cabinet Al Provide information fundamental frequency	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
Defined proposed Connect cabinet Al Provide information fundamental frequency	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
Defined proposed Connect cabinet Al Provide information fundamental frequency	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
a. Defined proposed Connect cabinet Al b. Provide information fundamental frequency 3. COMMENTS	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	for resolving outlier (e.g., estimate of	
a. Defined proposed Connect cabinet Al b. Provide information fundamental frequency 3. COMMENTS	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s) ency).		
a. Defined proposed Connect cabinet Al b. Provide information fundamental frequency COMMENTS CERTIFICATION:	method(s) for resolving outlier. I-30B to AI-31A to eliminate potential impact. In needed to implement proposed method(s)	elief, correct and accurate, and resolut	

Date:

11/30/93

for seismic adequacy:

Approved by:

		strict - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
D: Al	-30B(ESF) (Rev. 0)	Class : 20. Instrumentation	rand Control Panels and Cabinets	
Descri	ption :			
Buildir	uilding : AUX Floor El. : 1036.00 Room, Row/Col : 18N'7A			
	Capacity vs. Demand Caveats		X	
	CONTRACTOR OF THE PERSON NAMED IN COLUMN 2	A STATE OF THE PARTY OF THE PAR	Company of the section of the sectio	
	Anchorage			
	Anchorage Seismic Interaction		X	
			X	
b.	Seismic Interaction Other Describe all the reasons for signatories would consider the	the outlier (i.e., if all the listed outlier in its item of equipment to be verified for	ssues were resolved, then the r seismic adequacy).	
b.	Seismic Interaction Other Describe all the reasons for signatories would consider the	the outlier (i.e., if all the listed outlier in his item of equipment to be verified for onnected to AI-31A, there is only a 1/4" g	ssues were resolved, then the r seismic adequacy).	
	Other Describe all the reasons for signatories would consider the OUTLIER becasue it is not consider the output of the output o	onnected to AI-31A, there is only a 1/4" g	ssues were resolved, then the r seismic adequacy).	
2. PR	Other Describe all the reasons for signatories would consider the OUTLIER becasue it is not consider the OPOSED METHOD OF OUTLIER Decay in the consider the OPOSED METHOD OF OUTLIER Decay in the consider the OPOSED METHOD OF OUTLIER Decay in the consideration of the OPOSED METHOD OF OUTLIER Decay in THE OPOSED METHOD OF OUTLIER DECAY	onnected to AI-31A, there is only a 1/4" g	ssues were resolved, then the r seismic adequacy).	
2. PR	Other Describe all the reasons for signatories would consider the OUTLIER becasue it is not consider the output of the output o	onnected to AI-31A, there is only a 1/4" g	ssues were resolved, then the r seismic adequacy).	
2. PR	Other Describe all the reasons for signatories would consider the OUTLIER becasue it is not consider the OPOSED METHOD OF OUTLIER becasue it is not consider the OPOSED METHOD OF OUTLIER becasue it is not consider the OPOSED METHOD OF OUTLIER becasue it is not consider the OPOSED METHOD OF OUTLIER becasue it is not consider the OPOSED METHOD OF OUTLIER becasue it is not considered to opose outlier or oposed method (s)	onnected to AI-31A, there is only a 1/4" g	ssues were resolved, then the r seismic adequacy). ap, and it has essential relays.	

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:	1	Date:
	Robert P. Remiels	11/24/92
	Joseph Mathew	11/30/93
	7	1

		District - Fort Calhoun Station RIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : Al-30B(S	2-1) (Rev. 0)	Class : 20. Instrument	ation and Control Panels and Cabinet
Description:			
Building: AU	X	Floor El. : 1036.00	Room, Row/Col: AB077, 4WC
a. Identify not be	r all the screening gr satisfied.) city vs. Demand	N - Mechanical and Electrical Equipulation of the North American Equipulation of the N	more than one if several guidelines or
a. Identify not be	r all the screening gr satisfied.) city vs. Demand ats	and the season of the season o	To the second se
a. Identify not be Capa Cave Anche	r all the screening gr satisfied.) city vs. Demand ats	and the season of the season o	more than one if several guidelines or
a. Identify not be Capa Cave Anche	r all the screening gr satisfied.) city vs. Demand ats orage nic Interaction	and the season of the season o	more than one if several guidelines or

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified

Date:

11/30/93

a. Defined proposed method(s) for resolving outlier.

fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

for seismic adequacy:

Approved by:

Connect cabinet AI-30B(S2-1) to AI-31A to eliminate potential impact.

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
): Al-30B(S2-2) (Rev. 0)	Class 20 Instrume	entation and Control Panels and Cabinets
escription:	Totass . 20. madamo	material discountry and discountry a
uilding : AUX	Floor El.: 1036.00	Room, Row/Col : AB077 , 4W'C- 18N'7A
	TON - Mechanical and Electrical Eq	k more than one if several guidelines cou
Capacity vs. Demand		
Caveats		X
Anchorage		V
Seismic Interaction		X
Other		
	der this item of equipment to be verifi- not connected to AI-31A, there is only a I	
OUTLIER occasion it is	TO COMMONICATION OF THE PROPERTY OF THE PROPER	
-	eded to implement proposed method	s) for resolving outlier (e.g., estimate of
fundamental frequency		5, 101 1000111119 0 0 1111111111111111111
3. COMMENTS		
. COMMENTS		
. CERTIFICATION:		
The information on this OSV he outlier issues listed on the for seismic adequacy:	S is, to the best of our knowledge and e previous page will satisfy the requin	belief, correct and accurate, and resolution ments for this item of equipment to be ver
Approved by:	Batt. House	Date: 11/24/93
manufactured had any		The state of the s
	m. h.	11/2 1/22

The second secon	er District - Fort Calhoun Station	GIP Rev 2, Corrected Sheet 1 of 1	2/14/92
AND ADDRESS OF THE PARTY OF THE	VERIFICATION SHEET (OSVS)		d O = b = = d =
): Al-31A (Rev. 0)	Class : 20. Instrumen	tation and Control Panels an	id Cabinets
Description :		Daniel Barrical ABO	77 41400
uilding : AUX	Floor El. : 1036.00	Room, Row/Col : AB0 10N'7A	11 , 444 0-
	TION - Mechanical and Electrical Equing guidelines which are not met. (Check		idelines cou
not be satisfied.)			
Capacity vs. Demand			
Caveats			X
Anchorage			
Seismic Interaction			X
Other			
OUTLIER becasue it is relays.	not connected to AI-30B and AI-31E, there	e is only a 1/4" gap, and cabine	t has essentia
	F OUTLIER RESOLUTION (Optional)		
a. Defined proposed met	thod(s) for resolving outlier. A to AI-30B and AI-31E to eliminate poten	tial impact	
a. Defined proposed met Connect cabinet AI-31.	hod(s) for resolving outlier. A to AI-30B and AI-31E to eliminate potenteeded to implement proposed method(s)		stimate of
a. Defined proposed met Connect cabinet AI-31. b. Provide information ne	hod(s) for resolving outlier. A to AI-30B and AI-31E to eliminate potenteeded to implement proposed method(s)		estimate of
a. Defined proposed met Connect cabinet AI-31. b. Provide information ne	hod(s) for resolving outlier. A to AI-30B and AI-31E to eliminate potenteeded to implement proposed method(s)		estimate of
a. Defined proposed met Connect cabinet AI-31. b. Provide information ne fundamental frequence 3. COMMENTS	hod(s) for resolving outlier. A to AI-30B and AI-31E to eliminate potenteeded to implement proposed method(s)		stimate of
a. Defined proposed met Connect cabinet AI-31. b. Provide information ne fundamental frequence. 3. COMMENTS 4. CERTIFICATION: The information on this OS	A to AI-30B and AI-31E to eliminate poten eeded to implement proposed method(s y).	pelief, correct and accurate,	and resoluti
a. Defined proposed met Connect cabinet AI-31. b. Provide information ne fundamental frequence 3. COMMENTS 4. CERTIFICATION: The information on this OS	A to AI-30B and AI-31E to eliminate poten eeded to implement proposed method(sy).	pelief, correct and accurate,	and resolution
a. Defined proposed met Connect cabinet AI-31. b. Provide information ne fundamental frequence 3. COMMENTS 4. CERTIFICATION: The information on this OS the outlier issues listed on the	A to AI-30B and AI-31E to eliminate poten eeded to implement proposed method(s y).	pelief, correct and accurate, ents for this item of equipme	and resolution

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : Al-318 (Rev. 0)		ation and Control Panels and Cabinets
Description :		
Building : AUX	Floor El.: 1036.00	Room, Row/Col : AB077 , 4WC-7N'7A

1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	X
Anchorage	
Seismic Interaction	X
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is not connected to AI-30B and AI-31E, there is only 1/4" gap, and cabinet has essential relays.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Connect cabinet AI-31B to AI-30B and AI-31E to eliminate potential impact.

Joseph Mathica

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

GIP Rev 2, Corrected 2/14/92 Omaha Public Power District - Fort Calhoun Station Sheet 1 of 1 OUTLIER SEISMIC VERIFICATION SHEET (OSVS) Class: 20. instrumentation and Control Panels and Cabinets ID: Al-31C (Rev. 0) Description: Room, Row/Col : AB077 , 4WC-Floor El.: 1036.00 Building: AUX 1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.) Capacity vs. Demand Caveats Anchorage X Seismic Interaction

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is not connected to AI-30B and AI-31E, there is only 1/4" gap, and cabinet has essential relays.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Connect cabinet AI-31C to AI-30B and AI-31E to eliminate potential impact.

Robert P. Kennely Ooseph Mathen

 b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

Other

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

THE STATE OF THE S	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : Al-31D (Rev. 0)	Class: 20. Instrument	ation and Control Panels and Cabinets
Description:		
Building : AUX	Floor El. : 1036.00	Room, Row/Col : AB077 , 4W'C- 2N'7A

1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	X
Anchorage	
Seismic Interaction	X
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER becasue it is not connected to AI-31Eand AI-30B, there is only a 1/4" gap, and cabinet has essential relays.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Connect AI-31D to AI-31Eand AI-30B to eliminate potential impact.

 b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

		District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/1 Sheet 1 of 1	14/92
galanteer net congress to be delicated	33A (Rev. 0)	Class : 20 Instrume	ntation and Control Panels and C	Cabinets
	otion : CONTAINMENT	The state of the s		
continues and a rest of the	g : AUX	Floor El. : 1036.00	Room, Row/Col : AB077 12N'6D	, 4W°C-
a. Id	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	ON - Mechanical and Electrical Equipment guidelines which are not met. (Chec		elines co
Г	Capacity vs. Demand			
	Caveats			X
200	Anchorage			
	Seismic Interaction			X
200	Other			
	OUTLIER becasue it is no	ot connected to AI-31E, there is only a 1	/4" gap, and cabinet has essential re	elavs.
. PRO	POSED METHOD OF	OUTLIER RESOLUTION (Optional	1	
a. C	Defined proposed metho	d(s) for resolving outlier.		
-				
	Connect cabinet AI-33A t	o AI-31E to eliminate potential impact.		
la.		o AI-31E to eliminate potential impect.		
b. F		ded to implement proposed method(s) for resolving outlier (e.g., estin	mate of
b. F	Provide information need	ded to implement proposed method(s) for resolving outlier (e.g., estir	mate of
b. F	Provide information need	ded to implement proposed method(s) for resolving outlier (e.g., estir	mate of
b. F	Provide information need undamental frequency).	ded to implement proposed method(s) for resolving outlier (e.g., estin	mate of
b. F	Provide information need	ded to implement proposed method(s) for resolving outlier (e.g., estir	nate of
b. F	Provide information need undamental frequency).	ded to implement proposed method(s) for resolving outlier (e.g., estir	nate of
b. F	Provide information need undamental frequency).	ded to implement proposed method(s) for resolving outlier (e.g., estir	nate of
b. F	Provide information need undamental frequency). MMENTS RTIFICATION:	ded to implement proposed method(
b. F	Provide information need undamental frequency). MMENTS RTIFICATION:	ded to implement proposed method(belief, correct and accurate, and	d resolut
b. F	Provide information need undamental frequency). MMENTS RTIFICATION: formation on this OSVS ther issues listed on the	is, to the best of our knowledge and	belief, correct and accurate, and	d resolut

	ver District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : Al-3 (Rev. 0)	Class : 20. Instrument	ation and Control Panels and Cabinets
Description :		
Building : AUX	Floor Ei.: 1036.00	Room, Row/Col : AB077 , 2WE- 0N'7A
	TION - Mechanical and Electrical Equi	pment more than one if several guidelines cou

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because inside panel door has 3 missing screws. Also it is not connected to the adjacent cabinet Al-42 with a 3/16" gap, and has essential relays.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Connect AI-3 to AI-42 to eliminate impact and replace the 3 missing screws in the panel door.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

Anchorage

Other

Seismic Interaction

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

11/30/93

X

ID : AI-40D (Rev. 0)	ERIFICATION SHEET (OSVS)		-
	Class: 20. Instrumenta	ation and Control Panels and Cabir	iets
Description: 120V A-C INSTR	UMENT : BUS D		
Building : AUX	Floor El.: 1036.00	Room, Row/Col : AB077 , 15 10N'8	WD
Identify all the screening not be satisfied.)	guidelines which are not met. (Check	more than one if several guidelines	cou
Canacity vs Demand			
Capacity vs. Demand		<u> </u>	<

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because the upper right back corner bolt connecting to AI-41B, is missing.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Replace the missing bolt in the upper right back corner connecting to AI-41B.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:	Robert P. Kennach	Date: 11/24/93
	Joseph Mathew	11/30/93

ID : AI-41B (Rev. 0)	District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
	Class : 20. Instrument	ation and Control Panels and Cabinets
Description: 125V DC; BUS NU	The second secon	
Building : AUX	Floor El. : 1036.00	Room, Row/Col : A8077 , 15WC 8N'8A
	N - Mechanical and Electrical Equi	pment more than one if several guidelines cou
Capacity vs. Demand		
Caveats		X
CONTRACTOR OF THE PERSON NAMED AND POST OF THE PERSON NAMED IN COLUMN 2 AND PO		
Anchorage Seismic Interaction		The second secon
Other		
b. Describe all the reasons f	or the outlier (i.e., if all the listed outli	er issues were resolved, then the
	r this item of equipment to be verified	Tior scisinic adequacy).
OUTLIER because upper le	oft back corner bolt is missing.	
Replace the missing bolt in		
b. Provide information need	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
 Provide information need fundamental frequency). 	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
fundamental frequency).	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
fundamental frequency).	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
fundamental frequency).	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
	ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
fundamental frequency). 3. COMMENTS 4. CERTIFICATION: The information on this OSVS in the outlier issues listed on the part of the part	s, to the best of our knowledge and b	elief, correct and accurate, and resoluti
fundamental frequency). 3. COMMENTS 4. CERTIFICATION: The information on this OSVS i	s, to the best of our knowledge and b	elief, correct and accurate, and resoluti
fundamental frequency). 3. COMMENTS 4. CERTIFICATION: The information on this OSVS in the outlier issues listed on the part of the part	s, to the best of our knowledge and b	elief, correct and accurate, and resoluti

		strict - Fort Calhoun Station RIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D . A	Al-4B (Rev. 0)		ation and Control Panels and Cabinets
AND RESIDENCE AN	ription :		A regional Assistance and the complete and the second contract of the contract
decimal programmes	ing : AUX	Floor El. : 1036.00	Room, Row/Col : AB077 , 20WC 12N'6
AND PERSONS AND ADDRESS AND AD		- Mechanical and Electrical Equi	pment more than one if several guidelines cou
	Capacity vs. Demand		
	Caveats		X
	Anchorage		
	Seismic Interaction		X
	Other		A second
2. PF	Defined proposed method(s	JTLIER RESOLUTION (Optional) s) for resolving outlier.	
	Connect AI-4B to the adjace	nt cabinet to eliminate potential impact	
b.	Provide information needed fundamental frequency).	d to implement proposed method(s)	for resolving outlier (e.g., estimate of
			THE RESIDENCE OF THE PARTY OF T
3. C	OMMENT3		
4. C	ERTIFICATION:		
the c	information on this OSVS is, butlier issues listed on the pre- eismic adequacy:	to the best of our knowledge and be evious page will satisfy the requirme	elief, correct and accurate, and resolution ents for this item of equipment to be ver
Appr	roved by:	P. Kennedy	Date: 11/2 4/93
	Posen	h Mathen	11/30/93

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because AI-54B is not connected to AI-54A, there is only a 1/4" gap, and the cabinet has essential relays.

X

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Connect cabinet AI-54B to AI-54A to eliminate potential impact.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

Caveats Anchorage

Seismic Interaction

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirements for this item of equipment to be verified for seismic adequacy:

Approved by: Robert P. Kennelly 11/24/53

Joseph Mathew 11/30/93

		District - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
	the state of the s	RIFICATION SHEET (OSVS)	ation and Control Panels and Cabinets
income/outers	Al-56 (Rev. 0)	Class : 20. Instrument	ation and Control Pariets and Cabinets
and the latest design	ription : ling : AUX	Floor El. : 1036.00	Room, Row/Col : AB077 , 2WE- 10N'7A
		N - Mechanical and Electrical Equi	pment more than one if several guidelines con
	Capacity vs. Demand		
	Caveats		X
	Anchorage		
	Seismic Interaction		X
	Other		
	OUTLIER because AI-56 a	nd AI-57 are not connected together	
a.		(s) for resolving outlier.	
a.	Defined proposed method Connect AI-56 to AI-57 to	(s) for resolving outlier.	
a.	Defined proposed method Connect AI-56 to AI-57 to	(s) for resolving outlier.	for resolving outlier (e.g., estimate of
a.	Connect AI-56 to AI-57 to Provide information needs	(s) for resolving outlier.	for resolving outlier (e.g., estimate of
a.	Connect AI-56 to AI-57 to Provide information needs	(s) for resolving outlier.	for resolving outlier (e.g., estimate of
a.	Connect AI-56 to AI-57 to Provide information needs fundamental frequency).	(s) for resolving outlier.	for resolving outlier (e.g., estimate of
a. b.	Connect AI-56 to AI-57 to Provide information needs fundamental frequency). OMMENTS ERTIFICATION:	(s) for resolving outlier. eliminate potential impact. ed to implement proposed method(s)	
a. b.	Connect AI-56 to AI-57 to Provide information needs fundamental frequency). OMMENTS ERTIFICATION:	(s) for resolving outlier. eliminate potential impact. ed to implement proposed method(s)	for resolving outlier (e.g., estimate of elief, correct and accurate, and resolutents for this item of equipment to be ve
a. b.	Connect AI-56 to AI-57 to Provide information needs fundamental frequency). OMMENTS ERTIFICATION: information on this OSVS is outlier issues listed on the poseismic adequacy:	(s) for resolving outlier. eliminate potential impact. ed to implement proposed method(s)	relief, correct and accurate, and resolut

	ver District - Fort Calhoun Station C VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : CB-4 (Rev. 0)	Class : 20. Instrument	ation and Control Panels and Cabinets
Description :		
Building : AUX	Floor El.: 1036.00	Room, Row/Col : AB077 , 0W/D- 4N'7A

1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	X
Anchorage	
Seismic Interaction	X
Other	

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is not connected to AC-DC-1.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Connect cabinet CB-4 to AC-DC-1 to eliminate potential impact.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Robert P. Kennedy Joseph Mathen

Approved by:

Date:

11/24/93

	THE PARTY CONTRACTOR OF THE PA	District - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
NAME AND ADDRESS OF		VERIFICATION SHEET (OSVS)	
one in contra	CH-11A (Rev. 0)	Class : 21. Tanks and	Heat Exchangers
-	ription BAST	Floor El. : 1010.00	Room, Row/Col : AB026 28E'U-
ulio	ing : AUX	Ploof Et 1010.00	9S'7A
a.		ON - Tanks and Heat Exchangers guidelines which are not met. (Check	more than one if several guidelines could
	Shell Buckling		
	Anchor Bolts and Embe	edment	X
	Anchorage Connection		X
	Flexibility of Attached P	Piping	
	Other		
	Since this tank is support requires additional extern	on 6 legs, it does not fall within the GIP nal evaluation and is initially classified as	parameters for vertical tanks. Therefore, it an outlier.
	requires additional extern	OUTLIER RESOLUTION (Optional)	parameters for vertical tanks. Therefore, it an outlier.
2. P	requires additional extern	nal evaluation and is initially classified as	parameters for vertical tanks. Therefore, it an outlier.
	requires additional extern	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	parameters for vertical tanks. Therefore, it an outlier.
a.	requires additional external manual analysis	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	an outlier.
a.	requires additional external ROPOSED METHOD OF Defined proposed method External manual analysis Provide information nee	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	an outlier.
a.	Provide information neefundamental frequency)	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	an outlier.
a. b.	Provide information nee fundamental frequency)	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier. ded to implement proposed method(s)	for resolving outlier (e.g., estimate of
a. b.	Provide information nee- fundamental frequency) ERTIFICATION:	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier. ded to implement proposed method(s)	an outlier.
a. b.	Provide information nee fundamental frequency) ERTIFICATION: information on this OSVS outlier issues listed on the	OUTLIER RESOLUTION (Optional) od(s) for resolving outlier. ded to implement proposed method(s)	for resolving outlier (e.g., estimate of elief, correct and accurate, and resolution

12/2/93

	Power District - Fort Calhoun Station SMIC VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : CH-11B (Rev. 0)	Class : 21. Tanks and	
Description : BAST		
Building : AUX	Floor El. : 1010.00	Room, Row/Col : AB026 , 42E'U- 9S'7A
	FINITION - Tanks and Heat Exchangers	
Identify all the sc not be satisfied.)	reening guidelines which are not met. (Check r	nore than one if several guidelines could
Shell Buckling		
Anchor Bolts an	d Embedment	X
Anchorage Con		X
Flexibility of Atta	ached Piping	
Other		
would consider the	reasons for the outlier (i.e., if all the listed outlier his item of equipment to be verified for seismic supported on 6 legs, it does not fall within the Gl	adequacy).
Since this tank is requires addition	al external evaluation and is initially classified as	an outlier.
a. Defined propose	d method(s) for resolving outlier.	
External manual	analysis.	
b. Provide informat fundamental free	tion needed to implement proposed method(s) quency).	for resolving outlier (e.g., estimate of
4. CERTIFICATION:		
The information on this	s OSVS is, to the best of our knowledge and be d on the previous page will satisfy the requirme	elief, correct and accurate, and resolution ents for this item of equipment to be verific
Approved by:		Date:
Approved by.	Adam Al Dabba	
	Adam Al Dabba	12/2/63

THE PERSON NAME OF TAXABLE PARTY.	ower District - Fort Calhoun Station MIC VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
): CH-1B (Rev. 0)	Class : 5. Horizontal P	umps
escription : CHARGING	PUMP B	
uilding : AUX	Floor El. : 991.00	Room, Row/Col : AB006 , 34WT- 6N'6E
	NITION - Mechanical and Electrical Equip	
a. Identify all the scree not be satisfied.)	ening guidelines which are not met. (Check n	nore than one it several guidelines could
Capacity vs. Dema	and	
Caveats		
Anchorage		
Seismic Interaction	7	X
Other		
		- include the signal at
would consider this	sons for the outlier (i.e., if all the listed outlie item of equipment to be verified for seismic	adequacy).
There is a work tab	le next to CH-1B and CH-1C that could topple	over and damage the small bore lines.
a. Defined proposed n	nethod(s) for resolving outlier.	
b. Provide information fundamental freque	needed to implement proposed method(s) fency).	for resolving outlier (e.g., estimate of
. CERTIFICATION:		
The information on this O the outlier issues listed or seismic adequacy:	SVS is, to the best of our knowledge and be in the previous page will satisfy the requirmen	elief, correct and accurate, and resolution ints for this item of equipment to be verificated to be verificated to the control of the control
Approved by:	NJH-	Date: (8 / /4 / 93
	Adam Al Dub b	ach 10/28/0

		District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/1 Sheet 1 of 1	4/92
) ; C	H-1C (Rev. 0)	Class : 5. Horizontal Pr	umps	
	ription : CHARGING PUMP	C		
Acid acid and	ng : AUX	Floor El. : 991.00	Room, Row/Col : AB006 7N'6E	, 17WT-
a.		N - Mechanical and Electrical Equipout		nes could
	Capacity vs. Demand			
	Caveats			
	Anchorage			
	Seismic Interaction			X
	Other			
		to CH-1B and CH-1C that could topple of		ines.
a.	Defined proposed method	UTLIER RESOLUTION (Optional)		
a.	Defined proposed method			
a.			or resolving outlier (e.g., estim	ate of
b.	Provide information need fundamental frequency).	(s) for resolving outlier.	or resolving outlier (e.g., estim	ate of
b. 4. C	Provide information needs fundamental frequency). ERTIFICATION:	(s) for resolving outlier.	elief, correct and accurate, and	resolution
b. 4. C The the seis	Provide information need fundamental frequency). ERTIFICATION: information on this OSVS is outlier issues listed on the provided in the provi	ed to implement proposed method(s) f	elief, correct and accurate, and	resolution

	Omaha Public Power Distr OUTLIER SEISMIC VERIF		GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
0.0	CH-6 (Rev. 0)	Class: 21. Tanks and	Heat Exchangers
	ription : REGENERATIVE HEAT		
-	ing : CONT	Floor Et. 994.00	Room, Row/Col : CONT , 13WEE
a.	not be satisfied.)		ore than one if several guidelines could
	Shell Buckling		X
	Anchor Boits and Embedment		
	Anchorage Connections		
b.	Flexibility of Attached Piping Other Describe all the reasons for the	outlier (i.e., if all the listed outlier	issues were resolved, then the signato
b.	Other Describe all the reasons for the would consider this item of equal tank is not a superior of the superi	supported on saddles, it does not me	eet the GIP evaluation parameters for
	Other Describe all the reasons for the would consider this item of equal tank is not a superior of the superi	supported on saddles, it does not me requires additional external evaluation	idequacy).
2. P!	Possed Method Of Outland Flexibility of Attached Piping Other Describe all the reasons for the would consider this item of equal since this horizontal tank is not horizontal tanks. Therefore, it is the proposed Method Of Outland Coposed Method Of Outland ROPOSED METHOD OF OUTLAND	supported on saddles, it does not me requires additional external evaluations. ER RESOLUTION (Optional) or resolving outlier.	eet the GIP evaluation parameters for

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

12/1/90

		r District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
0:0	CH-7 (Rev. 0)	Class 21. Tanks an	d Heat Exchangers
esc	ription :	The second secon	
uildi	ing : AUX	Floor El. : 992.00	Room, Row/Col : AB012 , 6E'Q- 0S'6E
. оц а.	Identify all the screening	ON - Tanks and Heat Exchangers guidelines which are not met. (Check	more than one if several guidelines could
	not be satisfied.)		
	Shell Buckling		X
	Anchor Boits and Emb	and the state of t	^
	Anchorage Connection	The state of the s	
	Flexibility of Attached F	Piping	
	Other		
	would consider this item	of equipment to be verified for seismi	
a.		OUTLIER RESOLUTION (Optional) od(s) for resolving outlier.	
		od(s) for resolving outlier.	
a.	Defined proposed methodology Perform external manua	od(s) for resolving outlier. I analysis. eded to implement proposed method(s) for resolving outlier (e.g., estimate of
a.	Perform external manual	od(s) for resolving outlier. I analysis. eded to implement proposed method(s) for resolving outlier (e.g., estimate of
a. b.	Perform external manual Provide information need fundamental frequency)	od(s) for resolving outlier. I analysis. Indeed to implement proposed method(s	
a. b.	Perform external manual Provide information nee fundamental frequency) ERTIFICATION:	od(s) for resolving outlier. I analysis. I analysis. I analysis. I analysis. I analysis. I analysis.) for resolving outlier (e.g., estimate of belief, correct and accurate, and resolution nents for this item of equipment to be verificated.
a. b. The the conseis	Perform external manual Provide information need fundamental frequency) ERTIFICATION: information on this OSVS puttier issues listed on the	od(s) for resolving outlier. I analysis. I analysis. I analysis. I analysis. I analysis. I analysis.	belief, correct and accurate, and resolution

	ver District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/2 Sheet 1 of 1	14/92
D : EE-8F (Rev. 0)	Class: 14. Distribution	Panels	
Description : DC BUS I			
Building : AUX	Floor El.: 1011.00	Room, Row/Col : AB056 0N'7A	, 9WC-
Capacity vs. Demand			
Caveats			
And the state of t			X
Caveats			X
Caveats Anchorage			X
Caveats Anchorage Seismic Interaction Other b. Describe all the reason would consider this ite	ns for the outlier (i.e., if all the listed outlier m of equipment to be verified for seismic a	adequacy).	
Caveats Anchorage Seismic Interaction Other b. Describe all the reason would consider this ite	ns for the outlier (i.e., if all the listed outlier	adequacy).	
Caveats Anchorage Seismic Interaction Other b. Describe all the reason would consider this ite The embedment detail	ns for the outlier (i.e., if all the listed outlier m of equipment to be verified for seismic a does not use a headed stud. Per NRC's SSE	adequacy).	
Caveats Anchorage Seismic Interaction Other b. Describe all the reason would consider this ite The embedment detail	ns for the outlier (i.e., if all the listed outlier m of equipment to be verified for seismic a does not use a headed stud. Per NRC's SSE	adequacy).	

3. COMMENTS

Per attached calculation, this outlier is considered resolved.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

1/11/94

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : EE-8G (Rev. 0)	Class: 14. Distribution	Panels
Description : DC BUS	and a special resource of the second of the	
Management of the control of the con	F1F1 4044.00	Room, Row/Col : AB056A , 16W0
	Floor El. : 1011.00 ION - Mechanical and Electrical Equip	ON'7A
a. Identify all the screening not be satisfied.)	ION - Mechanical and Electrical Equip	ON'7A
a. Identify all the screening	ION - Mechanical and Electrical Equip	ON'7A

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The embedment detail does not use a headed stud. Per NRC's SSER No. 2, it is an outlier.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Per calculation attached to SEWS for EE-8F, the anchorage is adequate.

 Provise information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

Per calculation attached to SEWS for EE-8F, this outlier is considered resolved.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

	r District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of # 2
ID : FO-2-1 (Rev. 0)	Class 21. Tanks and I	Heat Exchangers
Description : DAY TANK		
Building : AUX	Floor El. : 1017.00	Room, Row/Col : AB063 , 7E'K- 14N'1A
	ON - Tanks and Heat Exchangers guidelines which are not met. (Check m	nore than one if several guidelines coul
Shell Buckling		
Shell Buckling	adment	
Anchor Bolts and Embe		- <u>X</u>
	S	- <u>×</u> -×

RPK

Since this tank is mounted on a frame, which in turn is anchored to the wall, the tank does not fall within the GIP parameters for horizontal tanks. Therefore, it requires additional external evaluation and is initially classified as an outlier.

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories

RYK

Sight Glass Outling

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

RPK

See Sight Glase Outlint Recommendations

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

Material, location, size and connection detail for tank sight glass.

would consider this item of equipment to be verified for seismic adequacy).

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

12/6/93

05V5 F0-2-1 Sweet 2 12 Attachment 4

Recommended Resolutions for Sight Glass Outliers

Any one of the following can be used to resolve the sight glass outliers

- 1. Determine that the sight glass is made of plastic, break-resistant glass, or other tough material
- 2. Perform a lateral tug (pull) test with a force equal to about 3 times the weight of the glass plus contents.
- 3. Implement procedures to keep shut-off valve closed except when reading fluid level in tank so that sight glass is normally isolated from tank
- 4. Replace sight glass with a plastic, break-resistant glass, or other tough material.

R.P. Kennedy

11/26/93

1. Mathew 12/6/93

D-2-2 (Rev. 0) ption: DAY TAN ng: AUX	AND REAL PROPERTY AND ADDRESS OF THE PROPERTY ADDR	GIP Rev 2, Corrected SVS) Sheet 1 of + 2	0 2/14/92
ption : DAY TAN	ISMIC VERIFICATION SHEET (OS		
ng : AUX		anks and Heat Exchangers	
		Room, Row/Col : AB	OGA 7E'V
	Floor El.: 1017.00	15'2B	004 , /EK-
		1020	
	EFINITION - Tanks and Heat Exchan creening guidelines which are not met.		idelines could
Shell Buckling			-
Anchor Bolts ar	nd Embedment		=
Anchorage Cor	nections		*
Flexibility of Att	ached Piping		
Other			X
	ed method(s) for resolving outlier.	Bonail	
See 3	Fight Glass Outline Revo	momendations	
Provide informa fundamental fre	tion needed to implement proposed me quency).	ethod(s) for resolving outlier (e.g., e	stirnate of
	tion, size and connection detail for to	ank sight glass.	
Material, local			A AND DESCRIPTION OF THE PARTY

OSVS FO-2-2 Sheet 2 7 2 Attachment 4

Recommended Resolutions

Sight Glass Outliers

Any one of the following can be used to resolve the sight glass outliers

- Determine that the sight glass is made of plastic, break-resistant glass, or other tough material
- 2. Perform a lateral tug (pull) test with a force equal to about 3 times the weight of the glass plus contents.
- 3. Implement procedures to keep shut-off valve closed except when reading fluid level in tank so that sight glass is normally isolated from tank
- 4. Replace sight glass with a plastic, break-resistant glass, or other tough material.

Robert P. Kennedy

R.P. Kennedy

11/26/93

J.K. Mathew 12/6/93

	The state of the s	er District - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/92
		VERIFICATION SHEET (OSVS)	Sheet 1 of 1
	FW-19 (Rev. 0)	Class : 21. Tanks and	Heat Exchangers
-	AND AND AND ADDRESS OF THE PARTY OF THE PART	EEDWATER STORAGE TANK	Room, Row/Col : AB081 , 12WC
bilui	ling : AUX	Floor El. : 1045.00	3N'3A
. 01	UTLIER ISSUE DEFINIT	ION - Tanks and Heat Exchangers	
a.	Identify all the screening not be satisfied.)	g guidelines which are not met. (Check n	nore than one if several guidelines could
	Shell Buckling		
	Anchor Bolts and Emb	pedment	X
	Anchorage Connection	ns	X
	Flexibility of Attached	Piping	
	Transmity Services		
b.	Other Describe all the reason would consider this iter	s for the outlier (i.e., if all the listed outlien of equipment to be verified for seismic does not meet the maximum S/2 requirement	adequacy).
b.	Other Describe all the reason would consider this iter	s for the outlier (i.e., if all the listed outlien of equipment to be verified for seismic does not meet the maximum S/2 requirement	adequacy).
	Other Describe all the reason would consider this iter Since the tank overhang analysis. ROPOSED METHOD OF Defined proposed methods	n of equipment to be verified for seismic does not meet the maximum S/2 requirement of the countries of the	adequacy).
2. PI	Other Describe all the reason would consider this iter Since the tank overhang analysis. ROPOSED METHOD OF Defined proposed methors are all manual considered manual consi	n of equipment to be verified for seismic does not meet the maximum S/2 requirement of the countries of the	adequacy). ent the tank requires an external manual

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

12/2/93

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)			GIP Rev 2, Correct Sheet 1 of 1	cted 2/14/92
: GM-1 (Rev. 0)		Class : 20. Instrum	entation and Control Panel	s and Cabinets
escription :	AND DESCRIPTION OF THE PERSON			
ilding : AUX		Floor El. : 1036.00	Room, Row/Co! : . 12N'6	AB077 , 22WC-
	screening guideling	echanical and Electrical Ednes which are not met. (Che		al guidelines coul
Capacity vs.				
Caveats				X
Anchorage				
Seismic Inter	action			
Other				
Transmission and the second of the	A STATE OF THE STA	ouses AC-DC-1 and AI-4B wh		N N N N N N N N N N N N N N N N N N N
a. Defined propo	sed methoa(s) for			
	sed methoa's) for			
Connect the c	abinet housing GM-	resolving outlier.	minate potential impact.	g., estimate of
Connect the c	abinet housing GM-	resolving outlier.	minate potential impact.	g., estimate of
b. Provide inform fundamental f	abinet housing GM-	resolving outlier.	minate potential impact.	g., estimate of
Connect the c	abinet housing GM-	resolving outlier.	minate potential impact.	g., estimate of
Connect the composition of the c	abinet housing GM- nation needed to in requency).	resolving outlier. I to the adjacent cabinet to eliminate the second method method	minate potential impact.	
b. Provide information on CERTIFICATION	this OSVS is, to the	resolving outlier.	minate potential impact. (s) for resolving outlier (e.g.	ate, and resolution
b. Provide information on the outlier issues list	this OSVS is, to the	resolving outlier. I to the adjacent cabinet to eliminate the proposed method method the best of our knowledge and	minate potential impact. (s) for resolving outlier (e.g.	ate, and resolution

	District - Fort Calhoun Station (ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D: HCV-1107A (Rev. 0)	Class: 7 Fluid-Operati	
Description : STEAM GENERA	TOR RC-2A : AUXILIARY FEEDWATER	R INLET VALVE
Building : CONT	Floor El.: 1050.00	Room, Row/Col : CONT , 15WBB 9N'I
OUTLIER ISSUE DEFINITION		
not be satisfied.)		nore than one if several guidelines could
not be satisfied.)		
not be satisfied.) Capacity vs. Demand		nore than one if several guidelines could
not be satisfied.) Capacity vs. Demand Caveats		

Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories
would consider this item of equipment to be verified for seismic adequacy).

The grating above the pit, in which the valve is located, is not anchored.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Anchor the grating which is located above the pit.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

Verify tac welding of the grating.

Joseph Mathen

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

12/1/93

OUTLIER SEISMIC VERIFICATION SHEET (OSVS) DHOV-1108A (Rev 0) Class 7 Fluid-Operated Valves Description STEAM GENERATOR RC-2B : AUXILLARY FEEDWATER INLET VALVE Building : CONT Floor El : 1050 00 Room. Row/Col : CONT 31NII 1. OUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment a. Identify all the screening guidelines which are not met. (Check more than one if several guideline not be satisfied.) Capacity vs. Demand Caveats Anchorage Seismic Interaction Other b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. 2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estima fundamental frequency). Verify that - wellding of the grating. 4. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and it the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to seismic adequacy. Approved by: Date:		District - Fort Calhoun Station	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
Description STEAM GENERATOR RC-2B: AUXILIARY FEEDWATER INLET VALVE Suilding	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Class 7 Fluid Open	
Anchor the grating which is located above the pit. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. Describe information needed to implement proposed method(s) for resolving outlier (e.g., estimal fundamental frequency). Describe information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resisting adequacy. Room. Row/Col : CONT 31NII Room. Row/Col : ConT Sinil Room. Room. Room. Room. Room. Row/Cont Sinil Room.	: HCV-1108A (Rev. 0)		
DUTLIER ISSUE DEFINITION - Mechanical and Electrical Equipment a. Identify all the screening guidelines which are not met. (Check more than one if several guidelin not be satisfied.) Capacity vs. Demand Caveats Anchorage Seismic Interaction Other b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation demandation of the grating of the grating). Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to eleismic adequacy:	The second secon		Boom Bow/Col. CONT 14W/RE
a. Identify all the screening guidelines which are not met. (Check more than one if several guidelin not be satisfied.) Capacity vs. Demand Caveats Anchorage Seismic Interaction Other Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation fundamental frequency). Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to eleismic adequacy:	ilding : CONT	Floor El. : 1050.00	
Caveats Anchorage Seismic Interaction Other Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation fundamental frequency). Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to seismic adequacy:	a. Identify all the screening g		
Anchorage Seismic Interaction Other Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation demandal frequency). Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and reconstituted in the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be issuinc adequacy.	Capacity vs. Demand		
Seismic Interaction Other Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate fundamental frequency). Verify fac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and recombine outlier issues listed on the previous page will satisfy the requirments for this item of equipment to eismic adequacy:	Caveats		
Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation fundamental frequency). Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and in the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to eismic adequacy:	Anchorage		
b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the would consider this item of equipment to be verified for seismic adequacy). The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation demandation of the grating of the grating of the grating outlier (e.g., estimation on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to eleminic adequacy:	Seismic Interaction		X
The grating above the pit in which the valve is located is unanchored. The grating above the pit in which the valve is located is unanchored. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional) a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation demandation). Verify fac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and is the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be seignic adequacy:	Other		
a. Defined proposed method(s) for resolving outlier. Anchor the grating which is located above the pit. b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimation fundamental frequency). Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be seismic adequacy:	The grating above the pit is	n which the valve is located is unanchor	red.
Verify tac-welding of the grating. CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to seismic adequacy:			
CERTIFICATION: The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to seismic adequacy:		ed to implement proposed method(s)	for resolving outlier (e.g., estimate of
The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and rethe outlier issues listed on the previous page will satisfy the requirments for this item of equipment to seismic adequacy:	Verify tac-	welding of the grating	
seismic adequacy:	ne information on this OSVS is	s, to the best of our knowledge and b	pelief, correct and accurate, and resolution ents for this item of equipment to be verifi
Approved by: Joseph Mathew 12/1/			
toseph " James 124"	oproved by:	Matter	Date:
(1/1/1/	tose	for manes	1241/13

Omaha Public Power OUTLIER SEISMIC V	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
ID : HCV-1388B (Rev. 0)	Class: 7. Fluid-Operate	ed Valves
Description: RC-2A BLOW DO	WN ISOLATION VALVE	
Building AUX	Floor El. : 991.00	Room, Row/Col : AB013 , 8E'N 1S'6B

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	X
Anchorage	
Seismic Interaction	• • • • • • • • • • • • • • • • • • • •
Other	

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The valve's operator cantilever length is outside the earthquake experience database as shown in figure B.7-1 of GIP. Also, the stresses obtained from the 3g analysis were greater then the allowable stresses.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Perform an accurate analysis using the actual acceleration on the valve.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

The pipe stress analysis of the pipe which supports this valve.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by: 12/23/93

Adam ALDabbach 12/28/93

		ict - Fort Calhoun Station ICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
HCV-238	THE PARTY NAMED AND POST OF PERSONS ASSESSED.	Class : 7. Fluid-Operated	
		YSTEM LOOP IA : CHARGING LIN	
uilc ng : CO	THE RESIDENCE OF THE PARTY OF T	Floor El. 1999.00 974.0 REL	Room, Row/Col : CONT , 6WBB- 25N'I
		lechanical and Electrical Equipm	
	all the screening guide satisfied.)	nes which are not met. (Check mo	re than one if several guidelines could
\$4.000 per	city ve Demand		
Cave	THE RESIDENCE OF THE PARTY OF T		
Anche	and the second s		
A STATE OF THE PARTY OF THE PAR	nic Interaction		
Other			X
shift a	round. Also the unistru	the floor beneath the valve, but it is not frame which supports the tubing is ver	nissing one of its two anchor bolts and carry flexible, therefore it should be better
secure	d.		
Reanc	hor the accumulator and s	stiffen the unis, ut frame.	
	e information needed to nental frequency).	implement proposed method(s) for	resolving outlier (e.g., estimate of
L			The second secon
. CERTIFIC	ATION:		
The informathe outlier is	tion on this OSVS is, to sues listed on the previo	the best of our knowledge and belied bus page will satisfy the requirments	of, correct and accurate, and resolution for this item of equipment to be verified
The information of the outlier is seismic adec	tion on this OSVS is, to to sues listed on the previouscy:	the best of our knowledge and belied bus page will satisfy the requirments	of, correct and accurate, and resolution is for this item of equipment to be verified
4. CERTIFIC The informal the outlier is seismic adec	tion on this OSVS is, to to sues listed on the previouscy:	the best of our knowledge and belied bus page will satisfy the requirments	Date:
The information of the outlier is seismic adec	tion on this OSVS is, to to sues listed on the previouscy:	the best of our knowledge and belied bus page will satisfy the requirments	s for this item of equipment to be verific

	Omaha Public Power D		GIP Rev 2, Corrected 2/14/92 Sheet 1 oi 1	
	A STATE OF THE PARTY OF THE PAR	Class: 7 Fluid-Ope		
	ICV-240 (Rev. 0)			
minute present	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	4 : AUXILIARY SPRAY INLET VA	Room, Row/Col : CC	ONT 14WOD
uildi	ng : CONT	Floor El.: 1045.00	6N'I	, 1411.00
, OL		N - Mechanical and Electrical Eq		uidelines could
a.	not be satisfied.)	uidelines which are not met. (Chec	ok more than one in several go	7
	Capacity vs. Demand			
	Caveats	0.00		X
	Anchorage			
	Seismic Interaction			
	Other			
	The operator is supported f containment structure. The	from the containment shell while pipe ese two structures are independent,	e and valve body are supported therefore its is an OUTLIER.	from the interior
2. PI	ROPOSED METHOD OF O	UTLIER RESOLUTION (Optional	D.	
	Perform an analysis to dete	ermine the differential motion between the Pipe displacement	en the containment shell and into	erior structure at
a.	Perform an analysis to dete the valve. Check differential motion	(s) for resolving outlier.	en the containment shell and into	rigible WS
a.	Perform an analysis to dete the valve. Check differential motion	ermine the differential motion between the pipe displacement between two structures	en the containment shell and into	rigible WS
a.	Perform an analysis to dete the valve. Check differential motion	ermine the differential motion between the pipe displacement between two structures	en the containment shell and into	rigible WS
a. b.	Perform an analysis to dete the valve. Check differential motion Provide information neede fundamental frequency). ERTIFICATION:	ermine the differential motion between the pipe displacement between two structures	en the containment shell and into the along with beginning. (s) for resolving outlier (e.g., e.g., e.g.)	estimate of
a. b.	Perform an analysis to determ the valve. Check differential motion Provide information needer fundamental frequency). ERTIFICATION: Information on this OSVS is coutlier issues listed on the primic adequacy:	ermine the differential motion between the pipe displacement between two structured to implement proposed method	en the containment shell and into the along with beginning. (s) for resolving outlier (e.g., e.g., e.g.)	estimate of
a. b.	Perform an analysis to determ the valve. Check differential motion Provide information needer fundamental frequency). ERTIFICATION: Information on this OSVS is coutlier issues listed on the provided in t	ermine the differential motion between the pipe displacement between two structured to implement proposed method	the containment shell and into the along with beginners. (s) for resolving outlier (e.g., expenses to belief, correct and accurate, ments for this item of equipments.	estimate of

	The second secon	rict - Fort Calhoun Station FICATION SHEET (OSVS)	GIP Rev 2, Corre Sheet 1 of 1	ected 2/14/92
7 - 1	CV-2861 (Rev. 0)	Class: 7. Fluid-Opera		
and the same	ription: AMA 1410/93	Total Training		
	ing TURB SERVICE	Floor El. : 1007.00	Room, Row/Col : 24N'7	TURB . IWSA-
ot a.		Mechanical and Electrical Equip		12/10
	Capacity vs. Demand			
	Caveats			
	Anchorage			
	Seismic Interaction			X
	Other		Control of the Contro	
		the nurbine building and the nurbine	building was not seismi	ically designed, it is
	an outlier.	BATA 12/10/93	AMA 12/10/93	
	Lancing the second seco	Herry 11/13		The second secon
	Demica proposes menerale	or resolving outlier.		
	Calculate the seismic capacity	of the turbine building.		
			3	
b.	Calculate the seismic capacity	of the turbine building.		g., estimate of
4. C	Provide information needed to fundamental frequency).	of the aurbine building. Service AMA 12/10/9. Implement proposed method(s) f	for resolving outlier (e.g	
4. C	Provide information needed to fundamental frequency). ERTIFICATION:	of the nurbine building. Service AMA 12/10/9	for resolving outlier (e.g.	ate, and resolution
4. C	Provide information needed to fundamental frequency). ERTIFICATION: information on this OSVS is, to outlier issues listed on the previous	of the nurbine building. Service AMA 12/10/9 implement proposed method(s) for the best of our knowledge and be	for resolving outlier (e.g	ate, and resolution

OUTLIES	Public Power Distr R SEISMIC VERIF	GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1		
) : HCV-403C (F		Class 7 Fluid-Ope	rated Valves	
		G COIL : CCW OUTLET VALV		
uilding : AUX		Floor El. : 1027.00	Room, Row/Col : AB06 3N'6C	9 , 2WP-
OUTLIER ISSI	UE DEFINITION - M	lechanical and Electrical Equ	ipment	
Identify all to not be satisfact.		lines which are not met. (Check	more than one if several guide	elines could
THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	vs. Demand			
Caveats				
Anchorage	e			
Seismic Ir	nteraction			X
Other				
would cons	sider this item of equ	ipment to be verified for seism	lier issues were resolved, then ic adequacy).	
an outlier.		itu italie ii de longitatila des		
a Defined or		IER RESOLUTION (Optional)		
	oposed method(s) for	or resolving outlier.	ne to calculated the deflections at	the valve are
Perform a	oposed method(s) for analysis on the stru	or resolving outlier. I frame and the supporting pipeling		
b. Provide inf	oposed method(s) for analysis on the structure formation needed to tal frequency).	or resolving outlier. I frame and the supporting pipeling	ne to calculated the deflections at	
b. Provide inffundament	oposed method(s) for analysis on the structure formation needed to tal frequency).	or resolving outlier. It frame and the supporting pipeling implement proposed method(s	ne to calculated the deflections at section of the	mate of
b. Provide inffundament	oposed method(s) for analysis on the structure formation needed to all frequency). ION: on this OSVS is, to a listed on the previous	or resolving outlier. It frame and the supporting pipeling implement proposed method(s) the best of our knowledge and	ne to calculated the deflections at	mate of
b. Provide infundament CERTIFICATI The information he outlier issues	oposed method(s) for analysis on the structure formation needed to all frequency). ION: on this OSVS is, to a listed on the previous	or resolving outlier. It frame and the supporting pipeling implement proposed method(s) the best of our knowledge and	belief, correct and accurate, an	mate of

		District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D L	CV-101-1 (Rev. 0)	Class: 7. Fluid-Operate	ed Valves
Desci	ription : AIR-OPERATED V	ALVE LCV-101-1	
Buildi	ing : CONT	Floor El. 997.00	Room, Row/Col : CONT , 9WEE 17NIII
a.	Identify all the screening on not be satisfied.) Capacity vs. Demand	guidelines which are not met. (Check m	nore than one if several guidelines could
	Caveats		X
			The second secon
	Proper and continues are selected. As proper to the selection of the selec		
	Anchorage		
	Anchorage Seismic Interaction Other	or the outlier (i.e. if all the listed outlier	issues were resolved, then the signator
b.	Anchorage Seismic Interaction Other Describe all the reasons to would consider this item of this piston (see Section 1).	of equipment to be verified for seismic a	and the cantilever offset does not meet the
2. PF	Anchorage Seismic Interaction Other Describe all the reasons to would consider this item of the post of this piston / sequirements of figure B. allowable stresses. ROPOSED METHOD OF Consideration of the proposed method	pring operated valve is made of cast iron 7-2 of the GIP. Also, the stresses obtained	adequacy). and the cantilever offset does not meet the from the 3g analysis were greater then the

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for

Date:

4. CERTIFICATION:

seismic adequacy:

Approved by:

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D: LCV-101-2 (Rev. 0)	Class: 7. Fluid-Operat	ed Valves
Description : AIR-OPERATED	VALVE LCV-101-2	
Building : CONT	Floor El. : 997.00	Room, Row/Col: CONT , 10WEE 20NII
	ION - Mechanical and Electrical Equip	ment nore than one if several guidelines could

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The yoke of this piston / spring operated valve is made of cast iron and the cantilever offset does not meet the requirements of figure B.7-2 of the GIP. Also, the stresses obtained from the 3g analysis were greater then the allowable stresses.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

러.	Defined	proposed	method(s)	ior resolving	outilet.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

The pipe stress analysis of the pipe which supports this valve.

Perform an accurate analysis using the actual acceleration on the valve.

4. CERTIFICATION:

Anchorage

Other

Seismic Interaction

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:	MAN	Date: /2/23/ 93
	Joseph Mathew	1/4/94

	r District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
D : MCC-3A2 (Rev. 0) Class : 1 Motor Control Centers			
	OL CENTER: FED FROM 1B3A-3		
Building : AUX	Floor El. : 989.00	Room, Row/Col : AB004 , 1WQ- 5S'7A	
	ON - Mechanical and Electrical Equip		
Identify all the screening not be satisfied.)	ON - Mechanical and Electrical Equipout guidelines which are not met. (Check m		
a. Identify all the screening not be satisfied.) Capacity vs. Demand			
a. Identify all the screening not be satisfied.) Capacity vs. Demand Caveats		nore than one if several guidelines could	
a. Identify all the screening not be satisfied.) Capacity vs. Demand		nore than one if several guidelines could	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for

Adam Aharbay

Date:

would consider this item of equipment to be verified for seismic adequacy).

2. There are no bolts in the rear of the cabinets, therefore the anchorage is insufficient.

1. MCC-3A2 is not attached to the adjacent cabinet, MCC-4C2.

2, PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Attach MCC-3A2 to its adjacent cabinet, MCC-4C2.
 Provide sufficient anchorage in the rear of the cabinets.

Defined proposed method(s) for resolving outlier.

fundamental frequency).

4. CERTIFICATION:

seismic adequacy:

Approved by:

Omaha Public Power E. strict - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)			GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1		
ID : MCC-3B1 (Rev. 0) Class : 1. Motor Contr			ol Centers		
pecciption: MOTOP	CONTROL CE	NTER : FED FROM 1B3B-2	and the state of t		
uilding AUX	CONTROL CL	Floor El.: 1013.00	Room, Row/Col : AB 5S'4A	057 , 2WD-	
	creening guide	Mechanical and Electrical Equipolities which are not met. (Check m		idelines could	
Capacity vs. [emand				
Caveats					
Anchorage				X	
Seismic Intera	ection	A AND AND AND AND AND AND AND AND AND AN			
Other	ionor)				
The anchorage analysis.	is insufficient be	ecause anchor #5 will not torque to to	ight and can not be used in t	he anchorage	
	nten the loose an	for resolving outlier.			
b. Provide inform	ation needed to	o implement proposed method(s) for	or resolving outlier (e.g., e	estimate of	
4. CERTIFICATION		the best of our knowledge and be	elief correct and accurate.	and resolutio	
the outlier issues lis seismic adequacy:	ned on the previ	ous page will satisfy the requirmen	nts for this item of equipme	ent to be verif	
Approved by:	Onio	of Mathen	Date:	2/21/93	
	Pole	est P. Kenn Os	/.	2/30/	

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	District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1
ID : MCC-4A1 (Rev. 0)	Class: 1. Motor Contro	ol Centers
Description : MOTOR CONTRO	L CENTER : FED FROM 1B4A-2	
Building : AUX	Floor El. : 1013.00	Room, Row/Col : AB057 , 10WD- 14N'4

a. Identify all the screening guidelines which are not met. (Check more than a veral guidelines could not be satisfied.)

Capacity vs. Demand		
Caveats	-	
Anchorage		X
Seismic Interaction		X
Other		

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).
 - 1. The overhead lights are on open hooks.
 - 2. The desk/storage cabinet located behind MCC-4A1 is a possible interaction.
 - 3. The anchorage is insufficient because anchor #12 will not torque to tight and can not be used in the analysis.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Defined proposed method(s) for resolving outlier.
 - 1. Close the open hooks that support the overhead lights.
 - 2. Anchor the desk / storage cabinet in place.
 - 3. Replace or tighten the loose anchor bolt.
- Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

Desk anchored per MR-FC-93_D18 during '93 refueling outage.				

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

12/21/93

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)			GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1
D : MCC-4C1 (Rev. C		Class: 1. Motor Cont	rol Centers
		TER ; FED FROM 1B4C-2	
uilding : AUX		Floor El.: 1013.00	Room, Row/Col : AB057 , 10W 10N'3
OUTLIER ISSUE D	EFINITION - Me	echanical and Electrical Equi	pment
a. Identify all the so	creening guidelin	nes which are not met. (Check	more than one if several guidelines cou
u. u.a.a.			
Capacity vs. De	emano		
Caveats			
Anchorage			X
Seismic Interac	ction		
Other			
		ER RESOLUTION (Optional) r resolving outlier.	
a. Defined propose			nooks.
a. Defined propose	ed method(s) for	on lights on open h	for resolving outlier (e.g., estimate of
a. Defined propose General b. Provide informa	ed method(s) for	on lights on open h	
a. Defined propose General b. Provide information fundamental free	ed method(s) for	on lights on open h	
a. Defined propose General b. Provide information fundamental free	ed method(s) for C OSVS	on lights on open h	for resolving outlier (e.g., estimate of
a. Defined propose General b. Provide information and the information on the the outlier issues lister	ed method(s) for C OSVS	mplement proposed method(s)	
b. Provide information on the outlier issues listes seismic adequacy:	ed method(s) for C OSVS	mplement proposed method(s)	for resolving outlier (e.g., estimate of elief, correct and accurate, and resolutents for this item of equipment to be ve
b. Provide information on the	ed method(s) for C OSVS	mplement proposed method(s)	for resolving outlier (e.g., estimate of

	VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2
ID : MCC-3B3 (Rev. 0)	Class: 1. Motor Contro	oi Centers
Description: <4 KV BUS MC	C-3B3 FAULT - EPS	
Building : INTK	Floor El. : 1007.00	Room, Row/Col : INTK , 10WCC- 3N101

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	
Anchorage	X
Seismic Interaction	X
Other	

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

Weld capacity is insufficient also only 4 conner welds are used for 5 bays. Concern for load path since the base channel is thin gauge cold formed sheet metal; load is applied through self tapping 1/4" screws in the web area while the weld is at the tip of flange, this will result in significant weak way bending and torsion in the channel.

Seismic interaction from roof collapse, as the roof was not seismically designed.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Provide additional welds to MCC, front and back base channels on the inner and outer flanges in the middle bay. Determine the roof capacity.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

Use appropriate shim plates to transfer load.

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

OUTLIER SEISMIC	GIP Rev 2, Corrected 2/14/92 Sheet 2 of 2	
ID : MCC-3B3 (Rev. 0)	Class : 1. Motor Contro	ol Centers
Description : <4 KV BUS MC	C-3B3 FAULT - EPS	
Building : INTK	Floor El.: 1007.00	Room, Row/Col : INTK , 10WCC- 3N101
Assessed by		Date
Approved by:		
	n. Don Toware	10-21-94

OUTLIER SEISMIC VE	FRIFICATION SHEET (OSVS) + Calhoun Station	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2
ID : MCC-4C4 (Rev. 0)	Class: 1. Motor Contro	ol Centers
Description: <4 KV BUS MCC-4	C4 FAULT - EPS	
Building : INTK	Floor El. : 1007.00	Room, Row/Col: INTK , 0WCC- 3N'10

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	
Anchorage	X
Seismic Interaction	X
Other	

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

Weld capacity is insufficient also only 4 conner welds are used for 5 bays. Concern for load path since the base channel is thin gauge cold formed sheet metal; load is applied through self tapping 1/4" screws in the web area while the weld is at the tip of flange, this will result in significant weak way bending and torsion in the channel.

Seismic interaction from roof collapse, as the roof was not designed seismically.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Provide additional welds to MCC, front and back base channels on the inner and outer flanges in the middle bay. Determine the roof capacity.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

Use appropriate shim plates to transfer load,

3. COMMENTS

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

ERIFICATION SHEET (OSVS) Calhoun Station.	Sheet 2 of 2
Class : 1. Motor Contro	ol Centers
C4 FAULT - EPS	
Floor El.: 1007.00	Room, Row/Col: INTK , 0WCC- 3N'10
	Date:
7. Place Bevare	10-21-94
eph Mathew	10-21-94
	Class: 1. Motor Control C4 FAULT - EPS

The second secon	Power District - Fort Calhoun Station MIC VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID: NE-001 (Rev. 0)	Class: 0. Other	and the second s
Description: WIDE RAN	GE LOGARITHMIC NUCLEAR DETECTOR	
Building : CONT	Floor El.: 1000.00	Room, Row/Col : CONT , 18WBB- 0NIII

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	To the Hardy
Caveats	
Anchorage	
Seismic Interaction	
Other	X

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is a Class O equipment.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Based on existing IEEE-344 qualification, this equipment is accepted.

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

This outlier is considered resolved based on existing IEEE-344 qualification.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

THE RESERVE AND A SECOND PARTY OF THE PARTY	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1
ID : NE-004 (Rev. 0)	Class: 0. Other	
Description: WIDE RANGE I	OGARITHMIC NUCLEAR DETECTOR	
Building : CONT	Floor El.: 1000.00	Room, Row/Col : CONT , 18WBB- 0NIII

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	
Anchorage	
Seismic Interaction	
Other	X

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is a Class O equipment.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Based on existing IEEE-344 qualification, this equipment is accepted.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

The outlier is considered resolved based on existing IEEE-344 qualification.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

11394

1/14/94

	ower District - Fort Calhoun Station MIC VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID : PI-2857-1 (Rev. 0)	Class: 18. Instrume	nts on Racks
	ER PUMP DISCHARGE PRESSURE	
Building : INTK	Floor El.: 998.00	Room, Row/Col : INTK , 17WBB8N104
	INITION - Mechanical and Electrical Equ	
 a. Identify all the screen not be satisfied.) 	ening guidelines which are not met. (Chec	k more than one if several guidelines co
Capacity vs. Dema	and	
Caveats		
Anchorage		X
Seismic Interaction	n	
Other		
signatories would co	sons for the outlier (i.e., if all the listed out onsider this item of equipment to be verified 2 of the anchors were loose.	ed for seismic adequacy).
OUTLIER because 2	of the anchors were loose.	
b. Provide information	n needed to implement proposed method(s	s) for resolving outlier (e.g., estimate of
fundamental freque		
Processing and the second		
B. COMMENTS		
. CERTIFICATION:		
	SVS is, to the best of our knowledge and	
he outlier issues listed on or seismic adequacy:	the previous page will satisfy the requirm	nents for this item of equipment to be ver
Approved by:		Date:
	Adam AhDabba	gh 11/3/93
	Whit	12/1/93
	X XXII	1/

Omaha Public Power D	istrict - Fort Calhoun Station RIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : RC-4-HTRS-10 (Rev. 0)	Class: 0. Other	
Description PZR BACKUP HEAT	TER GROUP	
Building : CONT	Floor El.: 1047.00	Room, Row/Col : CONT , 6WDD
OUTLIER ISSUE DEFINITION	- Mechanical and Electrical Equip	

Capacity vs. Demand	
Caveats	
Anchorage	
Seismic Interaction	
Other	

Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories
would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is a Class O equipment.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

The heater is welded to the pressurizer. Based on obvious seismic ruggedness, this item is accepted.

 b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

This outlier is considered resolved based on the obvious seismic ruggedness of the equipment.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

1/14/94

	market a market a market and a market and a	strict - Fort Calhoun Station IFICATION SHEET (OSVS)	GIP Rev 2. Corrected 2/14/92 Sheet 1 of 1
D:R	C-4-HTRS-11 (Rev. 0)	Class: 0. Other	
Descri	ption : PZR BACKUP HEATE	R GROUP	
Buildir	ng : CONT	Floor El.: 1047.00	Room, Row/Col : CONT , 6WDD- 19N'I
a.	To Table 1	Mechanical and Electrical Equipole delines which are not met. (Check r	ment more than one if several guidelines could

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories

would consider this item of equipment to be verified for seismic adequacy).

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

OUTLIER because it is a Class O equipment.

Denned	proposed	method(s) for	resolving outlier.	

The heater is welded to the pressurizer. Based on obvious seismic ruggedness, this item is accepted.

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3, COMMENTS

Seismic Interaction

Other

This outlier is considered resolved based on the obvious seismic ruggedness of the equipment.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:		Date:
	Closeph Mathew	1/13/94
	1/1/20	1/14/94

	strict - Fort Calhoun Station IFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : RC-4-HTRS-12 (Rev. 0)	Class: 0. Other	
Description : PZR BACKUP HEATE	R GROUP	
Building : CONT	Floor El.: 1047.00	Room, Row/Col: CONT , 6WDD- 19N'I
	Mechanical and Electrical Equip	
 a. Identify all the screening guid not be satisfied.) 	delines which are not met. (Check m	nore than one if several guidelines could
	delines which are not met. (Check m	nore than one if several guidelines could
not be satisfied.)	delines which are not met. (Check m	nore than one if several guidelines could
not be satisfied.) Capacity vs. Demand	delines which are not met. (Check m	nore than one if several guidelines could
Capacity vs. Demand Caveats	delines which are not met. (Check m	nore than one if several guidelines could

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

OUTLIER because it is a Class O equipment.

would consider this item of equipment to be verified for seismic adequacy).

a.	Defined proposed method(s) for resolv	ring outlier.	
	The heater is welded to the pressurizer.	Based on obvious seismic ruggedness, this item is accepted	

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

This outlier is considered resolved based on the obvious seismic ruggedness of the equipment.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

O seph Mathew

1/13/94

1/14/94

	ower District - Fort Calhoun Station IC VERIFICATION SHEET (OSVS)	Sheet 1 of 72	
SA-3A-1 (Rev. 0)	Class : 21. Tanks and	d Heat Exchangers	
scription : DG-1 STARTI	The second secon		
ding : AUX	Floor El.: 1025.00	Room, Row/Col : AB0 16N'1	963 , 16WD-
DUTLIER ISSUE DEFIN	IITION - Tanks and Heat Exchangers		
Identify all the screen not be satisfied.)	ning guidelines which are not met. (Check	more than one if several guid	delines could
Shell Buckling			
Anchor Bolts and E			X
Anchorage Connec			
Flexibility of Attache	ed Piping		
Other			
1 The tank is not we	tem of equipment to be verified for seismic		Late working the 1
12 American and the second	and thome which in him is anchored		-Lan Midnin mic
	manufed on a trame which in turn is anchored	mal external evaluation and is	initially
GIP parameter for he elassified as an outlin	mounted on a frame which in turn is anchored orizontal tanks. Therefore, it requires addition	unal external evaluation and is	initially
PROPOSED METHOD Defined proposed m	orizontal tanks. Therefore, it requires additions OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier.	unal external evaluation and is	initially
PROPOSED METHOD Defined proposed m	orizontal tanks. Therefore, it requires additions OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier.	nnal external evaluation and is	initially
PROPOSED METHOD Defined proposed m	orizontal tanks. Therefore, it requires addirect OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. Was start of the outlier to proposed method(s)	ermon dation	nitially
PROPOSED METHOD Defined proposed m External manual and SPP Provide information	orizontal tanks. Therefore, it requires addirect OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. Was start of the outlier to proposed method(s)	ermon dation	nitially
PROPOSED METHOD Defined proposed m Exercic manual and SPP Provide information fundamental frequer	orizontal tanks. Therefore, it requires addirect OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. Was start of the outlier to proposed method(s)	ermon dation	nitially
PROPOSED METHOD Defined proposed m External manual and SPP Provide information fundamental frequer CERTIFICATION: e information on this Os outlier issues listed on	orizontal tanks. Therefore, it requires addirect OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. Was start of the outlier to proposed method(s)	for resolving outlier (e.g., es	timate of
PROPOSED METHOD Defined proposed m External manual and SPP Provide information fundamental frequer CERTIFICATION: e information on this Os outlier issues listed on	OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. beis needed to implement proposed method(s) ncy).	for resolving outlier (e.g., es	timate of
PROPOSED METHOD Defined proposed m External manual and SPP Provide information fundamental frequer CERTIFICATION:	OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. beis needed to implement proposed method(s) ncy).	for resolving outlier (e.g., es	timate of

0515 5A-3A-1 Sheet 2 72

Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/43

1/K. Mathew 12/6/93

The second of th	THE RESERVE OF THE PROPERTY OF	ct - Fort Calhoun Station CATION SHEET (OSVS)	GIP Rev 2, Corrected Sheet 1 of 2	d 2/14/92
SA-3A-2 (Rev	AND REAL PROPERTY OF THE PARTY	Class : 21. Tanks an		
	STARTING AIR RE		d freat Exertaingers	
ding: AUX	STARTING AIR RE	Floor El.: 1027.00	Room, Row/Col : AB	064 . 3E'F-
aling AUA		11001 El. 1021.00	2S'2B	
	e screening guideli ied.)	nks and Heat Exchangers nes which are not met. (Check	more than one if several gu	idelines could
	ts and Embedment			-*-
	Connections			X
Authorities management of America	f Attached Piping			la chiadan
Other	Tritted triping			
GIP parame	eter for horizomal tan an outlier.	a frame which in turn is anchore	onal external evaluation and is	initially
Classified and Classi	ETHOD OF OUTLI	ER RESOLUTION (Optional) r resolving outlier.	onal external evaluation and is	initially
GIP parame classified as PROPOSED M. Defined pro	ETHOD OF OUTLI posed method(s) for moral analysis. For Tank St.	ER RESOLUTION (Optional)	on a coda liek	initially
PROPOSED M Defined pro External m Or Provide information of	ETHOD OF OUTLI posed method(s) for mation needed to it if frequency). ON: In this OSVS is, to the listed on the previous	ER RESOLUTION (Optional) r resolving outlier. Fup Outlier Reso	onal external evaluation and is or a code link) for resolving outlier (e.g., e	stimate of

05V5 5A-3A-2 Sheet 2 72

Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/43

J.K. Mathew 12/6/93

	trict - Fort Calhoun Station IFICATION SHEET (OSVS)	Sheet 1 of 2
A-3B-1 (Rev. 0)	Class : 21. Tanks ar	nd Heat Exchangers
ription : DG-1 STARTING AIR I	RECIEVER	
ng : AUX	Floor El.: 1029.00	Room, Row/Col : AB063 , 16WD- 16N'1
	Tanks and Heat Exchangers elines which are not met. (Checi	k more than one if several guidelines could
Shell Buckling		
Anchor Bolts and Embedme	ent	
Anchorage Connections		X
Flexibility of Attached Piping	1	
Other		
The state of the s	on a marke which in the same addition	ed to the wall, the tank does not fall within the
GIP parameter for horizontal classified as an outlier.	TLIER RESOLUTION (Optional)	nonal external evaluation and is initially
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s)	TLIER RESOLUTION (Optional) for resolving outlier.	nonal external evaluation and is initially
GIP parameter for horizontal classified as an outlier.	LIER RESOLUTION (Optional) for resolving outlier.	nonal external evaluation and is findany
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s) External manual scalaris and scalaris are for horizontal and scalaris.	THE RESOLUTION (Optional) for resolving outlier.	monen de tion
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s) External manual scalaris and scalaris are for horizontal and scalaris.	THE RESOLUTION (Optional) for resolving outlier.	nonal external evaluation and is findany
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s) Frovide information needed to	THE RESOLUTION (Optional) for resolving outlier.	monen de tion
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s) Frovide information needed to	THE RESOLUTION (Optional) for resolving outlier.	monen de tion
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s) Frovide information needed to fundamental frequency).	THE RESOLUTION (Optional) for resolving outlier.	monen de tion
GIP parameter for horizontal classified as an outlier. ROPOSED METHOD OF OUT Defined proposed method(s) Frovide information needed to	THE RESOLUTION (Optional) for resolving outlier.	monen de tion
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05V5 5A-3B-1 5Reet 202

Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/43

J. K. Mathew 12/6/93

OHTHERSE	the state of the s	ict - Fort Calhoun Station ICATION SHEET (OSVS)	GIP Rev 2, Correcte Sheet 1 of 2 2	0 2/14/92
SA-3B-2 (Rev. 0)	TOMICO VEIGH	Class : 21. Tanks and	The second secon	
cription : DG-2 ST	ARTING AIR R	AND THE PARTY OF T		
ding : AUX		Floor El.: 1032.00	Room, Row/Col : AE 2S'2B	3064 , 3E'F-
UTLIER ISSUE D	EFINITION - T	anks and Heat Exchangers		
Identify all the e	arooning quido	ines which are not met. (Check	more than one if several di	uidelines could
not be satisfied.		ines which are not met. (Onoth	more than one is serviced g	
Shell Buckling				
Anchor Bolts a	nd Embedmen	t .		-×
Anchorage Co	nnections			X
Flexibility of At	COMMANDE STATE OF THE PARTY OF			
Other				
1. The tank is n 2. Since this tan	k is mounted or	a frame which in turn is anchored	i to the wall, the tank does no	ot fall within the
CID parameter	7	I THE CONTRACT AND INC.	nal external evaluation and is	initially
I CHE Darameter	for horizontal la	aks, I heretore, it requires addition	Trees average a construction of	· cara sassas ;
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Provide information on thoutlier issues listering adequacy:	outher. HOD OF OUTL ed method(s) for the second s	or resolving outlier. Outlier Recommendation proposed method(s) the best of our knowledge and b	for resolving outlier (e.g., e	estimate of
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05V5 5A-3B-2 Seet 2 of 2 Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- 2. Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/43

			ort Calhoun Station ION SHEET (OSVS)	GIP Rev 2, Co	orrected 2/14/92
A-4A-1 (Rev. 0)	ISMIC VE	KIFICAT	Class: 21. Tanks an		
iption : DG-1 ST	A D TINIC A	ID DECIEV	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	d Heat Exchangers	
THE REPORT OF THE PARTY OF THE	A DMITH	Commence of the Commence of th	ocr El.: 1029.00	Room Row/C	ol: AB063 , 0WF-
ng : AUX		FK	OGI EI 1029.00	16N'1A	or . Abood , 0111
** IFF 1001IF D	PEIGUELOA	1/40000	and the staff water many		
TLIER ISSUE D	EFINITION	y - Tanks a	and Heat Exchangers		
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not be satisfied.		uldelines w	men are not met (check	Thore than one il sovi	erai gaidomico codi
not be satisfied.					
Shell Buckling		-			
Anchor Bolts a	nd Embed	ment	AND THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRE		-X
Anchorage Cor					X
Flexibility of Att	where the could recoverable to the first the course	ina			
Other	1 ip	9			
30101				AND RESIDENCE OF THE PROPERTY	
Describe all the	reasons fo	r the outlie	r (i.e., if all the listed outli	er issues were resolv	ed, then the signate
would consider t	this item of	equipmen	t to be verified for seismic	c adequacy).	
Would Consider	ina item o	equipmon	. 10 20 1011112		
1. The tank is no	ot welded to	the saddle	\$		
1. THE IMER IS IN	Of Welded I	d on a fran	ne which in turn is anchored	to the wall, the tank	loes not fall within the
Teman Inis Ian	k is mounte				
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GIP parameter t	or horizont	al tanks	herefore, 4 sequires addition	onai external evaluation	and is initially
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05V5 SA- # A-1 Sheet 2 of 2

Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/43

IK Mathew

	er District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2
D : SA-4A-2 (Rev. 0)	Class : 21. Tanks and I	
Description : DG-2 STARTING	The state of the s	
Juilding : AUX	Floor El. : 1027.00	Room, Row/Col : AB064 , 4WF- 2S'2B
Shall Buckling Anchor Bolts and Emb		- X
Anchorage Connection Flexibility of Attached	the state of the s	
Other	riping	
would consider this iter	es for the outlier (i.e., if all the listed outlier in of equipment to be verified for seismic and to the saddles. Sunted on a frame which in turn is anchored to the saddles. Therefore, it requires additional tanks.	o the wall, the tank does not fall within the
GIP parameter for horizolassified as an outlier.		

	information needed to implement proposed method(s) for resolving outlier (e.g., estimate of ental frequency).
lundame	sinds nequency).

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

Robert P. Kennede 11/25/93

Queeph Mathew 12/6/93

05 V S 5 A - 4 A - 2 5 Leet 2 0 2 Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/43

JK. Mathew

	ower District - Fort Calhoun Station IC VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1 2-
SA-4B-1 (Rev. 0)	Class 21. Tanks and	
scription : DG-1 STARTI		2 Float Excitating of the second of the seco
Iding : AUX	Floor El.: 1025.00	Room, Row/Col: AB063, 0WF- 16N'1A
	NITION - Tanks and Heat Exchangers ning guidelines which are not met. (Check	more than one if several guidelines could
Shell Buckling	A SEPARATE AND SEPARATE SEPARA	
Anchor Bolts and E	mbedment	-X
Anchorage Connec	tions	X
Flexibility of Attache	ed Piping	
Other		
GIP parameter for h	mounted on a frame which in turn is anchored orizontal tanks.—Therefore, it requires additions.	nal external evaluation and is initially
GIP parameter for he classified as an outlied	orizontal tanks. Therefore, it requires addition	nal external evaluation and is initially
GIP parameter for he classified as an outlied	orizontal tanks. Therefore, it requires additioner.	nal external evaluation and is initially
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GIP parameter for he classified as an outlied proposed METHOD a. Defined proposed method prop	orizontal tanks.—Therefore, it requires additioner. OF OUTLIER RESOLUTION (Optional) ethod(s) for resolving outlier. lysis. needed to implement proposed method(s)	or en da libr
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05 V S 5A - 4B - 1 58 est 2 of 2-Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

11/26/93

1.K. Mathew 12/6/93

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2		
THE RESIDENCE OF THE PROPERTY	B-2 (Rev. 0) Class: 21. Tanks and Heat Exchangers			
scription : DG-2 STAR	ING AIR RECIEVE	NAME AND ADDRESS OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.		AND DESCRIPTION OF THE PERSON
iding : AUX		por El. : 1032.00	Room, Row/Col : AB06- 2S'2B	4 , 4WF-
Identify all the screenot be satisfied.) Shell Buckling	ening guidelines w	hich are not met. (Check	more than one if several guide	elines could
Anchor Bolts and	Embedment			-
Anchorage Conne	The second secon			X
Flexibility of Attack	ned Piping			
Other				
classified as an out	lier.		nal external evaluation and is ini	ill within the
classified as an out	O OF OUTLIER RE	ESOLUTION (Optional)	nai externai evaluation and is in	itially
PROPOSED METHOR a. Defined proposed	O OF OUTLIER RE	ESOLUTION (Optional) lving outlier.		itially
PROPOSED METHOR Defined proposed External manual ar	method(s) for reso	ESOLUTION (Optional) Iving outlier. POUT/ing Reso		idally
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05V5 5A-4B-2 Sheet 2 of 2 Attachment 5

Recommended Resolutions for Tank Strap Outliers

Either of the following can be used to provide adequate longitudinal restraint for these tanks:

- 1. Spot weld the tank either to its support or the tank strap
- 2. Tighten the tank strap down onto the tank sufficiently to develop a normal force at least 5 times the product of the tank weight times the maximum 4% damped spectral acceleration

R.P. Kennedy

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : VA-1A (Rev. 0) Class : 10. Air Handlers		
Description : CNTMT CLG &	FILTER UNIT VA-15A; COOLING COIL	
Building : CONT	Floor El. : 1060.00	Room, Row/Col : CONT , 24WAA- 30NII

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	X
Caveats	X
Anchorage	X
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because the equipment and anchorage capacities are unknown.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

An analysis of the bracing system should be performed to determine the natural frequency and to show that the bracing and anchorage are structurally adequate.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

Approved by:	1	Date:
	A	1/21/94
	FELEW	1/26/94

	Pr District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID: VA-1B (Rev. 0)	Class: 10. Air Handler	S
Description : CNTMT CLG & I	FILTER UNIT VA-15B; COOLING COIL	
Building : CONT	Floor El.: 1060.00	Room, Row/Col : CONT , 24WAA- 12NII

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	X
Caveats	X
Anchorage	X
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because the equipment and anchorage capacities are unknown.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

An analysis of the bracing system should be performed to determine the natural frequency and to show that the bracing and anchorage are structurally adequate.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

Approved by:	Date:
14=72	1/21/94
Rew.	1/26/94

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		GIP Rev 2, Corrected 2/14/92 Sheet 1 of 2	
ID: VA-3A (Rev. 0) Class: 9. Fans			
Description : CONTAINMEN	T AIR RECIR FAN		
Building : CONT	Floor El. : 1060.00	Room, Row/Col : CONT , 18WAA- 39NII	

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	X
Caveats	X
Anchorage	X
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is supported by vibration isolators and demand exceeds capacity.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Tie the isolators down appropriately to prevent uplift and axial displacement.

Qualify seismic adequacy by reviewing IEEE qualification data for this or other similar fans, or perform a dynamic analysis.

b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)			GIP Rev 2, Corrected 2/14/92 Sheet 2 of 2	
ID: VA-3A (Rev. 0)		Class : 9. Fans		
Description : CONTA	INMEN I AIR RECIR	FAN		
Building : CONT	F	loor El.: 1060.00	Room, Row/Col : CON 39NII	NT , 18WAA-
Approved by:	Relewi		Date:12	122/93
	1			10.194

Omaha Public Power District - Fort Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		
ID: VA-3B (Rev. 0) Class: 9. Fans		
Description: CONTAINMEN	T AIR RECIR FAN	
Building : CONT	Floor El.: 1060.00	Room, Row/Col : CONT , 18WAA- 3NIII

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	X
Caveats	X
Anchorage	X
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

OUTLIER because it is supported by vibration isolators and demand exceeds capacity.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

Tie the isolators down appropriately to prevent uplift and axial displacement.

Qualify seismic adequacy by reviewing IEEE qualification data for this or other similar fans, or perform a dynamic analysis.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

4. CERTIFICATION:

14/52	GIP Rev 2, Corrected 2/14/99 Sheet 2 of 2	Omaha Public Power District - For Calhoun Station OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		
		Class: 9. Fans	ID: VA-3B (Rev. 0)	
		V	Description : CONTAINMENT AIR R	
, 18W.AA-	Room, Row/Col : CONT , 18 3NIII	El.: 1060.00	Building : CONT	
-		A STATE OF THE PARTY OF THE PAR		

Approved by:

1/10/94

	r District - Fort Calhoun Station /ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
D : WD-21 (Rev. 0)	Class : 21. Tanks and	Heat Exchangers
Description:	The second secon	
Building : AUX	Floor El. : 1010.00	Room, Row/Col : AB030 , 22W'T- 14N'7
	ON - Tanks and Heat Exchangers guidelines which are not met. (Check m	nore than one if several guidelines could

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

Since this tank is supported on a 6' high steel frame with numerous legs, which in turn are welded to a steel base skid, the tank does not fall within the GIP parameters for horizontal tanks. Therefore, it requires additional external evaluation and is initially classified as an outlier.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Anchorage Connections
Flexibility of Attached Piping

Other

Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).		External manual analysis.
	-	

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Adam AhRabbagh

Approved by:

Date:

11/24/93

	District - Fort Calhoun Station ERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID: YCV-1045 (Rev. 0)	Class 7. Fluid-Operation	ted Valves
Description : AUX FEEDWATE	R PUMP FW-10; INLET VALVE	
Building : AUX	Floor El.: 996.00	Room, Row/Col : AB019 , 6WC- 1N'3A

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Caveats	X
Anchorage	
Seismic Interaction	
Other	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The valve's operator cantilever length is outside the earthquake experience database as shown in figure B.7-1 of GIP. Also, the stresses obtained from the 3g analysis were greater then the allowable stresses.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

Defined proposed method(s) for resolving outlier.

Perform an accurate analysis using the actual acceleration on the valve.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

The pipe stress analysis of the pipe which supports this valve.

4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirements for this item of equipment to be verified for seismic adequacy:

Approved by:

Date:

1423/93

Adam Andrablagh

12/30/93

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Limited Ar	nalytical Review					
Other						
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		aceways et. (Check more than one if several guideling	nes could
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Other			
	sider this item of equipment to be verified nduit hanger supporting one small conduit ne		
	METHOD OF OUTLIER RESOLUTION (Copused method(s) for resolving outlier.	Optional)	
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	formation needed to implement proposed tal frequency).	method(s) for resolving outlier (e.g., estima	ate of
. CERTIFICAT	ION:		
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Approved by:	Randy Lewis (OPPD)	Date:	
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Steve Anagnostis (S&A) 1. 7 12/20/93

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would con-	sider this item o	f equipment to be v	erified for seismic	adequacy).	
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spacing re	quirements.				
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Provide infundamental information outlier issues adequate	formation needetal frequency). ION: on this OSVS is a listed on the proy: Randy Lewis	to the best of our	posed method(s) f	lief, correct and accur nts for this item of equ	rate, and resolutio

Omaha Public Powe OUTLIER SEISMIC	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
ID : CONT1045 (Rev. 0)	Class : 22. Cable Tray a	nd Conduit Raceways
Description : Containment El 10	45 and above	
Building : CONT	Floor El.: 1045.00	Room, Row/Col : General Area

1. OUTLIER ISSUE DEFINITION - Cable and Conduit Raceways

 Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Inclusion Rules	X
Other Seismic Performance Concerns	
Limited Analytical Review	
Other	

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).
 - 1. A number of 1" conduit at and near valves HCV-864, 865 are inadequately beam-clamped to ductwork and/or supported using "vertically" oriented beam clamps.
 - Conduits near VA-3A,B above the 1060 platform near the CCW inlet lines are over-span (about 15' 20').
 Conduit numbers are 4675A, B4508A, B4502A, EB4528A, EB4526A.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Defined proposed method(s) for resolving outlier.
 - 1. The 1" conduits near HCV-864 and HCV-865 need to be resupported.
 - 2. A support needs to be added to the conduits near VA-3A, so that the distance between supports is not more than 10'.

b.	Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of
	fundamental frequericy).

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4. CERTIFICATION:

The information on this OSVS is, to the best of our knowledge and belief, correct and accurate, and resolution of the outlier issues listed on the previous page will satisfy the requirments for this item of equipment to be verified for seismic adequacy:

Approved by:

Randy Lewis (OPPD)

Date:

Steve Anagnostis (S&A)

12/20/93

The state of the s	trict - Fort Calhoun Station IFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1
ID: CONT1013 (Rev. 0)	Class: 22. Cable Tray	and Conduit Raceways
Description : Containment El 1013 O	utside Bioshield	
Building : CONT	Floor El.: 1013.00	Room, Row/Col : Outside Bioshield

1. OUTLIER ISSUE DEFINITION - Cable and Conduit Raceways

a.	Identify all the screening guidelines which are not met.	(Check more than one if several guidelines could
	not be satisfied.)	

Inclusion Rules	
Other Seismic Performance Concerns	X
Limited Analytical Review	
Other	

b.	Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved,	then the signatories
	would consider this item of equipment to be verified for seismic adequacy).	

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There	are corroded	raceway	supports	just	below	penetration	M-93.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a. Defined proposed method(s) for resolving outlier.

The supports should be wire brush cleaned and some of the anchor bolts removed and inspected to determine if the corrosion is significant.

 Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

SIMILAR	CONDITION	NOTED	IN	OPPD'S	DED. SAE	- 93-1018	MEMMO
DATED	condition						

4. CERTIFICATION:

Approved by:	Randy Lewis (OPPD)	Date:
	Ranch Cour	1/5/94
	Steve Anagnostis (S&A)	12/20/93
	,	

	r District - Fort Calhoun Station VERIFICATION SHEET (OSVS)	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
ID : ROOM004 (Rev. 0)		Class : 22. Cable Tray and Conduit Raceways	
Description: Aux Building Hall	way El 989		
Building : AUX	Floor El.: 989.00	Room, Row/Col : All Locations	

a.	Identify all the screening guidelines which are not met.	(Check more than one if several guidelines could
	not be satisfied.)	

Inclusion Rules	
Other Seismic Performance Concerns	
Limited Analytical Review	X
Other	X

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).
 - 1. Most of the light fixtures in the plant are hung using open hooks. While it is unlikely that a falling light fixture would damage a raceway (in fact many of the fixtures are below the raceways), it cannot be precluded.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

1	Modify the light fixtures so they cannot fall if the open hook slips out.
	ovide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of indamental frequency).

4. CERTIFICATION:

Randy Lewis (OPPD)	Date:
Felen	1/5/94
Steve Anagnostis (S&A)	12/20/93
	COL

Omaha Public Power Distr OUTLIER SEISMIC VERIF	GIP Rev 2, Corrected 2/14/92 Sheet 1 of 1	
ID : ROOMS1025 (Rev. 0)	Class: 22. Cable Tray ar	nd Conduit Raceways
Description : Aux Building El 1025 - A	Il areas on the RP side	
Building : AUX	Floor El.: 1025.00	Room, Row/Col : All Locations

1. OUTLIER ISSUE DEFINITION - Cable and Conduit Raceways

a.	Identify all the screening guidelines which are not met.	(Check more than one	if several guide	lines could
	not be satisfied.)			

Inclusion Rules	
Other Seismic Performance Concerns	
Limited Analytical Review	
Other	X

 Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

There is a large duct run in the ventilation area (Room 69). Some of the duct supports near column P-8A appear to be broken or damaged. The duct may be resting on conduit or tray below.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

a.	Defined proposed method(s) for resolving outlier.	
	The duct supports should be inspected and, if necessary, repaired.	

b.	Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of
	fundamental frequency).

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4. CERTIFICATION:

Approved by:	Randy Lewis (OPPD)	Date:	
	Randal	ew 1/5/94	-
	Steve Anagnostis (S&A)	1-9 12/20193	and the same

OMAHA PUBLIC POWER DISTRICT FORT CALHOUN STATION

Con a Private Comment

RELAY EVALUATION REPORT

Prepared by

Omaha Public Power District Highway 75 - 5 Miles North Fort Calhoun Station Fort Calhoun, Nebraska 68023

Science Application International Corporation 2109 Air Park Road S.E. Albuquerque, New Mexico 87106

> VECTRA Technologies 215 Shuman Boulevard Naperville, Illinois 60563

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APPENDIX B-2:	A-46 ASSOCIATED RELAY LIST (ARL) (SORTED BY RELAY)
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1.0 INTRODUCTION

In support of the Unresolved Safety Issue (US!) A-46 seismic evaluation project for Omaha Public Power District's (OPPD's) Fort Calhoun Station (FCS), this report describes the work performed to prepare and evaluate relays. Basic technical guidance for this effort was obtained from the Generic Implementation Procedure (GIP) (Ref. 5.1) and from the Electric Power Research Institute (EPRI) report EPRI NP-7148-SL (Ref. 5.2). This relay evaluation work was performed by various highly qualified personnel from SAIC, VECTRA Technologies and OPPD. Many of the relay evaluation and support personnel have completed the SQUG relay evaluation training.

The basic technical inputs used for this work is the Safe Shutdown Equipment List (SSEL) (Ref. 5.3). Section 2.0 provides a summary of this work and the conclusions drawn. Section 3.1 of this report documents the preparation of the Associated Relay List (ARL) (Appendix B). The ARL is a comprehensive listing of the contact pairs on relays/other devices associated with the SSEL equipment. A modified version (manipulated to contain only unique devices, rather than duplicate listings of devices with contact pairs controlling more than one equipment) is contained in Appendix C. Sections 3.2 and 3.3 documents the preparation of the Essential Relay List (ERL) (Appendix D). Major steps in preparing the ERL include Light Functional Screening (LFS), elimination of rugged devices, and Detailed Circuit Analysis (DCA). The results of these steps are shown in Appendix C and are summarized in the Relay Tabulation Forms (which include all of the contact pairs on the comprehensive ARL) included in Appendix H.

Section 3.4 describes the Seismic Capacity Screening (SCS) procedure used to evaluate the ERL by comparing the seismic capacities of the devices on the ERL with their seismic demands. The results of the SCS process are provided in the ERL (Appendix D) and are summarized in the Relay Tabulation Forms (Appendix H).

Section 3.5 presents the outliers, or those devices on the ERL that failed to pass the SCS process. Possible outlier resolution approaches are also discussed in this section. Proposed resolutions are contained in the Outlier Seismic Verification Sheets (OSVSs) included in Appendix I.

2.0 SUMMARY AND CONCLUSIONS

The steps involved in the preparation and evaluation of the FCS A-46 ERL are outlined in Figure 2-1. The number shown in each box is the number of relays/other devices resulting from application of the process represented by that box.

Performing the LFS and DCA processes on the Fort Calhoun ARL (Ref. 5.3) (which contains 1076 unique devices, as listed in Appendix C) resulted in the elimination of 346 (2 using LFS and 344 using DCA) devices, leaving a total of 730 devices on the A-46 ERL. This includes 311 SWGR devices (see Appendix E), which were included in the seismic evaluation, wherein the cabinets housing these devices were evaluated for seismic adequacy by the Seismic Review Teams (SRTs) (see Section 3.4.5).

The relay walkdown (performed as part of the comprehensive seismic capability walkdown) verified (via spot check) that the essential relays appear to be properly mounted and that relay types are generally correct; the adequacy of the essential device cabinets/other enclosures was also confirmed. Most of the various caveats and notes that must be met in order for the relay GERS (Refs. 5.4 and 5.5) to apply (indicated where applicable in the ERL (Appendix D)) were either confirmed by the relay walkdown "spot check" or from the drawings or plant records (Refs. 5.6 and 5.7). With the exceptions noted in Section 3.4.6, it was concluded that it is permissible to use the seismic capacity data contained in EPRI NP-7147 (Ref. 5.4) and EPRI NP-5223-SL (Ref. 5.5) in the evaluation of the ERL using SCS and plant specific IEEE-344 -1975 test data.

The appropriate seismic capacities for the essential devices (excluding the SWGR relays mentioned earlier) covered by References 5.4 and 5.5 were then determined (see Section 3.4.2 and Appendix D). During the SCS process, these capacities were compared to the device demands (see Appendix D and Reference 5.11). (The demands were refined during the SCS process, as necessary; see Section 3.4.3). Plant specific IEEE-344-1975 seismic qualification test data, where available, were compiled and reviewed for screening the remaining relays. This resulted in a total of 34 "outliers" (see Appendix G). These outliers include six low-ruggedness relays (Ref. 5.2).

Suggestions for resolving these outliers are discussed in Section 3.5 and summarized in the OSVSs in Appendix I. Appendix G identifies the specific resolution for each outlier and a schedule for the completion of this action. Relays requiring operator actions are identified in Appendix I.

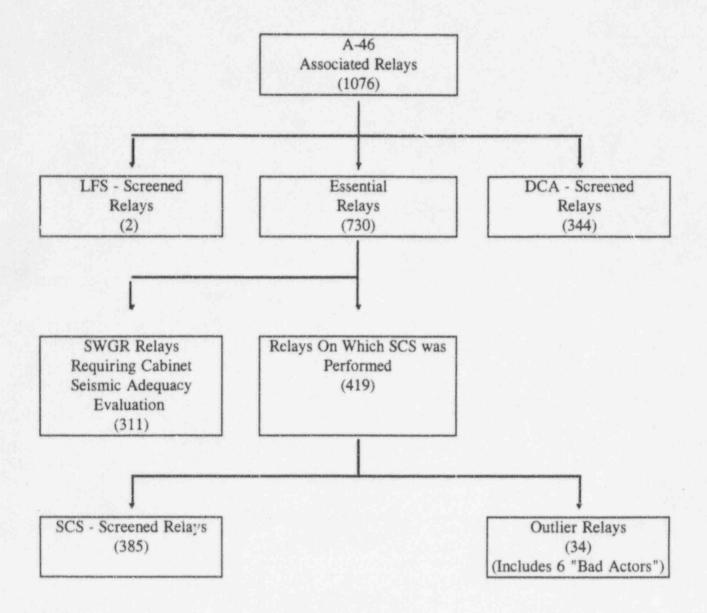


FIGURE 2-1: OPPD/FORT CALHOUN A-46 RELAY EVALUATION PROCESS

3.0 APPROACH AND CRITERIA

The preparation and evaluation of a list of relays and other devices essential to the proper functioning of the A-46 SSEL equipment uses an approach based on the guidance in the GIP (Ref. 5.1) and EPRI NP-7148-SL (Ref. 5.2).

The ARL preparation was performed on all SSEL components requiring electrical power. The ARL was prepared using the control schematic to identify the relays which control the components listed on the SSEL. A detailed discussion of the ARL is contained in Section 3.1 of this report.

ERL preparation involves performing LFS on the ARL, based on the equipment contained in the SSEL (Ref. 5.3) using a general knowledge of control circuit operation. LFS eliminates devices which have no functional bearing on the control of any safe shutdown equipment and whose chatter could not possibly prevent such equipment from accomplishing its function. In addition, inherently rugged devices are eliminated at this stage from the ARL. As part of the preparation of the ARL, inherently rugged devices, such as hand-switches were screened out. This process was documented by marking these devices with a pink high-lighter on the schematic diagram. Next, DCA considers the operational requirements of the equipment being controlled by the individual devices on the ARL. DCA eliminates devices controlling safe shutdown equipment whose chatter could not potentially cause inadvertent and undesired equipment actuation nor failure of equipment to actuate as desired. Together, these steps result in the formation of the ERL (see Appendices C and D).

Evaluation of the ERL is done using SCS and, in certain cases, cabinet qualification. SCS evaluates the seismic adequacy of ERL devices (to the extent that data is available on these devices) by comparing their seismic capacities with the seismic demands to which they will be potentially subjected in the event of an earthquake. The cabinets containing essential devices are evaluated for seismic adequacy by the SRTs.

Finally, outliers, or those devices on the ERL that fail to pass the SCS process (i.e., seismic demands exceed capacities), are documented on OSVSs according to the guidelines set forth in the GIP (Ref. 5.1) and EPRI NP-7148-SL (Ref. 5.2). Suggestions for resolving these outliers are also included on the OSVSs.

3.1 ASSOCIATED RELAY LIST (ARL) PREPARATION

The ARL is sorted by the Associated SSEL component and then by the relay tag number and are listed in Appendix B1 and B2. The following discussion provides details of the ARL preparation.

From the SSEL all the electrically operated components were identified. For each electrically operated component, the associated schematic which shows the control circuitry for that component was located. Each schematic was reviewed to identify each associated relay located in the control circuitry of the component. The relay was identified by highlighting the relay with a green see-through marker. For the purposes of this scope of work, associated relay were taken to mean any auxiliary relays, protective realys, contractors, and any other contract devices in circuits controlling the safe shutdown equipment. Associated relays are those contract devices which may be impacted by a seismic event and are not defined by the GIP as being inherently rugged.

Examples of associated relays are:

- Auxiliary relays identified as X, XX, 62, 74, 94
- Protective relays identified as 27, 49, 50, 51, 86, 87, excluding Thermal overload devices
- Contactors identified as Mo, Mc, 42A 42B
- Devices such as pressure switches, temperature switches, level switches, and bi-stables
 will be included as associated relays. Protective devices such as undervoltage relays
 and overcurrent relays will be highlighted on, and associated with the schematic
 diagram which contains the applicable contacts. These devices will not be highlighted
 on the relay and metering diagrams.

Non-associated Relays - For the purposes of this scope of work, non-associated relays shall be taken to mean inherently rugged contact devices.

Examples of non-associated relays are:

- Hand control switches identified as CS, SS, HC, 69
- Breaker position switches identified as 52
- Rotary Limit and Torque switches identified as LS and TS

The devices will be highlighted with a pink see-through marker on the schematic diagram.

Data sheets were created based on the electrically operated component from the SSEL and its corresponding schematic. The data sheet lists the relay number and the schematic file number that shows the associated relay coil located in the control circuitry of each electrically operated component.

NOTE:

If a schematic does not show a corresponding coil for a selected contact pair, the coil may be indicated on another schematic. To complete the process of identifying associated relays, the additional schematic that shows the coil was reviewed to ensure that all coils were identified.

Highlighted schematics were prepared and checked to ensure all associated and non-associated relays located in the control circuitry of the electrically powered equipment from the SSEL are identified and that the data sheets are correctly completed for the associated relays. The non-associated relays were screened in the ARL process and data sheets were not prepared for them. Data from the data entry sheets were entered into a database file. The database file was printed out and all entries were proofed against the data entry sheets to ensure that the data is correctly entered.

The following information for each associated relay was downloaded from the OPPD CHAMPS database and merged with the associated relay list database:

Location

Manufacturer

Model Number

Name

Room

Elevation

Power Source

The database file was printed out and all entries proofed against the download from the OPPD CHAMPS database to ensure that all information has been correctly entered.

3.2 LIGHT FUNCTIONAL SCREENING AND ELIMINATION OF INHERENTLY RUGGED DEVICES

The goal of the LFS process is to modify the ARL, to eliminate those devices that can be easily determined to be non-essential. A device is considered non-essential at this stage if, based on its general role in the control circuit, its malfunction as a result of a seismic event could not potentially prevent a safe shutdown equipment from accomplishing its function (e.g. devices with contact pairs only in alarm circuits and indication circuits). This judgement is made without considering the operational requirements of the associated SSEL equipment.

3.2.1 PREPARATION

In preparation for the LFS process and the elimination of inherently rugged devices, it was necessary to ensure that the ARL represents a comprehensive list of relays associated with SSEL equipment (Ref. 5.3). First, a list of the electrically powered SSEL equipment was derived from the SSEL. Next, the applicability of the list of electrical control circuit schematics (Ref. 5.3) was verified and these were sorted by circuit type. Within each circuit category, the schematics were categorized as either "primary" or "cascading". A schematic is termed "primary" if it represents the direct control circuit for the particular SSEL component. If the schematic does not indicate corresponding coils for one or more associated relays, the coil(s) may be shown on one or more additional schematics, which are referred to as "cascading".

Next, the ARL was verified to ensure that it contained all relays and other contact devices in the control path (given in both primary and cascading schematics) for each of the equipment in the SSEL (Ref. 5.3) requiring relay evaluation.

3.2.2 LIGHT FUNCTIONAL SCREENING

LFS consists of performing circuit analysis on the circuits containing relay contact-pairs (and other contact devices) listed on the ARL. Relays were functionally screened out if all of their contact-pairs control annunciators and/or alarm devices, or if they control equipment other than that listed in the SSEL (Ref. 5.3), as these devices have no effect on the proper operation of SSEL control circuits.

3.2.3 ELIMINATION OF INHERENTLY RUGGED DEVICES

The ARL was examined to verify that it does not contain any mechanical or solid state devices, as these are defined to be "inherently rugged" by the GIP (Ref. 5.1). Note that it is possible for certain inherently rugged devices to be essential to the operation of the control circuit; however, these devices were not considered in the preparation of the ERL.

3.2.4 RESULTS

The two relays identified as "non-essential" as a result of the LFS are noted in Appendix C (with "LFS" indicated under "STATUS" as the non-ERL justification) and are listed in the Relay Tabulation Forms in Appendix H with "CA" under "STATUS", indicating that these relays are non-essential, since their chatter is acceptable. Also, some general remarks are provided in the Relay Tabulation Forms to explain the basic reasoning in using LFS to eliminate these relays from further consideration. Because inherently rugged devices were screened during the preparation of the ARL, there were no inherently rugged devices found on the ARL (Ref. 5.3) to be eliminated from further consideration.

3.3 DETAILED CIRCUIT ANALYSIS

Using safe shutdown equipment state information, DCA is used to determine if chatter of certain relay contacts in the control path is functionally acceptable (Refs. 5.1 and 5.2). Based on the normal, desired, and fail (where different from desired) states of the SSEL equipment being controlled by a given circuit, the **specific** function of each device within that circuit was examined. The equipment states can include "on" (or "picked up"), "off" (or "dropped out"), "open," "closed," etc.

If, when such states were considered for a particular equipment, it is determined that a given contact pair chatter is acceptable, that contact pair was eliminated from further evaluation and an appropriate justification was noted on the Relay Tabulation Forms contained in Appendix H. If all of the contacts on a given relay or contact device could be so screened, that device was not included on the ERL.

3.3.1 ASSUMPTIONS AND PREPARATION

In accordance with the relay evaluation methodology outlined in the GIP (Ref. 5.1) and in EPRI NP-7148-SL (Ref. 5.2), the following assumptions were made in performing DCA.

- Relays/contact devices will be exposed to a 30-second earthquake.
- Relays/contact devices will not be permanently damaged, with the exception of two specific models: the GE IJD (non IE) and the English Electric YCG, as listed in Appendix E of EPRI NP-7148-SL (Ref. 5.2).
- 3. "Chatter" is the inadvertent opening or closing of a contact with a sustained output of 2 milliseconds (Ref. 5.2).
- Relay/contact device failure modes are a) contact chatter causes inadvertent and undesired equipment actuation and b) contact chatter causes failure of equipment to actuate as desired.

In addition, three other assumptions used to establish the scope of the DCA process were:

 The Engineered Safety Feature (ESF) circuitry operates as designed, responding to initiating signals, as appropriate, and initiating the associated systems, as required. (Later, during the SCS process, the ESF circuitry was seismically evaluated and corrective actions will be proposed for any devices failing SCS.)

- Once a component is placed in the desired state, it remains in this correct state.
- Operator actions, to include not only resetting of circuitry made necessary by chatter, but also actions that are part of routine safe shutdown operating procedures, are not an allowable justification for excluding any relay from the ERL.

In preparation for the DCA process, the ARL was manipulated to obtain the list of unique "ys and contact devices; this version of the ARL is contained in Appendix C. Next, the circuit schematics for the SSEL equipment were examined to verify that the file numbers given in the SSEL (Ref. 5.3) received from OPPD were correct. As EPRI NP-7148-SL (Ref. 5.2) indicates, similar circuits can be analyzed in much the same fashion; hence, the schematics were then organized into the following categories: Motor-Operated Valves (MOVs), pumps, Solenoid-Operated Valves (SOVs), Switchgear (SWGR), sequencer circuits, and other special cases. The normal, desired (i.e., the state desired for safe shutdown) and fail (where different from the desired) states for each of the SSEL equipment (Ref. 5.3) requiring relay evaluation were confirmed by OPPD/FCS staff (Refs. 5.3 and 5.8).

3.3.2 DETAILED CIRCUIT ANALYSIS ON MOVS

An MOV's normal, desired and fail (where different from desired) states were used to determine whether associated relays could be eliminated on functional grounds. Typically, upon loss of AC power, the MOV fails "as is." The question considered was what would be required to take the MOV from its normal state (having failed "as is") to the desired state. If the MOV is already in its desired state, the circuitry that could potentially take it to the opposite state must be evaluated for chatter (seismically screened), later in the relay evaluation process. If the ESF actuation circuitry positions the valve and would normally place it in the desired position, and if no seal-in function exists in the control path, chatter is considered acceptable and the contacts were functionally screened out. If a seal-in circuit does exist in the direct control path, all the relays in the path must be seismically screened and were included in the ERL.

In addition, the ID numbers for the Motor Control Centers (MCCs) associated with the MOVs were identified. Certain of the MCCs were functionally eliminated using DCA. As for each of those that were not so-eliminated, only the MCC contactor, considered to be the most seismically vulnerable component in an MCC, was included on the ERL.

3.3.3 DETAILED CIRCUIT ANALYSIS ON PUMPS

The normal and desired states of each pump were used to determine if relay chatter is acceptable in the associated control circuitry. (The "fail" state for pumps is simply considered to be "off," due to the loss of AC power.) The question asked was what circuit action would be necessary to place the pump in the desired state and keep it in that state. It was necessary to determine when the pump was needed, as well. Typically, critical pumps are placed in service by the ESF circuitry, via breakers or contactors, and can also be manually started.

They may also be started by other control circuits designed to maintain portions of the plant within certain operating limits, i.e., switches that are triggered by various system states (e.g. pressure, level, flow, etc.). In the latter case, the effects of seismically induced system changes were evaluated, together with the effect of such changes on the pump under consideration.

3.3.4 DETAILED CIRCUIT ANALYSIS ON SOVS

The normal, desired and fail (where different from desired) states of each SOV were used to determine if the relays contained in associated control circuitry could be functionally eliminated using detailed circuit analysis. Loss of AC power means that an SOV's associated AC solenoids are placed in their fail (deenergized) states. Associated DC solenoids stay in their normal states. To determine which relays in SOV control circuits are essential, consideration was given as to what circuit action would be necessary to transfer a given SOV from its normal state to its desired state.

3.3.5 SWGR "RULE OF THE BOX"

To eliminate the necessity of performing DCA on all of the circuitry in the SWGR direct control paths, it is possible to automatically consider most of the SWGR devices essential and for the SRTs to evaluate only the seismic adequacy of the cabinets housing these devices (Ref. 5.1); this is referred to by EPRI NP-7148-SL as the "rule of the box" (Ref 5.2). This also eliminates having to consider many of the essential SWGR devices individually during the SCS process.

This rule is applicable only if the SWGR circuitry included in the "box" (or cabinet) contains no low ruggedness relays ("bad actors") or lockout devices (Ref. 5.2). Therefore, the SWGR circuits were examined for low ruggedness relays and the SWGR direct control paths were examined for lockout devices. Any lockout relays (which cannot be included in the "box") and the protective circuitry controlling the lockout relays were seismically screened later, in the relay evaluation process. Any low ruggedness relays in these circuits were functionally evaluated using DCA.

Appendix E contains a list of devices in the SWGR circuitry that are covered by the "rule of the box." These are also indicated in the ERL (Appendix D) by the acronym "SWGR" under "STATUS".

3.3.6 SPECIAL CASES

DCA was performed on "special case circuits" following the detailed examples provided in EPRI NP-7148-SL (Ref. 5.2). These included the Reactor Protection System (RPS) circuitry, automatic transfer switch circuitry, etc., which do not fit any of the general categories in the previously discussed sections.

3.3.7 RESULTS

A total of 344 relays and other devices from the unique list of devices (Appendix C) associated with SSEL equipment, were designated as "non-essential" as a result of the DCA process and were thus excluded from the ERL (Appendix D). These are identified in the ARL (with "DCA" under "STATUS" as the non-ERL justification) and are listed in the Relay Tabulation Forms in Appendix H with "CA" under "STATUS", indicating that these relays are non-essential, since their chatter is acceptable. Also, some general remarks are provided in the Relay Tabulation Forms to explain the basic reasoning in using DCA to eliminate devices in a given control circuit from further consideration.

3.4 SEISMIC CAPACITY SCREENING

In accordance with the guidance in the GIP (Ref. 5.1) and EPRI NP-7148-SL (Ref. 5.2), the SCS process used here is based on the Nuclear Regulatory Commission's (NRC's) Supplement No. 1 to Generic Letter (GL) 87-02 (Ref. 5.10), EPRI NP-7147-SL (for seismic capacity data) (Ref. 5.4), and EPRI NP-5223-SL (also for seismic capacity data) (Ref. 5.5).

The ERL (Appendix D) contains relays and other devices with contacts that are essential to the control of required safe shutdown equipment. These devices generally fall into one of three main categories (Ref. 5.1). Most of these devices are auxiliary relays, which include electromechanical and pneumatic timing relays, used for a variety of general control functions. Other devices on the ERL are protective electromechanical relays whose function is to protect equipment from system faults and other abnormal (e.g. over-current and under-voltage conditions). The third large category of devices on the ERL is contactors, which are heavy duty relays whose contacts are moved by a small solenoid-type mechanisms. There are also a few types of miscellaneous devices on the ERL, such as switches. SCS was performed on each of these devices.

In addition to the above generic seismic capacity screening, the available plant specific IEEE-344-1975 tests were reviewed and used as a basis for screening some recently installed relays.

3.4.1 PREPARATION

Before performing the SCS, it is necessary to conduct a "bad actor review," or an organized search for low ruggedness relays, as described in EPRI NP-7148-SL (Ref. 5.2). "Bad actor" relays that also appear on the ERL (Appendix D) are exempt from the SCS process that uses the Generic Equipment Ruggedness Spectra (GERS) provided in EPRI NP-7147-SL (Ref. 5.4). Appendix E in this reference lists twenty-three relays that have "low seismic ruggedness or demonstrated sensitivity to high frequency vibration" (Ref. 5.2). All of these relays ar so-categorized regardless of operating mode, with the exception of the GE HGA and W WG, which are considered "bad actors" only in the deenergized, normally closed mode.

A list of the relays identified as "bad actors," is contained in Appendix F. One of these was eliminated from further consideration using DCA (identified by an "N" under "Essential?" in Appendix F), so that six "bad actors" remained on the ERL.

Also, a relay walkdown (or several different walkdowns) is (are) required prior to performing SCS (Refs. 5.1 and 5.2). The objectives of the relay walkdown include:

- To obtain information needed to determine cabinet, panel, and/or rack types which house or support essential relays,
- To spot check essential relay mountings (the capacity data in EPRI NP-7147-SL (Ref. 5.4) and EPRI NP-5223-SL (Ref. 5.5) is applicable only for relays/other devices mounted, adjusted, calibrated, and maintained in accordance with manufacturer's instructions),

- To spot check essential relay types and locations (to verify the accuracy of plant data base information), and
- 4) To verify the adequacy of the anchorage of the cabinets and other enclosures which house the essential relays.

For the purpose of this walkdown, the cabinets and other enclosures containing essential relays/other devices in the list of "boxes" housing safe shutdown equipment and/or safe shutdown equipment control circuits were identified.

A comprehensive seismic capability walkdown was performed by the SRTs. Specific information from this walkdown was used to determine the seismic demand values for the essential relays/other devices. The seismic adequacy of the cabinets/other enclosures housing essential relays was reviewed via a 100% walkdown. A "spot check" of relay mountings and types was also performed. Also, a selection of control room panels was "spot-checked" for proper anchorage. The local panel for the diesel generator was specifically checked for anchorage and for relay model numbers. In general, the SRTs judged the anchorages to be satisfactory and the relay model numbers to be correct.

3.4.2 DETERMINATION OF SEISMIC CAPACITY

According to the GIP (Ref. 5.1), the seismic capacity of relays/other devices can be established using three different methods: 1) generic seismic test data, 2) earthquake experience data, and 3) specific seismic test data. The first option amounts to using the available test data on a variety of devices and equipment, which have been reduced to GERS in the complementary reports EPRI NP-7147-SL (Ref. 5.4) and EPRI NP-5223-SL (Ref. 5.5). The second method searches for seismically unacceptable relay types, or "bad actors," (Ref. 5.2), identified as such as a result of the data obtained on relay performance, specific failures, vulnerabilities, and other from actual earthquake experience in power plants and other facilities. Finally, the third option is the use of plant- and relay-specific test data, generally maintained by the plant and/or suppliers.

All three approaches were used here. First, a search for seismically unacceptable relays, or "bad actors," was employed, as described in the previous section. Next, the method of using generic seismic test data was employed for establishing the capacities of the remaining essential relays/other devices. This was done to the extent that such data exists (i.e. that device models are covered by EPRI NP-7147-SL (Ref. 5.4) and EPRI NP-5223-SL (Ref. 5.5)). Finally, plant- and relay-specific IEEE 344 test data, screening recently installed relays.

The application of GERS data is the most involved determination of seismic capacity and, hence, warrants some additional discussion. First of all, it is necessary to verify that it is permissible to apply this data to the devices on the ERL (Appendix D).

For use of the GERS data to be acceptable, it is necessary that the essential relays/other devices be properly mounted and the essential relay/other device types and locations listed in the plant data base (Ref. 5.3) be correct (Refs. 5.4 and 5.5). In general, the relay walkdown "spot check" results indicated these conditions to be true. It is also required that the anchorage of cabinets and other enclosures housing these devices generally meet applicable acceptance standards (Refs. 5.4 and 5.5). In general, the seismic walkdown indicated this to be the case. Finally, a number of various caveats (in the form of a checklist for each relay GERS and notes on many of the individual model capacities) must be met in order for the relay GERS (Refs. 5.4 and 5.5) to apply. These caveats and notes are indicated where applicable in the ERL (Appendix D). Certain of these caveats are considered confirmed by the relay walkdown "spot check," while others were verified from the drawings or from plant records (Refs. 5.6 and 5.7). In all cases where these criteria are met, it is considered permissible to use the GERS sources to determine the seismic capacity for each of the ERL devices covered by these sources.

A GERS is the spectral acceleration capacity (in g's) defined at the relay/other device mounting point; above this acceleration level, the device cannot be expected to function without chatter or damage (Ref. 5.4). Chatter in excess of two milliseconds is considered a "failure." The GERS capacities are given in terms of 1) the Peak Spectral Acceleration (PSA) capacity occurring between frequencies of 4 to 16 Hz and 2) the Zero Peak Acceleration (ZPA) value, used for frequencies higher than 33Hz. For relays, different spectra are provided with varying degrees of availability for different operating modes (i.e. operate/non-operate) and normally open or closed contacts, for which there can be significant differences in seismic ruggedness.

EPRI NP-7147-SL (Ref. 5.4) provides a large number of GERS for auxiliary and protective relays. Each of these GERS applies to a specific subclass of relays for certain years of manufacture (all prior to 1985). EPRI NP-5223-SL (Ref. 5.5) contains the MCC contactors GERS.

3.4.3 DETERMINATION OF SEISMIC DEMAND

For devices on the ERL that are not covered by the SWGR "rule of the box" (see Section 3.2.5), EPRI NP-7148-SL (Ref. 5.2) and the GIP (Ref. 5.1) describe SCS as a four-level process. In "Level 1," a relay located below 40 feet above the grade of the plant (1004 feet is grade level at FCS) can be screened out as sufficiently rugged if it is contained in a low-(MCC-type) or high-amplification (switchgear-type) cabinet and its GERS capacity value (or relay-specific test value) is greate "than 5 or 8g, respectively. The "Level 1" approach was not used for FCS.

"Level 2" estimates the seismic demand for a relay based on an In-Structure Response Spectrum (ISRS), times an appropriate Safety Factor (SF), times an in-cabinet Amplification Factor (AF). The ISRS can be obtained by multiplying the ground response spectrum by a factor of 1.5, where applicable, or they can be taken as the ISRS actually determined from the building dynamic analysis. For this project, both the ground spectrum, where applicable, and the ISRS actually calcuated were used. The ISRS were first conservatively assumed to be

median-centered. These "Level 2" demands were used in the phased SCS approach described in Section 3.4.4. A relay was seismically screened out if its GERS capacity equals or exceeds the conservatively determined "Level 2" demand in both the low frequency range (4Hz to 16Hz) and in the high frequency range (33Hz and above) (Refs. 5.2 and 5.4).

If a relay did not pass the SCS using "Level 2" demands, it was necessary to refine the demands using a "Level 3" approach. In "Level 3," seismic demands were determined using the GENRS software described in Reference 33 of the GIP (Ref. 5.1). For final refinement of the demands, the ISRS were assumed to be "conservative design" in GENRS (Ref. 5.11). It should be noted that the ISRS used in this project have been accepted as "conservative design" by the NRC (Ref. 5.12). These demand values were applied in the same manner as above to devices not passing previous SCS applications.

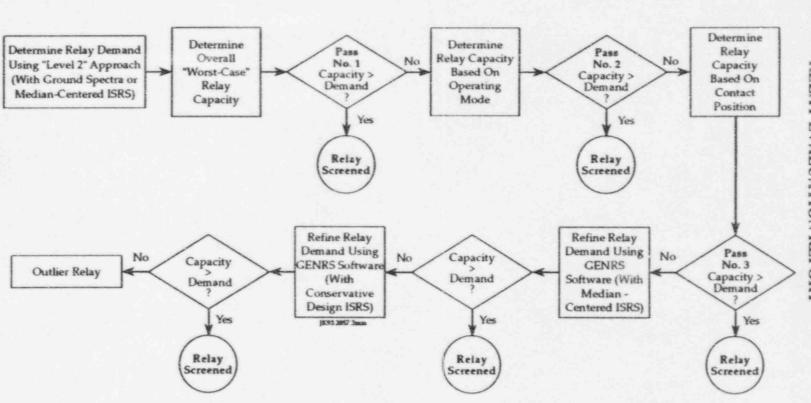
Finally, "Level 4" amounts to resolving unscreened relays/other devices by using seismic qualification methods specified in current NRC-approved Institute of Electrical and Electronics Engineers (IEEE) standards (e.g. IEEE 344-1975 and IEEE 344-1987) and current licensing criteria (e.g. NRC Standard Review Plan and Regulatory Guides).

3.4.4 SEISMIC CAPACITY SCREENING APPLICATION

According to the guidelines for SCS presented in EPRI NP-7148-SL (Ref. 5.2) and supplemental guidance from the NRC (Ref. 5.10), relays/other devices that are not "bad actors" (see Section 3.4.1) are considered "acceptably rugged" if two conditions are met. First, the peak seismic demand spectrum must be bounded by the peak seismic capacity spectrum in the frequency range of 4 to 16 Hz and second, for high frequencies, the capacity ZPA must exceed the demand ZPA.

As discussed in Section 3.4.2, to determine the applicable GERS capacity value from EPRI NP-7147-SL (Ref. 5.4), it is necessary to know the operating mode (i.e. operate/non-operate and contact position) of that relay during the earthquake (i.e. after offsite power is lost). For efficiency, a phased approach was taken by conducting three separate SCS "passes," followed by additional SCS applications (using refined demands) on those devices failing the third "pass." This is illustrated by the flowchart presented in Figure 3.1.

For the first pass, the overall worst-case capacities were compared to the relay demands (the first time using the conservatively determined demands), with no consideration of operating mode. A relay may fail this first pass due to an inadequate PSA or an inadequate ZPA value, which could potent ally be "upgraded" during the second pass. In the second pass, it was necessary to determine whether each relay would be in the operate or non-operate mode (i.e. energized or deenergized for auxiliary relays and actuated or non-actuated for protective relays) upon loss of offsite power (Ref. 5.4). The capacity for each remaining relay was then



upgraded to a higher value, provided the "worst-case" value for the contact positions under "operate" or "non-operate," as applicable, was higher than the capacity used in the previous pass. Next, the third and most specific screening pass required knowing the normal positions of the unscreened relays' contacts. This entailed examining the control circuit drawings. The SCS process was repeated using refined demand data for those relays that had not passed the previous SCS application.

3.4.5 SPECIAL SCREENING TECHNIQUE FOR SWGR

The SCS process was not applied to SWGR devices that were included in the "rule of the box," as discussed in Section 3.3.5. The Relay Tabulation Forms in Appendix H list contact pairs on SWGR devices that were identified as being potentially covered by the "rule of the box." There are 311 devices that were included under this rule, since all of their contacts were so-identified. These are listed in Appendix E; they are also included in the ERL (Appendix D, with "SWGR" under "STATUS"). The cabinets containing the SWGR devices listed in Appendix E were evaluated for seismic adequacy by the SRTs, in accordance with the guidance provided in the GIP (Ref. 5.1) and EPRI NP-7148-SL (Ref. 5.2). This is documented separately in the Seismic Evaluation Report. The remaining SWGR devices (i.e. those not included under the "rule of the box") were evaluated using the DCA and/or SCS processes, as appropriate (see Section 3.3.5).

3.4.6 RESULTS

The results obtained following the three SCS passes, as well as the SCS applications using refined demand values where necessary, are indicated on a contact-pair basis in the Relay Tabulation Forms (Appendix H). The SCS process screened out 385 relays.

The ERL (Appendix D) provides a detailed summary, as follows. Under "Status," the ERL identifies the devices that passed SCS (by "SCS"), those that did not pass (by "OUTLIER"), those that are to be evaluated using the SWGR "rule of the box" (by "SWGR"). The ERL also indicates the specific GERS reference numbers from EPRI NP-7147-SL (Ref. 5.4) or EPRI NP-5223-SL (Ref. 5.5) used to determine capacities. The ERL also identifies if plant specific IEEE-344-1975 qualification test data was used to verify the seismic adequacy of the device. With regard to the operational state information used to find the capacity in each case, under "STATE," the ERL uses "E" for energized, "D" for deenergized, "NO" for normally open contacts, "NC" for normally closed contacts, "BAD" for "bad actor" relays, and "N/A" for cases in which state information is non-applicable. Finally, the ERL provides the caveats and notes that were verified in order to apply the GERS to individual device model numbers.

3.5 RESOLUTION OF OUTLIERS

Relays and other devices that were not screened out using LFS, DCA, or SCS are essential to the operation of A-46 safe shutdown equipment and are identified as outliers. A total of 34 relays are identified as outliers. These outliers and the equipment they affect are listed in Appendix G. Appendix G also provides a proposed resolution plan for these outliers with a schedule for their accomplishment.

Short of applying a corrective action (see list below), the remaining possibility for screening this type of device as being acceptable in its present condition is the use of system reset by operator action. However, it is important to consider whether the total number of operator actions proposed is excessive (i.e., whether the operators could realistically perform all of the proposed reset actions in a reasonable amount of time) (Refs. 5.1 and 5.2). The OSVSs included in Appendix I indicate the devices for which the operator reset action option is proposed for the resolution of outliers. Operator action is proposed as the preferred method of resolving the six 87/1AD1 and 87/1AD2 outliers (these are outliers due to being "bad actors") relays, which are in the direct control paths of the DG-1 and DG-2 feeder breakers and the EDG #1 and #2 engines. However, since an operating procedure for this action does not currently exist, one will have to be written if this method of resolution is selected.

In cases where operator action is not possible or is not preferred, at least as a first option, several corrective action options exist. In line with the "Level 4" approach discussed in EPRI NP-7148-SL (Ref. 5.2) and the GIP (Ref. 5.1), it is possible to resolve an outlier by one of the following methods:

- Re-evaluation of the demand and capacity on a plant- and relay-specific basis, using a "more realistic" analysis,
- Relocation of relay or modification of cabinet/mounting to reduce demand.
- Testing to confirm relay adequacy, including relay qualification tests or other plant- and application-specific tests, or using available IEEE test data,
- Modification of system or systems controls to eliminate dependence on the vulnerable relay,
- 5) Replacement of relay,
- 6) Selection of another path to accomplish safe shutdown, or
- 7) Use of other methods, with plant-specific justification.

As a second option for resolving the six outliers affecting the DG-1 and DG-2 breakers and the EDG #1 and #2 engines, a modification is proposed to replace the subject relays (option 5)) with seismically acceptable models.

The suggestions for all the outliers are summarized in the OSVSs contained in Appendix I. The Appendix G provides the proposed option with a schedule for their implementation.

4.0 PEER REVIEW

The work covered by this report has been reviewed by Robert J. Budnitz of Future Resources Associates. The peer review covers the LFS, DCA, "bad actor" search and SCS processes applied in the preparation and evaluation of the ERL for OPPD/FCS. The objective of such a review is to verify that this work covered by this report is technically sound and in accordance with the methodology and technical guidance provided by the GIP (Ref. 5.1) and EPRI NP-7148-SL (Ref. 5.2). The results of the peer review process are published separately from this report.

5.0 REFERENCES

- 5.1 Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Plant Equipment, R/2 Corrected, February 1992.
- 5.2 EPRI NP-7148-SL, Procedure for Evaluating Nuclear Power Plant Relay Seismic Functionality Final Report, December 1990.
- 5.3 Safe Shutdown Equipment List (SSEL) Report prepared by OPPD and VECTRA Technologies
- 5.4 EPRI NP-7147-SL, Seismic Ruggedness of Relays, August 1991.
- 5.5 EPRI NP-5223-SL, Generic Seismic Ruggedness of Equipment, August 1991.
- 5.6 Letter dated December 9, 1993 (PED-FC-93-3165) from B.J. VanSant, Omaha Public Power District, Subject: "Conformance of the FCS Design and Operation to the Caveats and Notes for the GERS Data in EPRI NP-7147;" Attachment 1 to this letter corrected, changing the second sentence under "Original Equipment Relays Class 1E Equivalent" to read "is considered to be met" in a December 15, 1993 telecopy from Joe Mathew, Omaha Public power District.
- 5.7 December 8, 1993 telephone contact report, summarizing additional conclusions stated by Bob Mehaffey, OPPD, regarding the conformance of FCS relays and contactors with GERS caveats
- 5.8 June 30, 1993 written communication from Joe Mathew, OPPD, correcting the contents of a telecopy sent from SAIC to OPPD on June 22, 1993, which contained the equipment states for the SSEL assumed for the relay evaluation work.
- 5.9 SAIC Relay Analysis Package (SRAP) Users Manual and Documentation, Version 1.0, Science Applications International Corporation, 1993.
- 5.10 Supplement No. 1 To Generic Letter (GL) 87-02 That Transmits Supplemental Safety Evaluation Report No. 2 (SSER No. 2) On SQUG Generic Implementation Procedure, Revision 2, As Corrected On February 14, 1992 (GIP-2), NRC, May 22, 1992.
- 5.11 Letter dated November 22, 1993 from Thomas J. Tracy, Stevenson & Associates, Subject: "Revisions to Essential Relay Demand Values" (due to removal of 1.5 factor for demands previously calculated based on "median-centered" ISRS).
- 5.12 Letter dated October 18, 1993 from Steven D. Bloom, Nuclear Regulatory Commission, Subject: "Evaluation of Clarification of 120-Day Response to Supplement No. 1 to Generic Letter 87-02 for Fort Calhoun Station (TAC No. M69447)" (concurring with OPPD's conclusion that the ISRS should be considered as "conservative design" rather than "median-centered").

- 5.13 AOP-13, "Loss of Control Room Air Conditioning," Rev. 0, June 17, 1992.
- 5.14 OI-VA-3, "Operating Instructions: Control Room Ventilation system Normal Operation, Rev. 3, October 27, 1993.

APPENDIX A.
GLOSSARY OF TERMS

GLOSSARY OF TERMS USED IN THIS REPORT

AF - Amplification Factor

ARL - Associated Relay List

ASSEL - Associated Safe Shutdown Equipment List

BAD - "Bad Actor" or Low-Ruggedness Relay

DCA - Detailed Circuit Analysis

DNC - Deenergized, Normally Closed Contacts

EDG - Emergency Diesel Generator

ELEV - Elevation

EPRI - Electric Power Research Institute

ERL - Essential Relay List

ESF - Engineered Safety Feature

ESNTL - Essential Relay

FCS - Fort Calhoun Station

FRS - Floor Response Spectra

GERS - Generic Equipment Ruggedness Spectra

GIP - Generic Implementation Procedure

GL - Generic Letter

IEEE - Institute of Electrical and Electronics Engineers

ISRS - In-Structure Response Spectra

LFS - Light Functional Screening

MCC - Motor Control Circuit

GLOSSARY OF TERMS, CONT'D.

MFG - Manufacturer

MOV - Motor-Operated Valve

N/A - Not Applicable

NRC - Nuclear Regulatory Commission

OPPD - Omaha Public Power District

OSVS - Outlier Seismic Verification Sheet

PSA - Peak Spectral Acceleration

PSA CAP - Peak Spectral Acceleration Capacity

PSA DEM - Peak Spectral Acceleration Demand

RM - Room

RPS - Reactor Protection System

SAIC - Science Applications International Corporation

SCS - Seismic Capacity Screening

SF - Safety Factor

SOV - Solenoid-Operated Valve

SQUG - Seismic Qualification Utility Group

SRAP - SAIC Relay Analysis Package

SRT - Seismic Review Team

SSEL - Safe Shutdown Equipment List

SSPATH - Safe Shutdown Path

SWGR - Switchgear, Switchgear "Rule of Box" Relay or Contact Pair

RELAY EVALUATION REPORT GLOSSARY OF TERMS, CONT'D.

USI - Unresolved Safety Issue

W - Worst-Case

ZPA - Zero Period Acceleration

ZPA CAP - Zero Period Acceleration Capacity

ZPA DEM - Zero Period Acceleration Demand

APPENDIX B-1.

A-46 ASSOCIATED RELAY LIST (ARL) (SORTED BY ASSEL)

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1A3	1A3-10	27-1/1A3	9397	1A3-04	56	1011	IA3	3	AUX/EE	AC-RW
1A3	1A3-10	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	AC-RW
AI-24A	1A3-10	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-24A	1A3-10	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-24A	1A3-10	27T1S1/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
A1-24	1A3-10	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
Al-24	1A3-10	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-10	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-10	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-10	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-10	51/1A33-3	9461	A1-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-10	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-24	1A3-10	86/1A33	9401	A1-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-30A(SI-1)	1A3-10	62-1-1/AC-10C	9801	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
1A3	1A3-10	62-1-1X/AC-10C	9801	1A3-10	56	1011	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-10	62-1-2/AC-10C	9801	AI-30A(S1-2)	77	1036	AI-40B-19	3	AUX/EE	AC-RW
1A3	1A3-10	62-1-2X/AC-10C	9801	1A3-10	56	1011	AI-40B-19	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-10	27-1/\$1-1	9804	AI-30A(SI-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-10	86-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(\$1-2)	1A3-10	27-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AJ-41B-13	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-10	86-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-10	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-10	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-10	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-10	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-10	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-10	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
CB-1,2,3	1A3-10	A/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-10	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-10	A/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	
CB-1,2,3	1A3-10	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-I	1A3-10	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3		AC-RW
AC-DC-I	1A3-10	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-10	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE AUX/EE	AC-RW
AC-DC-1	1A3-10	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3		AC-RW
AC-DC-1	1A3-10	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-10	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-10	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-10	D/PIA-102Y-2	9829	AC-DC-I	77	1036	A1-40D-01	3	AUX/EE	AC-RW
AC-DC-I	1A3-10	PPLS/BLOCK-A	9831	AC-DC-1	77	1036			AUX/EE	AC-RW
			9021	ALC-LAC-1	- 11	1036	AI-40A-01	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1A3-10	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	AC-RW
A/PC-742-1	1A3-10	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2	1A3-10	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-1	IA3-10	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A3-10	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1A3-10	C/PC-742-1	9841	6W"P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A3-10	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	1A3-10	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A3-10	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
1A3	1A3-10	49-50-83/AC-10C-1	9960	1A3-10	56	1011	1A3-10	3	AUX/EE	AC-RW
1A3	1A3-10	49-50-83/AC-10C-2	9960	1A3-10	56	1011	1A3-10	3	AUX/EE	AC-RW
1A3	1A3-10	49-50-83/AC-10C-3	9960	1A3-10	56	1011	1A3-10	3	AUX/EE	AC-RW
1A3	1A3-10	52/TC/1A3-10	9960	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-10	52X/1A3-10	9960	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-10	52Y/AC-10C	9960	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-10	62-1/AC-10C	9960	1A3	56	1011	EE-8F	3	AUX/EE	AC-RW
1A4	A3-10	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
IA4	1A3-10	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	AC-RW
1A3	1A3-10	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A3-10	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27XI/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-10	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-10	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-24A	1A3-10	27T2/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-24A	1A3-10	27T2S/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
A1-24	1A3-11	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-11	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-11	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-11	51/1A3?	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-11	51/1A3?	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-11	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
Ai-24	1A3-11	86/1A13	9401	A1-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	1A3-11	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	1A3-11	86/1A3-TFB	9406	AI-24	77	1036	Al-41A-16	3	AUX/EE	EE-4A
1A3	1A3-11	50-51/T1B-3A-1	9967	1A3-11	56	1011	1A3-11	3	AUX/EE	EE-4A
1A3	1A3-11	50-51/T1B-3A-2	9967	1A3-11	56	1011	1A3-11	3	AUX/EE	EE-4A
1A3	1A3-11	50-51/T1B-3A-3	9967	1A3-11	56	1011	1A3-11	3	AUX/EE	EE-4A
1A3	1A3-11	52/TC/1A3-11	9967	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-11	52X/1A3-11	9967	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-11	52Y/1A3-11	9967	1A3	56	1011	1A3	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A13-1	9401	A1-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
A1-24	1A3-12	51/1A13-3	9401	A1-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	1A3-12	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	1A3-12	86/1A3-TFB	9406	A1-24	77	1036	AI-41A-16	3	AUX/EE	EE-4A
1A3	1A3-12	50-51/T1B-3B-1	9968	1A3-12	56	1011	1A3-12	3	AUX/EE	EE-4A
1A3	1A3-12	50-51/T1B-3B-2	9968	1A3-12	56	1011	1A3-12	3	AUX/EE	EE-4A
1A3	1A3-12	50-51/T1B-3B-3	9968	1A3-12	56	1011	1A3-12	3	AUX/EE	EE-4A
1A3	1A3-12	52/TC/1A3-12	9968	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-12	52X/1A3-12	9968	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-12	52Y/1A3-12	9968	1A3	56	1011	1A3	3	AUX/EE	EE-4A
A1-24	1A3-13	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A13-2	9401	A.I-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A13-3	9401	A1-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	LA3-13	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	1A3-13	86/1A3-TFB	9406	AI-24	77	1036	AI-41A-16	3	AUX/EE	EE-4A
1A3	1A3-13	50-51/T1B-3C-1	9969	1A3-13	56	1011	1A3-13	3	AUX/EE	EE-4A
1A3	1A3-13	50-51/T1B-3C-2	9969	1A3-13	56	1011	1A3-13	3	AUX/EE	EE-4A
1A3	1A3-13	50-51/T1B-3C-3	9969	1A3-13	56	1011	1A3-13	3	AUX/EE	EE-4A
1A3	1A3-13	52/TC/1A3-13	9969	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-13	52X/1A3-13	9969	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-13	52Y/1A3-13	9969	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-16	27-1/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-16	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	FW-AFW
AI-24A	1A3-16	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24A	1A3-16	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	FW-AFW
AI-24A	1A3-16	27T1S1/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	FW-AFW
AI-24	1A3-16	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-16	51/1A13-2	9401	A1-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-16	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-16	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-16	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
A1-24	1A3-16	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-16	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	FW-AFW
AI-24	1A3-16	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	FW-AFW
AI-30A(S1-1)	1A3-16	62-1-1/FW-6	9801	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
1A3	1A3-16	62-1-1X/FW-6	9801	1A3-16	56	1011	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(S1-2)	1A3-16	62-1-2/FW-6	9801	AI-30A(S1-2)	77	1036	AI-40B-19	3	AUX/EE	FW-AFW
1A3	1A3-16	62-1-2X/FW-6	9801	1A3-16	56	1011	AI-40B-19	3	AUX/EE	FW-AFW
A1-30A(S1-1)	1A3-16	27-i/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(S1-1)	1A3-16	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(S1-2)	1A3-16	27-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30A(S1-2)	1A3-16	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-16	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-16	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-16	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-16	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30B(ESF)	1A3-16	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUXEE	FW-AFW
AI-30B(ESF)	1A3-16	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-16	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-16	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
AC-DC-I	1A3-16	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-16	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-16	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-16	B/PIA-102Y-2	r829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-16	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-16	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	FW-AFW
AC-DC-I	1A3-16	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-16	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	FW-AFW
AC-DC-I	1A3-16	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-16	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	FW-AFW
AC-DC-I	1A3-16	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-16	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	FW-AFW
A/PC-742-1	1A3-16	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
A/PC-742-2	1A3-16	A/PC-742-2	9841	10W°P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW

BOX	ASSEL	RELAY	File	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-1	1A3-16	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
B/PC-742-2	1A3-16	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUXEE	FW-AFW
C/PC-742-1	1A3-16	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
C/PC-742-2	1A3-16	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
D/PC-742-1	1A3-16	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	FW-AFW
D/PC-742-2	1A3-16	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
1A3	1A3-16	49-50-83/FW-6-1	9962	1A3-16	56	1011	1A3-16	3	AUX/EE	FW-AFW
1A3	1A3-16	49-50-83/FW-6-2	9962	1A3-16	56	1011	1A3-16	3	AUX/EE	FW-AFW
1A3	1A3-16	49-50-83/FW-6-3	9962	1A3-16	56	1011	1A3-16	3	AUX/EE	FW-AFW
1A3	1A3-16	52/TC/1A3-16	9962	1A3	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-16	52X/1A3-16	9962	1A3	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-16	52Y/1A3-16	9962	1A3	56	1011	1A3	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2A-2-1	16143	A1-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-199	1A3-16	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	3	AUXEE	FW-AFW
AI-199	1A3-16	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
A1-199	1A3-16	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	1A3-16	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-66A	1A3-16	A/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	3	AUX/EE	FW-AFW
AI-66A	1A3-16	A1/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	3	AUX/EE	FW-AFW
AI-66B	1A3-16	B/RC-2A/AFWS	16143	A1-66B	77	1036	AI-41B-04	3	AUX/EE	FW-AFW
AI-66B	1A3-16	BI/RC-2A/AFWS	16143	A1-66B	77	1036	AI-41B-04	3	AUX/EE	FW-AFW
AI-196	1A3-I6	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2B-2-1	16145	Al-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	1A3-16	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2B-1-2	16145	A1-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	1A3-16	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-198	1A3-16	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2B-2-1	16145	Al-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	1A3-16	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-199	1A3-16	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	1A3-16	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	1A3-16	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	1A3-16	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-66A	1A3-16	A/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	3	AUX/EE	FW-AFW
AI-66A	1A3-16	A1/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	3	AUX/EE	FW-AFW
AI-66B	1A3-16	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	3	AUX/EE	FW-AFW
AI-66B	1A3-16	B1/RC-2B/AFWS	16145	AI-66B	77	1036	A!-41B-04	3	AUX/EE	FW-AFW
1A4	1A3-16	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	FW-AFW
1A4	1A3-16	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	FW-AFW
1A3	1A3-16	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	FW-AFW
1A4	1A3-16	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X1/OPLS-C	16951	CB-4 AUX	27	1036	AI-40C-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-16	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-16	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30B(ESF)	1A3-16	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	FW-AFW
AI-24A	1A3-16	27T2/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	FW-AFW
A1-24A	1A3-16	27T2S/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	FW-AFW
A1-3	1A3-20	A1-3-M1	1587	AI-3	77	1036	NA	3	AUX/EE	DG
AI-3	1A3-20	AI-3-M2	1587	AI-3	77	1036	NA	3	AUX/EE	DG
AI-31A	1A3-20	AI-31A-AW7-K(AB)1	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
AI-31A	1A3-20	AI-31A-AW7-K(AB)2	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
A!-31B	1A3-20	AI-31B-BW19-K1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-BW19-K11	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
Ai-31B	1A3-20	AI-31B-BW19-K13	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-BW19-KTD1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-BW20-K3	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
A1-31B	1A3-20	AI-31B-BW6-K(BC)1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-BW6-K(BC)2	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-BW7-K(BD)1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
Al-31B	1A3-20	AI-31B-BW7-K(BD)2	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-IR-I	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A3-20	AI-31B-IR-2	1587	AI-31B	77	1036	NA	3	AUX'EE	DG
AI-31C	1A3-20	AI-31C-CW6-K(AC)1	1587	AI-31C	77	1036	NA.	3	AUX/EE	DG
AI-31C	1A3-20	AI-31C-CW6-K(AC)2	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A3-20	AI-31C-CW7-K(CD)1	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A3-20	A1-31C-CW7-K(CD)2	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31D	1A3-20	AI-31D-DW6-K(AD)1	1587	AI-31D	77	1036	NA	3	AUX/EE	DG
AI-31D	1A3-20	AI-31D-DW6-K(AD)2	1587	AI-31D	77	1036	NA	3	AUX/EE	DG
AI-133A	1A3-20	ICR/Di	6622	D-1	57	1019	NA	3	AUX/EE	DG
1A3	1A3-20	27-1/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	DG
1A3	1A3-20	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	DG
AI-23	1A3-20	51/1A11-1	9400	A1-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	51/1A11-2	9400	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	51/1A11-3	9400	AI-23	77	1036	NA	3	AUX/EE	DG
A1-23	1A3-20	51/1A31-1	9400	A1-23	77	1036	NA		AUX/EE	DG
AI-23	1A3-20	51/1A31-2	9400	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	51/1A31-3	9400	A1-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	86/1A11	9400	A!-23	77	1036	EE-8F	3	AUX/EE	DG
AI-23	1A3-20	86/1A31	9400	AI-23	77	1036	EE-8F	3	AUX/EE	DG
AI-24	1A3-20	51/1A13-1	9401	A1-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	51/1A13-2	9401	A1-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG
AI-24	1A3-20	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG
A1-25	1A3-20	51/1A24-1	9403	A1-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A3-20	51/1A24-2	9403	A1-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A3-20	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A3-20	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A3-20	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A3-20	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A3-20	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	DG
AI-25	1A3-20	86/1A44	9403	A1-25	77	1036	EE-8G	3	AUX/EE	DG
AI-24	1A3-20	50-51/D1-1	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	50-51/D1-2	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	50-51/D1-3	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	67/D1	9405	Al-24	77	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	1A3-20	86/D1	9405	AI-24	77	1036	AI-41A-16	3	AUX/EE	DG
AI-25	1A3-20	86/D2	9405	AI-25	77	1036	AI-41B-16	3	AUX/EE	DG
AI-24	1A3-20	87/1AD1-1	9405	A1-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	87/1AD1-2	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	87/1ADI-3	9405	AI-24	77	1036	NA	3	AUX/EE	DG
52XX-2/4	1A3-20	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
52XX-2/5	1A3-20	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
AI-22	1A3-20	86-2/SVG1	9406	A1-22	77	1036	EE-8G	3	AUX/EE	DG
AI-25	1A3-20	86/1A4-TFB	9406	Ai-25	77	1036	AI-41B-16	3	AUX/EE	DG
89XX-3/DST1	1A3-20	89XX-3/DST1	9406	0WTD1-0N'I	TURB	1016	EE-8F	3	AUX/EE	DG
AI-23	1A3-20	50-51/T1A-1-1	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	50-51/T1A-1-2	9407	Al-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	50-51/T1A-1-3	9407	Al-23	77	1036	NA	3	AUX/EE	DG
AI-26	1A3-20	50-51/T1A-2-1	9407	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	1A3-20	50-51/T1A-2-2	9407	Al-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A3-20	50-51/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DG
A1-24	1A3-20	50-51/T1A-3-1	9407	A1-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	50-51/T1A-3-2	9407	AI-24	77	1036	NA	3	AU'CEE	DG
AI-24	1A3-20	50-51/T1A-3-3	9407	AI-24	77	1036	NA	3	AUX/EE	DG
TIA-3	1A3-20	63FP/T1A-3	9407	T1A-3	OTDR	1008	NA	3	AUX/EE	DG
AI-24	1A3-20	63FPX-1/T1A-3	9407	AI-24	77	1036	EE-8F	3	AUXEE	DG
T1A-3	1A3-20	63FPX/T1A-3	9407	T1A-3	OTDR	1008	NA	3	AUX/EE	DG
AI-24	1A3-20	86-1/T1A-3	9407	AJ-24	77	1036	AI-41A-16	3	AUX/EE	DG
AI-24	1A3-20	86-2/T1A-3	9407	AI-24	77	1036	EE-8F	3	AUX/EE	DG
AI-21	1A3-20	86-3/G1	9407	AI-21	77	1036	AI-41A-16	3	AUX/EE	DG
AI-21	1A3-20	86-3/GT1	9407	AI-21	77	1036	EE-8G	3	AUX/EE	DG
AI-2I	1A3-20	87/GT1-1	9407	AI-21	77	1036	NA	3	AUX/EE	DG
AI-21	1A3-20	87/GT1-2	9407	AI-21	77	1036	NA .	3	AUX/EE	DG
AI-21	1A3-20	87/GT1-3	9407	AI-21	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	87/T1A-1-1	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A3-20	87/T1A-1-2	9407	A1-23	77	1036	NA	3	AUX/EE	DC
AI-23	1A3-20	87/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-26	1A3-20	87/T1A-2-1	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A3-20	87/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A3-20	87/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DC
AI-24	1A3-20	87/T1A-3-1	9407	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	87/T1A-3-2	9407	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-20	87/T1A-3-3	9407	AI-24	77	1036	NA	3	AUXÆE	DG
A1-22	1A3-20	86/161	9410	AI-22	77	1036	EE-8G	3	AUX/EE	DG
A1-22	1A3-20	87/161-1	9410	AI-22	7?	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-22	1A3-20	87/161-2	9410	AI-22	77	1036	NA	3	AUX/EE	DG
A1-22	1A3-20	87/161-3	9410	AI-22	77	1036	NA	3	AUX/EE	DG
AI-30A(ESF)	1A3-20	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-4: A-05	3	AUX/EE	DG
AI-30A(ESF)	1A3-20	86A/PPLS	9806	Al-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(ESF)	1A3-20	86B1/CPHS	9807	AI-30A(ESF)	77	1016	AI-41B-13	3	AUX/EE	DG
A1-30A(ESF)	1A3-20	86B1/PPLS	9867	AI-30A(ESF)	77	:536	AI-41B-13	3	AUX/EE	DC
AI-133A	1A3-20	27-1/D1	9808	AI-133A	63	1007	NA	3	AUX/EE	DG
AI-30A(D1)	1A3-20	27-1XA/D1	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-133A	1A3-20	27-2/D1	9808	AI-133A	63	1007	NA	3	AUX/EE	DG
Al-30A(D1)	1A3-20	27-2XB/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	3	AUX/EE	DG
AI-30A(D1)	1A3-20	86A-OR/1AD1	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(D1)	1A3-20	86A/D1	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(D1)	1A3-20	86B-OR/1AD1	9808	AI-30A(D1)	77	1036	AI-41B-13	3	AUX/EE	DG
AI-30A(D1)	1A3-20	86B/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	3	AUX/EE	DG
Al-30A(D1)	1A3-20	AC-A/1AD1	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(D1)	1A3-20	AC-AX/1ADI	9808	AI-30A(D1)	77	1036	AI-417-06	3	AUX/EE	DG
AI-30A(D1)	1A3-20	AC-B/IADI	9808	AI-30A(D1)	77	1036	AI-41B-13	3	/.UX/EE	DG
AI-30A(D1)	1A3-20	AC-BX/1AD1	9808	AI-30A(D1)	77	1036	Al-41B-13	3	AUX/EE	DG
AI-30B(ESF)	1A3-20	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A3-20	86B/PPLS	9815	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
CB-1,2,3	1A3-20	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A3-20	A/PIA-102Y-1	9829	AC-DC-1	D	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A3-20	A/PIA-102Y-2	98.79	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	DG
CB-1,2,3	1A3-20	B/PIA-102Y	982	CB-1-2-3	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1A3-20	B/PIA-102Y-1	982°	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1A3-20	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	DG
CB-1,2,3	1A3-20	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC-1	1A3-20	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC 1	1A3-20	C/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40C-01	3	AUX/EE	DG
CB-1,2,3	1A3-20	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-I	1A3-20	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-1	1A3-20	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-1	1A3-20	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A3-20	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	DG
A/PC-742-1	1A3-20	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
A/PC-742-2	1A3-20	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
B/PC-742-1	1A3-20	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	DG
B/PC-742-2	1A3-20	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-1	1A3-20	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-2	1A3-20	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
D/PC-742-1	1A3-20	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	DG	
D/PC-742-2	1A3-20	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG	
1A3	1A3-20	52/TC/1A3-20	9953	1A3	56	1011	EE-IF(DI)	3	AUX/EE	DG	
1A3	1A3-20	52X/1A3-20	9953	1A3	56	1011	EE-1F(D1)	3	AUX/EE	DG	
1A3	1A3-20	52Y/1A3-20	9953	1A3	56	1011	EE-1F(D1)	3	AUX/EE	DG	
144	1A3-20	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	DG	
1A4	1A3-20	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	DG	
1A3	1A3-20	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	DG	
1A4	1A3-20	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG	
(3-4 AUX	1A3-20	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X1/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	DG	
CB-4 AUX	1A3-20	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG	
AI-30A(ESF)	1A3-20	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	. 3	AUX/EE	DG	
AI-30B(ESF)	1A3-20	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG	
D!	1A3-20	D1-21-104E1	17396	D-1	57	1019	NA	3	AUX/EE	DG	
Di	1A3-20	D1-21-104E2	17396	D-I	57	1019	NA	3	AUX/EE	DG	
AI-133A	1A3-20	RS1/D1	17396	AI-133A	63	1007	NA	3	AUX/EE	DG	
AI-133A	1A3-20	RS2/D1	17396	AJ-133A	63	1007	NA	3	AUX/EE	DG	
Di	1A3-20	ICRX/D1	17397	D-I	57	1019	NA	3	AUX/EE	DG	
Di	1A3-20	D1-112	17397	D-1	57	1019	NA	3	AUX/EE	DG	
DI	1A3-20	D1-21-104N	17397	D-1	57	1019	NA	3	AUX/EE	DG	
DI	1A3-20	D1-21-105	17397	D-1	57	1019	NA	3	AUX/EE	DG	
DI	1A3-20	D1-21-105X	17397	D-1	57	1019	NA	3	AUX/EE	DG	
DI	1A3-20	D1-21-112X1	17397	D-1	57	1019	NA	3	AUX/EE	DG	
D1	1A3-20	D1-21-PS7X2	17397	D-1	57	1019	NA	3	AUX/EE	DG	
D:	1A3-20	D1-21-PS9X	17397	D-1	57	1019	NA	3	AUX/E3	DG	
DI	1A3-20	D1-21-TDSTX	17397	D-1	57	1019	NA	3	AUX/EE	DG	
AI-133A	1A3-20	D1-46-TDL	17397	AI-133A	63	1007	NA	3	AUX/EE	DG	
Al-133A	1,:3-20	D1-52-TDSR	17397	AI-133A	63	1007	NA	3	AUX/EE	DG	
DG-1	1A3-2C	PCA-3349	17397	4E'K-6N'1A	63	1012	NA	3	AUX/EE	DG	
DG-I	1A3-20	PS-6019-1	17397	3E'K-5N'1A	63	1013	NA	3	AUX/EE	DG	
DG-1	1A3-20	TCA-3345	17397	4E'K-10N'1A	63	1015	NA	3	AUX/EE	DG	
DI	1A3-20	D1-21-127E2	17398	D-1	57	1019	NA	3	AUX/EE	DG	
YT-6048	1A3-20	YT-6048	17398	2E'K-5N'1A	63	1014	NA	3	AUX/EE	DG	
AI-23A	1A3-20	27-3X/1A3	57238	AI-23A	77	1036	AI-41A-16	3	AUX/EE	DG	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-23A	1A3-20	27T1X/1A1	57238	AI-23A	77	1036	AI-41A-16	3	AUX/SE	DG
A1-23A	1A3-20	27T1Y/1A1	57238	AI-23A	77	1036	AI-41A-16	3	AUX/EE	DG
1A3	1A3-9	27-1/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-9	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	AC-RW
AI-24A	1A3-9	27T1/1A3	9397	AI-24A	77	1036	Al-41A-16	3	AUX/EE	AC-RW
A1-24A	1A3-9	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-24A	1A3-9	27T1S1/1A3	9397	AI-24A	77	1036	Al-41A-16	3	AUX/EE	AC-RW
AI-24	1A3-9	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-9	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-9	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-9	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-9	51/1A33-2	9401	A1-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	LA3-9	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-9	86/1A13	9401	Al-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-24	1A3-9	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-9	62-1-1/AC-10A	9801	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
1A3	1A3-9	62-1-1X/AC-10A	9801	1A3-09	56	1011	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-9	62-1-2/AC-10A	9801	A1-30A(S1-2)	77	1036	AI-40B-19	3	AUX/EE	AC-RW
1A3	1A3-9	62-1-2X/AC-10A	9801	1A3-09	56	1011	AI-40B-19	3	AUX/EE	AC-RW
A1-30A(S1-1)	1A3-9	27-1/\$1-1	9804	A1-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-9	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	Al-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-9	27-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-9	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-9	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-9	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-9	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-9	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-9	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-9	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
CB-1,2,3	1A3-9	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-9	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-9	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-9	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1A3-9	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-9	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-I	1A3-9	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	AC-RW
A/PC-742-1	1A3-9	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2	1A3-9	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-1	1A3-9	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A3-9	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1A3-9	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A3-9	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	1A3-9	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A3-9	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
1A3	1A3-9	49-50-83/AC-10A-1	9958	1A3-09	56	1011	1A3-9	3	AUX/EE	AC-RW
1A3	1A3-9	49-50-83/AC-10A-2	9958	1A3-09	56	1011	1A3-9	3	AUX/EE	AC-RW
1A3	1A3-9	49-50-83/AC-10A-3	9958	1A3-09	56	1011	1A3-9	3	AUX/EE	AC-RW
1A3	1A3-9	52/TC/1A3-9	9958	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-9	52X/1A3-9	9958	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-9	52Y/1A3-9	9958	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-9	62-1/AC-10A	9958	1A3	56	1011	EE-8F	3	AUX/EE	AC-RW
1A4	1A3-9	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
1A4	1A3-9	27-T1/OPLS-B	16951	1A (-1)	56	1011	NA	3	AUX/EE	AC-RW
1A3	1A3-9	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A3-9	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-9	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-9	86A/OPLS	16951	AI-30A(ESF)	77	1036	Al-41A-06	3	AUX/EE	AC-RW
A1-30B(ESF)	1A3-9	86B/OPLS	16951	AI-30B(ESF)	77	1036	A!-41B-06	3	AUX/EE	AC-RW
AI-24A	1A3-9	27T2/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
A1-24A	1A3-9	27T2S/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-3	1A4-1	AI-3-M3	1587	AI-3	77	1036	NA	3	AUX/EE	DG
AI-3	1A4-1	AI-3-M4	1587	AI-3	77	1036	NA	3	AUX/EE	DG
AI-31A	1A4-1	AI-31A-AW7-K(AB)3	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
AI-31A	1A4-1	A1-31A-AW7-K(AB)4	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
AI-31B	1A4-1	A1-31B-BW6-K(BC)3	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
A1-31B	1A4-1	AI-31B-BW6-K(BC)4	1587	AI-31B	77	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-31B	1A4-1	AI-31B-BW7-K(BD)3	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	1A4-1	AI-31B-BW7-K(BD)4	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW19-K12	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	A1-31C-CW19-K14	1587	Al-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW19-K2	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW19-KTD2	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
Al-31C	1A4-I	Al-31C-CW20-K4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A1-1	AI-31C-CW6-K(AC)3	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW6-K(AC)4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW7-K(CD)3	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW7-K(CD)4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-IR-3	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-IR-4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31D	1A4-1	AI-31D-DW6-K(AD)3	1587	AI-31D	77	1036	NA	3	AUX/EE	DG
Al-31D	1A4-1	AI-31D-DW6-K(AD)4	1587	AI-31D	77	1035	NA	3	AUX/EE	DG
AI-133B	1A4-1	ICR/D2	6622	D-2	57	1019	NA	3	AUX/EE	DG
1A4	1A4-1	27-1/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	DG
1A4	1A4-1	27-2/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	DG
AI-24	1A4-1	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	DG
A1-24	1A4-1	51/1A13-2	9401	A1-24	77	1036	NA	3	AUX/EE	DG
A1-24	1A4-1	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	DG
A1-24	1A4-1	51/1A33-1	9401	Al-24	77	1036	NA	3	AUX/EE	DG
AI-24	IA4-1	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AJ-24	1A4-1	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A4-1	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG
AI-24	1A4-1	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG
A1-26	1A4-1	51/1A22-1	9402	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	51/1A22-2	9402	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	1A4-1	51/1A22-3	9402	A1-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	51/1A42-1	9402	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	1A4-1	51/1A42-2	9402	AĬ-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A41	51/1A42-3	9402	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	86/1A22	9402	AI-26	77	1036	EE-8G	3	AUX/EE	DG
A1-26	1A4-1	86/1A42	9402	AI-26	77	1036	EE-8G	3	AUX/EE	DG
A1-25	1A4-1	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A24-2	9403	A1-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A24-3	9403	Al-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A4-1	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-25	1441	86/1A24	9403	A1-25	77	1036	EE-8G	3	AUX/EE	DG
A1-25	1A4-1	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	DG
A1-25	1A4-1	50-51/D2-1	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	50-51/D2-2	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	iA4-1	50-51/D2-3	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	67/D2	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-24	(A4-1	86/D1	9405	AI-24	77	1036	AI-41A-16	3	AUX/EE	DG
A1-25	1A4-1	86/D2	9405	AI-25	77	1036	AI-41B-16	3	AUX/EE	DG
AI-25	1A4-1	87/1AD2-1	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	87/1AD2-2	9405	AI-25	77	1036	NA	3	AUX/EE	DG
Al-25	1A4-1	87/1AD2-3	9405	AI-25	77	1036	NA	3	AUX/EE	DG
52XX-2/4	1A4-1	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
52XX-2/5	1A4-1	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
A1-22	1A4-1	86-2/SVG1	9406	Al-22	77	1036	EE-8G	3	AUX/EE	DG
AI-24	IA4-1	86/1A3-TFB	9406	Al-24	77	1036	AI-41A-16	3	AUX/EE	DG
89XX-3/DST1	1A4-1	89XX-3/DST1	9406	0WTD1-0N'1	TURB	1016	EE-8F	3	AUX/EE	DG
AI-23	1A4-1	50-51/T1A-1-1	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A4-1	50-51/T1A-1-2	9407	AI-23	77	1036	NA	3	AUX/EE	DC
A1-23	1A4-1	50-51/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	50-51/T1A-2-1	9407	Ai-26	77	1036	NA	3	AUX/EE	DG
A1-26	1A4-1	50-51/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	50-51/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	50-51/T1A-4-1	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	50-51/T1A-4-2	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	50-51/T1A-4-3	9407	AI-25	77	1036	NA	3	AUX/EE	DG
TIA-4	1A4-1	63FP/T1A-4	9407	TIA-4	OTDR	1008	NA	3	AUX/EE	DG
AI-25	1A4-1	63FPX-1 T) A-4	9407	AI-25	77	1036	EE-8G	3	AUX/EE	DG
TIA-4	1A4-1	63FPY/T1 A-4	9407	T1A-4	OTDR	1008	NA ·	3	AUX/EE	DG
A1-25	iA4-i	86-17.1A-4	9407	AI-25	77	1036	AI-41A-16	3	AUX/EE	DG
AI-25	1A4-1	86-2/T1A-4	9407	AI-25	77	1036	EE-	3	AUX/EE	DG
AI-25	1A4-1	86-2/T1A-4	5 407	AI-25	77	1036	EE-8G	3	AUX/EE	DG
AI-21	1A4-1	86-3/G1	9407	AI-21	77	1036	AI-41A-16	3	AUX/EE	DG
AI-21	1A4-1	86-3/GT1	9407	AI-21	77	1036	EE-8G	3	AUX/EE	DG
AI-21	1A4-1	37/GT1-1	9407	A1-21	77	1036	NA	3	AUX/EE	DG
A1-21	1A4-I	87/GT1-2	9407	Al-21	77	1036	NA	3	AUX/EE	DG
AI-21	1A4-1	87/GT1-3	9407	AI-21	77	1036	NA	3	AUX/EE	DG
AI-23	1A4-1	87/T1A-1-1	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A4-1	87/T1A-1-2	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A4-1	87/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	87/T1A-2-1	9407	AI-26	77	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-26	1A4-1	87/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	87/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-25	IA4-1	87/T1A-4-1	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	87/T1A-4-2	9407	AI-25	77	1036	NA.	3	AUX/EE	DG
AI-25	1A4-1	87/T1A-4-3	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-30A(ESF)	1A4-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(ESF)	1A4-1	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30B(ESF)	1A4-1	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A4-1	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A4-1	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(ESF)	1A4-1	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	DG
A1-133B	1A4-1	27-1/D2	9818	AI-133B	64	1007	NA	3	AUX/EE	DG
AI-30B(D2)	1A4-1	27-1XA/D2	9818	A1-30B(D2)	77	1036	Al-41A-13	3	AUX/EE	DG
AI-133B	1A4-1	27-2/D2	9818	AI-133B	64	1007	NA	3	AUX/EE	DG
AI-30B(D2)	1A4-1	27-2XB/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	3	AUX/EE	DG
Al-30B(D2)	1A4-1	86A-OR/1AD2	9818	AI-30B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(D2)	1A4-1	86A/D2	9818	AI-30B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(D2)	1A4-1	86B-OR/1AD2	9818	A!-30B(D2)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(D2)	IA4-1	86B/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(D2)	1A4-1	AC-A/IAD2	9818	AI-30B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(D2)	1A4-1	AC-AX/1AD2	9818	AI-36B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(D2)	1A4-1	AC-B/1AD2	9818	AI-30B(D2)	77	1036	AI-41B-06	3	AUX/EE	DG
A1-30B(D2)	1A4-1	AC-BX/1AD2	9818	AI-30B(D2)	77	1036	AI-41B-06	3	AUX/EE	DG
CB-1,2,3	1A4-1	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-I	1A4-1	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A4-1	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	DG
CB-1,2,3	1A4-1	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1A4-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1A4-1	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	DG
CB-1,2,3	1A4-1	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC-1	IA4-1	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	. 3	AUX/EE	DG
AC-DC-1	1A4-1	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	DG
CB-1,2,3	1A4-1	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-1	1A4-1	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-1	1A4-1	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-1	1A4-1	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A4-1	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA		AUX/EE	DG
A/PC-742-1	1A4-1	A/PC-742-1	9841	12W"P-14N'6D	59	1012	NA	3	AUX/EE	DG
A/PC-742-2	1A4-I	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
B/PC-742-1	1A4-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSFATTI	SYSTEM
B/PC-742-2	1A4-1	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-1	1A4-1	C/PC-742-1	9841	6W"P-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-2	1A4-1	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
D/PC-742-1	1A4-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	DC
D/PC-742-2	1A4-1	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
1A4	1A4-I	52/TC/1A4-1	9980	1A4	56	1011	EE-1G(D2)	3	AUX/EE	DG
1A4	1A41	52X/1A4-1	9980	1A4	56	1011	EE-1G(D2)	3	AUX/EE	DG
1A4	1A4-1	52Y/1A4-1	9980	1A4	56	1011	EE-1G(D2)	3	AUX/EE	DG
1A4	1A4-1	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	DG
1A4	1A41	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	DG
1A3	1A4-1	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	DG
1A4	1A4-1	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X1/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X2/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	3	AUX/EE	DG
CB-4 AUX	1A4-1	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG
AI-30A(ESF)	1A4-1	86A/OPLS	16951	Al-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30B(ESF)	1A4-1	86B/OPLS	16951	Al-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
D2	1A4-1	D2-21-104E1	17396	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-104E2	17396	D-2	57	1019	NA	3	AUX/EE	DG
DG-2	1A4-1	PC-6126	17396	3E'K-8S'2B	64	1013	NA	3	AUX/EE	DG
AI-133B	1A4-1	RS1/D2	17396	AI-133B	64	1007	NA	3	AUX/EE	DG
AI-133B	1A4-1	RS2/D2	17396	AI-133B	64	1007	NA	3	AUX/EE	DG
D2	1A4-1	1CRX/D2	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-112	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-104N	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-105	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-105X	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-112X1	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-PS7X2	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-PS9X	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-TDSTX	17397	D-2	57	1019	NA	3	AUX/EE	DG
AI-133B	1A4-1	D2-46-TDL	17397	AI-133B	64	1007	NA	3	AUX/EE	DG
AI-133B	1A4-1	D2-52-TDSR	17397	AI-133B	64	1007	NA	3	AUX/EE	DG
DG-2	1A4-1	PCA-3350	17397	4E'K-9S'2B	64	1012	NA	3	AUX/EE	DG
DG-2	1A4-1	FS-6020-1	17397	3E'K-10S'2B	64	1013	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
DG-2	1A4-1	TCA-3346	17397	4E'K-5S'2B	64	1015	NA	3	AUX/EE	DG
D2	1A4-1	D2-21-127E2	17398	D-2	57	1019	NA	3	AUX/EE	DG
YT-6148	1A4-1	YT-6148	17398	2E'K-10S'2B	64	1014	NA	3	AUX/EE	DG
AI-109B	1A4-1	183X3	43388	AI-109B	56	1014	AI-41B	3	AUX/EE	DG
1A2	1A4-1	27-1/1A2	57240	1A2-04	56	1011	1A2	3	AUX/EE	DG
1A2	1A4-1	27-2/1A2	57240	1A2-04	56	1011	1A2	3	AUX/EE	DG
AI-25A	1A4-1	27-3X/1A4	57240	AI-25A	77	1036	AI-41B-16	3	AUX/EE	DG
A1-26A	1A4-1	27T1/1A2	57240	AI-26A	77	1036	AI-41B-16	3	AUX/EE	DG
AI-26A	1A4-1	27T1X/1A2	57240	AI-26A	77	1036	AI-41B-16	3	AUX/EE	DG
AI-26A	1A41	27T1Y/1A2	57240	AI-26A	77	1036	Al-41B-16	3	AUX/EE	DG
A1-25	1A4-10	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-10	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-10	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-10	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	IA4-10	51/1A44-2	9403	A1-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-10	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-10	86/1A24	9403	A1-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-10	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-10	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	3	AUX/EE	EE-4A
1A4	1A4-10	50-51/T1B-4A-1	9996	1A4	56	1011	1A4-10	3	AUX/EE	EE-4A
1A4	1A4-10	50-51/T1B-4A-2	9996	1A4	56	1011	1A4-10	3	AUX/EE	EE-4A
1A4	IA4-10	50-51/T1B-4A-3	9996	1A4	56	1011	1A4-10	3	AUX/EE	EE-4A
1A4	1A4-10	52/TC/1A4-10	9996	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-10	52X/1A4-10	9996	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-10	52Y/1A4-10	9996	1A4	56	1011	1A4	3	AUX/EE	EE-4A
AI-109B	1A4-10	183X4	43388	AI-109B	56	1014	A1-41B	3	AUX/EE	EE-4A
1A4	1A4-11	27-1/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
IA4	1A4-11	27-2/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
AI-25A	1A4-11	27T1/1A4	9398	A1-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
A1-25A	1A4-11	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-25A	IA4-11	27T1S1/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-26A	1A4-11	27T2/1A4	9398	AI-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-26A	1A4-11	27T2S/1A4	9398	A1-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-25	1A4-11	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-11	51/1A24-2	9403	A1-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-11	51/1A24-3	9403	A1-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-11	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-11	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-11	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-11	86/1A24	9403	Al-25	77	1036	EE-8G	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-25	1A4-11	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-11	86A/CPHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-11	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30B(S2-1)	1A4-11	62-2-1/AC-10B	9811	Al-30B(\$2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
1A4	1A4-11	62-2-1X/AC-10B	9811	1A4	56	1011	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(S2-2)	IA4-11	62-2-2/AC-10B	9811	AI-30B(S2-2)	7?	1036	AI-40A-21	3	AUX/EE	AC-RW
1A4	1A4-11	62-2-2X/AC-10B	9811	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
AI-30B(\$2-1)	1A4-11	27-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
A1-30B(\$2-1)	1A4-11	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(S2-2)	1A4-11	27-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
A1-30B(S2-2)	1A4-11	86-1/\$2-2	9815	AI-30B(\$2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-11	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	IA4-11	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-11	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Al-41A-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-11	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
CB-1,2,3	1A4-11	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-I	1A4-11	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-11	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-11	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-11	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-11	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	3	AUX/EE	AC-RW
CP-1,2,3	1A4-11	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-I	1A4-11	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-11	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
A/PC-742-1	1A4-11	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2	1A4-11	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-1	1A4-11	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A4-11	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1A4-11	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A4-11	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	IA4-11	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A4-11	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
1A4	1A4-11	49-50-83/AC-10B-1	9986	1A4	56	1011	1A4-11	3	AUX/EE	AC-RW
IA4	1A4-11	49-50-83/AC-10B-2	9986	1A4	56	1011	1A4-11	3	AUX/EE	AC-RW
1A4	1A4-11	49-50-83/AC-10B-3	9986	1A4	56	1011	1A4-11	3	AUX/EE	AC-RW
1A4	1A4-11	52/TC/1A4-11	9986	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-11	52X/1A4-11	9986	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-11	52Y/AC-10B	9986	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-11	62-1/AC-10B	9986	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
1A4	1A4-11	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
IA4	1A4-11	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	AC-RW
1A3	IA4-11	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A4-11	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-11	27X2/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-11	86A OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-11	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
IA4	1A4-12	27-1/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	27-2/1A4	9398	1A4-17	56	1011	IA4	3	AUX/EE	AC-RW
A1-25A	1A4-12	27T1/1A4	9398	A1-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
A1-25A	1A4-12	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-25A	1A4-12	27T1S1/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-26A	1A4-12	27T2/1A4	9398	AI-26A	77	1036	Al-41A-16	3	AUX/EE	AC-RW
A1-26A	1A4-12	27T2S/1A4	9398	AI-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
A1-25	1A4-12	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-12	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-12	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	AC-RW
AI-25	1A4-12	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-12	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-12	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30B(S2-1)	1A4-12	62 2-1/AC-10D	9811	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
1A4	1A4-12	62-2-1X/AC-10D	9811	1A4	56	1011	AI-41B-06	3	AUX/EE	AC-RW
A1-30B(S2-2)	1A4-12	62-2-2/AC-10D	9811	AI-30B(S2-2)	77	1036	AI-40A-21	3	AUX/EE	AC-RW
1A4	1A4-12	62-2-2X/AC-10D	9811	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
AI-30B(S2-1)	1A4-12	27-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
A1-30B(S2-1)	iA4-12	86-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(S2-2)	1A4-12	27-1/\$2-2	9815	A1-30B(S2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(S2-2)	1A4-12	86-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86B/CPHS	9816	A1-30B(ESF)	7	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86B/PPLS	9816	AI-30B(ESF)	77	1036	A1-41B-06	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	1A4-12	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Al-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-I	1A4-12	D/P1A-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
A/PC-742-1	1A4-12	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2	1A4-12	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-1	1A4-12	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A4-12	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA.	3	AUX/EE	AC-RW
C/PC-742-1	1A4-12	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A4-12	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	1A4-12	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A4-12	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
1A4	1A4-12	49-50-83/AC-10D-1	9988	1A4	56	1011	IA4-12	3	AUX/EE	AC-RW
IA4	1A4-12	49-50-83/AC-10D-2	9988	1A4	56	1011	1A4-12	3	AUX/EE	AC-RW
1A4	1A4-12	49-50-83/AC-10D-3	9988	1A4	56	1011	1A4-12	3	AUX/EE	AC-RW
1A4	1A4-12	52/TC/1A4-12	9988	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	52X/1A4-12	9988	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	52Y/1A4-12	9988	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	62-1/AC-10D	9988	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
1A4	1A4-12	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
1A4	1A4-12	27-T1/OPLS-B	16951	1A4-17	56	1011	NA ·	3	AUX/EE	AC-RW
1A3	1A4-12	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A4-12	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-A	16951	CB-4 AUX	77	1036	1-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-B	16951	CB-4 AUX	77	1036	A1-10F-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-4.C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D 05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	. 3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
A1-30A(ESF)	1A4-12	86A/OPLS	16951	AI-30A(ESF)	77	1036	Al-41A-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-25	1A4-8	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
Al-25	1A4-8	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-8	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-8	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-8	51/1A44-2	9403	AI-25	. 77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-8	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-8	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
A1-25	1A4-8	86/1A44	9403	A1-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-8	86/1A4-TFB	9406	A1-25	77	1036	AI-41B-16	3	AUX/EE	EE-4A
1A4	1A4-8	50-51/T1B-4C-1	9994	1A4	56	1011	1A4-8	3	AUX/EE	EE-4A
1A4	1A4-8	50-51/T1B-4C-2	9994	1A4	56	1011	1A4-8	3	AUX/EE	EE-4A
1A4	1A4-8	50-51/T1B-4C-3	9994	1A4	56	1011	1A4-8	3	AUX/EE	EE-4A
1A4	1A4-8	52/TC/1A4-8	9994	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-8	52X/1A4-8	9994	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-8	52Y/1A4-8	9994	1A4	56	1011	1A4	3	AUX/FE	EE-4A
.*I-109B	1A48	183X6	43388	AI-109B	56	1014	AI-41B	3	AUX/EE	EE-4A
A1-2.5	1A4-9	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-9	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A44-1	9403	A1-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A44-3	9403	A1-25	77	1036	NA	3	AUX/ZE	EE-4A
AI-25	1A4-9	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-9	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-9	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	3	AUX/EE	EE-4A
1A4	1A4-9	50-51/T1B-4B-1	9995	1A4	56	1011	1A4-9	3	AUX/EE	EE-4A
1A4	1A4-9	50-51/T1B-4B-2	9995	1A4	56	1011	1A4-9	3	AUX/EE	EE-4A
1A4	1A49	50-51/T1B-4B-3	9995	1A4	56	1011	1A4-9	3	AUX/EE	EE-4A
1A4	1A4-9	52/TC/1A4-9	9995	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-9	52X/1A4-9	9995	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-9	52Y/1A4-9	9995	1A4	56	1011	1A4	3	AUX/EE	EE-4A
AI-109B	1A4-9	183X4	43388	Al-109B	56	1014	Al-41B	3	AUX/EE	EE-4A
AI-109B	1A4-9	183X5	43388	AI-109B	56	1014	AI-41B	3	AUX/EE	EE-4A
1B3A	1B3A-1B3A	52/TC/1B3A	57310	1B3A	56	1011	TIB-3A	2	AUX/EE	EE-4B
1B3A	1B3A-1B3A	52CC/1B3A	57310	1B3A	56	1011	T1B-3A	2	AUX/EE	EE-4B
1B3A	1B3A-1B3A	52X/1B3A	57310	1B3A	56	1011	TIB-3A	2	AUX/EE	EE-4B
1B3A	1B3A-1B3A	52Y/1B3A	57310	1B3A	56	1011	T1B-3A	2	AUX/EE	EE-4B
1A3	1B3A-4	27-1/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	CH
1A3	1B3A-4	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	CH
AI-24A	1B3A-4	27T1/1A3	9397	A1-24A	77	1036	AI-41A-16	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24A	1B3A-4	27T1S/1A3	9397	AI-24A	77	1036	Al-41A-16	2	AUX/EE	CH
AI-24	1B3A-4	51/1A13-1	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-4	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
A1-24	1B3A-4	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-4	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-4	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-4	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-4	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	CH
AI-24	1B3A-4	86/1A33	9401	AI-24	77	1036	EE-8F	2	.UX/EE	CH
AC-DC-2	1B3A-4	63X-2/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3A-4	63X/LCA-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3A-4	63XA/LC-101-1	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3A-4	63XA/LC-101-2	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B3A-4	LC-101-1	9513	AI-4B	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B3A-4	LC-101-2	9513	AI-4B	77	1036	AI-42A-07	2	AUX/EE	CH
AI-4A	1B3A-4	LCA-101X	9.13	AI-4A	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B3A-4	LCA-101Y	9513	AI-4B	77	1036	AI-40B-21	2	AUX/EE	CH
A1-30A(S1-1)	1B3A-4	62-1-1/CH-1A	9802	AI-30A(S1-I)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-108A	1B3A-4	62-1-1X/CH-1A	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-2)	1B3A-4	62-1-2/CH-1A	9803	AI-30A(S1-2)	77	1036	AI-40B-19	2	AUX/EE	СН
AI-108A	1B3A-4	62-1-2X/CH-1A	9803	A1-108A	56	1011	AI-40B-19	2	AUX/EE	CH
AI-30A(S1-1)	1B3A-4	27-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(SI-1)	1B3A-4	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
A1-30A(S1-1)	1B3A-4	86-2/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-2)	1B3A-4	27-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	СН
AI-30A(S1-2)	1B3A-4	86-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(S1-2)	1B3A-4	86-2/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(ESF)	1B3A-4	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B3A-4	86A/PPLS	9806	Al-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B3A-4	86B1/CPHS	9807	Al-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(ESF)	1B3A-4	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30B(ESF)	1B3A-4	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B3A-4	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
CB-1,2,3	1B3A-4	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-I	1B3A-4	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-1	1B3A-4	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AJ-40A-01	2	AUX/EE	CH
CB-1,2,3	1B3A-4	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	CH
AC-DC-1	1B3A-4	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
AC-DC-1	1B3A-4	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	2	AUX/EE	CH
CB-1,2,3	1B3A-4	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-I	1B3A-4	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	CH
AC-DC-I	1B3A-4	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	CH
CB-1,2,3	1B3A-4	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3A-4	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-I	1B3A-4	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3A-4	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-I	1B3A-4	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	CH
A/PC-742-1	1B3A-4	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-2	1B3A-4	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-1	1B3A-4	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-2	1B3A-4	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-1	1B3A-4	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-2	1B3A-4	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-1	1B3A-4	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-2	1B3A-4	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
1B3A	1B3A-4	27-1/1B3A	12254	IB3A	56	1011	IB3A	2	AUX/EE	CH
1B3A	1B3A-4	27-2/1B3A	12254	IB3A	56	1011	IB3A	2	AUX/EE	CH
1B3A	1B3A-4	27-T1/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	CH
1B3A	1B3A-4	27T1X/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	CH
1A4	1B3A-4	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	CH
1A4	1B3A-4	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	CH
1A3	1B3A-4	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	CH
1A4	1B3A-4	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27X1/OPLS-A	16951	CB-4 AUX	77	1036	A1-40A-05	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27XI/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27X2/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3A-4	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	СН
CB-4 AUX	1B3A-4	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	СН
AI-30A(ESF)	1B3A-4	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30B(ESF)	1B3A-4	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
1B3A	1B3A-4	52/TC/1B3A-4	57294	1B3A	56	1011	IB3A	2	AUX/EE	CH
1B3A	1B3A-4	52CC/1B3A-4	57294	1B3A	56	1011	1B3A	2	AUX/EE	CH
1B3A	1B3A-4	52X/1B3A-4	57294	1B3A	56	1011	1B3A	2	AUX/EE	CH
1B3A	1B3A-4	52Y/1B3A-4	57294	1B3A	56	1011	1B3A	2	AUX/EE	СН
AC-DC-2	1B3A-4	62X/PCS-224	57294	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B3A-4	63X/PCS-226	57294	AC-DC-2	77	1036	NA	2	AUX/EE	CH
PCS-224	1B3A-4	PCS-224	57294	50WT-8N'6E	6	993	NA	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
PCS-226	1B3A-4	PCS-226	57294	44WT-1N'6E	6	992	AI-40A-20	2	AUX/EE	CH
1B3A	1B3A-4	52XX/1B3A	57310	1B3A	56	1011	EE-8F	2	AUX/EE	CH
1A3	1B3A-7	27-1/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	VA-CON
1A3	1B3A-7	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	VA-CON
AI-24A	1B3A-7	27T1/1A3	9397	AI-24A	77	1036	Al-41A-16	2	AUX/EE	VA-CON
AI-24A	1B3A-7	27T1S/1A3	9397	A1-24A	77	1036	Al-41A-16	2	AUX/EE	VA-CON
AI-24	1B3A-7	51/1A13-1	9401	A1-24	77	1036	NA	2	AUX/EE	VA-CON
A1-24	1B3A-7	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
A1-24	1B3A-7	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
AI-24	1B3A-7	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
AI-24	1B3A-7	51/1A33-2	9401	A1-24	77	1036	NA	2	AUX/EE	VA-CON
AI-24	1B3A-7	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
A1-24	1B3A-7	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	VA-CON
AI-24	1B3A-7	86/1A33	9401	AI-24	77	1036	EE-8F	2	AUX/EE	VA-CON
AI-30A(S1-1)	1B3A-7	62-1-1/VA-3A	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-108A	1B3A-7	62-1-1X/VA-3A	9802	At- JA	56	1011	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(S1-2)	1B3A-7	62-1-2/VA-3A	9803	Al-30A(S1-2)	77	1036	AI-30B-02-04	2	AUX/EE	VA-CON
AI-108A	1B3A-7	62-1-2X/VA-3A	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	VA-CON
AI-30A(S1-1)	1B3A-7	27-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/FE	VA-CON
AI-30A(S1-1)	1B3A-7	86-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
A1-30A(S1-2)	1B3A-7	27-1/S1-2	9805	AI-30A(S1-2)	77	1036	Al-41B-13	2	AUX/EE	VA-CON
AI-30A(S1-2)	1B3A-7	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3A-7	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3A-7	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3A-7	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
Al-30A(ESF)	1B3A-7	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
AI-30B(ESF)	1B3A-7	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(ESF)	1B3A-7	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-54B	1B3A-7	94-18/FD	9828	A1-54B	77	1036	AI-41A-09	2	AUX/EE	VA-CON
CB-1,2,3	1B3A-7	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-1	1B3A-7	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-1	1B3A-7	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	VA-CON
CB-1,2,3	1B3A-7	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	VA-CON
AC-DC-1	1B3A-7	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	VA-CON
AC-DC-I	1B3A-7	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	2	AUX/EE	VA-CON
CB-1,2,3	1B3A-7	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	VA-CON
AC-DC-I	1B3A-7	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	2	AUX/EE	VA-CON
AC-DC-I	1B3A-7	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	VA-CON
CB-1,2,3	1B3A-7	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	2	AUX/EE	VA-CON
AC-DC-1	1B3A-7	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-I	1B3A-7	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	VA-CON
AC-DC-1	1B3A-7	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-1	1B3A-7	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	VA-CON
A/PC-742-1	1B3A-7	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
A/PC-742-2	1B3A-7	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
B/PC-742-1	1B3A-7	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
B/PC-742-2	1B3A-7	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-1	1B3A-7	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-2	1B3A-7	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	2	AUX/EE	V.*. CON
D/PC-742-1	1B3A-7	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-2	1B3A-7	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
1B3A	1B3A-7	27-1/1B3A	12254	IB3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3A	1B3A-7	27-2/1B3A	12254	IB3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3A	1B3A-7	27-T1/1B3A	12254	IB3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3A	1B3A-7	27T1X/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3A	1B3A-7	52/TC/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3A	1B3A-7	52CC/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3A	1B3A-7	52X/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3A	1B3A-7	52XX/VA-3A	12333	1B3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3A	1B3A-7	52Y/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1A4	1B3A-7	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	VA-CON
1A4	1B3A-7	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	VA-CON
1A3	1B3A-7	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	VA-CON
1A4	1B3A-7	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X1/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3A-7	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON
Al-30A(ESF)	1B3A-7	86A/OPLS	16951	AI-30A(ESF)	77	1036	Al-41A-06	2	AUX/EE	VA-CON
AI-30B(ESF)	1B3A-7	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
A1-54B	1B3A-7	94-18X/FD	39723	AI-54B	77	1036	NA	2	AUX/EE	VA-CON
AI-56	1B3A-7	POX-1	39723	AI-56	77	1036	NA	2	AUX/EE	VA-CON
1B3A	1B3A-7	52XX/1B3A	57310	1B3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3B	1B3B-1B3B	52/TC/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-4B
1B3B	1B3B-1B3B	52CC/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-4B
1B3B	1B3B-1B3B	52X/1B3B	57311	1B3B	56	1011	TIB-3B	2	AUX/EE	EE-4B

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1B3B	1B3B-1B3B	52Y/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-4B
1A3	1B3B-4	27-1/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	AC-CCW
1A3	1B3B-4	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	AC-CCW
AI-24A	1B3B-4	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
AI-24A	1B3B-4	27T1S/1A3	9397	AI-24A	77	1036	Al-41A-16	2	AUX/EE	AC-CCW
AI-24	1B3B-4	51/1A13-1	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
A1-24	1B3B-4	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
A1-24	1B3B-4	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4	51/1A33-1	9401	A1-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
A1-24	1B3B-4	86/1A33	9401	A1-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
AI-30A(S1-1)	1B3B-4	62-1-1/AC-3A	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-108A	1B3B-4	62-1-1X/AC-3A	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(\$1-2)	1B3B-4	62-1 2/AC-3A	9803	AI-30A(S1-2)	77	1036	AI-30A-02-05	2	AUX/EE	AC-CCW
Al-108A	1B3B-4	62-1-2X/AC-3A	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	AC-CCW
A1-30A(S1-1)	1B3B-4	27-1X/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-1)	1B3B-4	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-2)	1B3B-4	27-1X/S1-2	9805	AI-30A(S1-2)	77	1036	Al-41B-13	2	AUX/EE	AC-CCW
A1-30A(S1-2)	1B3B-4	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	2	AUX/EE	AC-CCW
Al-30B(ESF)	1B3B-4	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3B-4	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	A/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40A-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1B3B-4	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	AC-CCW
A/PC-742-1	1B3B-4	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-2	1B3B-4	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-1	1B3B-4	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-2	1B3B-4	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-1	1B3B-4	C/PC-742-1	9841	6WP-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-2	1B3B-4	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-1	1B3B-4	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-2	1B3B-4	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
1B3B	1B3B-4	52/TC/1B3B-4	12332	1B3B	56	1011	IB3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4	52CC/1B3B-4	12332	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4	52X/1B3B-4	12332	1B3B	56	1011	IB3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4	52Y/1B3B-4	12332	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4	62-1/AC-3A	12332	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1A4	1B3B-4	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	AC-CCW
1A4	1B3B-4	27-T1/OPLS-B	16951	1A4-17	56	1611	NA	2	AUX/EE	AC-CCW
1A3	1B3B-4	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B3B-4	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X2/OPLS-A	16951	CB-4 AUX	77	1036	A1-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
AI-70A(ESF)	1B3B-4	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
/11-30B(ESF)	1B3B-4	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
IB4A	1B3B-4	52XX/AC-3B	57295	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3C-4C	1B3B-4	52XX/AC-3C	57296	1B3C-4C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3B	1B3B-4	27-1/1B39	57305	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4	27-2/1B3B	57305	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4	27-T1/1B3B	57305	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3B	1B3B-4	27T1X/1B3B	57305	1B3B	56	1011	EE-81	2	AUX/EE	AC-CCW
1B3B	1B3B-4	52XX/1B3B	57311	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1A3	1B3B-4B-5	27-1/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	CH
1A3	1B3B-4B-5	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	CH
AI-24A	1B3B-4B-5	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	CH
AI-24A	1B3B-4B-5	27T1S/1A3	9397	AI-24A	77	1036	Al-41A-16	2	AUX/EE	CH
1A4	1B3B-4B-5	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
IA4	1B3B-4B-5	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	CH
AI-25A	1B3B-4B-5	27T1/1A4	9398	A1-25A	77	1036	AI-41B-16	2	AUX/EE	CH
AI-25A	1B3B-4B-5	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	CH
AI-24	1B3B-4B-5	51/1A13-1	9401	AI-24	77	1036	NA	2	AUX/EE	CH
A1-24	1B3B-4B-5	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
A1-24	1B3B-4B-5	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	СН
AI-24	1B3B-4B-5	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	CH
A1-24	1B3B-4B-5	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3B-4B-5	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3B-4B-5	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	CH
AI-24	1B3B-4B-5	86/1A33	9401	A1-24	77	1036	EE-8F	2	AUX/EE	CH
AI-25	1B3B-4B-5	51/1A24-1	9403	AI-25	77	1036	NA	2	AUX/EE	СН
AI-25	1B3B-4B-5	51/1A24-2	9403	A1-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B3B-4B-5	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B3B-4B-5	51/1A44-1	9403	AI-25	27	1036	NA	2	AUX/EE	CH
AI-25	1B3B-4B-5	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B3B-4B-5	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B3B-4B-5	86/1A24	9403	A1-25	77	1036	EE-8G	2	AUX/EE	CH
AI-25	1B3B-4B-5	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63X-2/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63X/LCA-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63XA/LC-101-1	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63XA/LC-101-2	9513	AC-DC-2	77	1036	A1-40A-20	2	AUX/EE	CH
AI-4B	1B3B-4B-5	LC-101-1	9513	AI-4B	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B3B-4B-5	LC-101-2	9513	AI-4B	77	1036	Al-42A-07	2	AHX/EE	СН
AI-4A	1B3B-4B-5	LCA-101X	9513	AI-4A	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B3B-4B-5	LCA-101Y	9513	AI-4B	77	1036	AI-40B-21	2	AUX/EE	CH
AI-30A(S1-1)	1B3B-4B-5	62-1-1/CH-1C	9802	AI-30A(\$1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-108A	1B3B-4B-5	62-1-1X/CH-1C	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-2)	1B3B-4B-5	62-1-2/CH-1C	9803	AI-30A(S1-2)	77	1036	AI-40B-19	2	AUX/EE	CH
AI-108A	1B3B-4B-5	62-1-2X/CH-1C	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	CH
AI-30A(S1-1)	1B3B-4B-5	27-1X/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-1)	1B3B-4B-5	86-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	СН
A1-30A(S1-1)	1B3B-4B-5	86-2/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-2)	1B3B-4B-5	27-1X/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
A1-30A(S1-2)	1B3B-4B-5	86-1/S1-2	9805	A1-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
A1-30A(S1-2)	1B3B-4B-5	86-2/S1-2	9805	AI-30A(S1-2)	77	1036	Al-41B-13	2	AUX/EE	CH
Al-30A(ESF)	1B3B-4B-5	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B3B-4B-5	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B3B-4B-5	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH
	3400		7007	. J. Suritan)		10.50	A1-41D-13	-	AUNEE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	1B3B-4B-5	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30B(S2-1)	1B3B-4B-5	62-2-1/CH-1C	9812	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
A1-108B	1B3B-4B-5	62-2-1X/CH-1C	9812	AI-108B	56	1011	AI-41B-06	2	AUX/EE	CFi
A1-30B(S2-2)	1B3B-4B-5	62-2-2/CH-1C	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	CH
AI-108B	1B3B-4B-5	62-2-2X/CH-1C	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	СН
AI-30B(S2-1)	1B3B-4B-5	27-1X/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
A1-30B(S2-1)	1B3B-4B-5	86-1/S2-1	9814	AI-30B(S2-1)	77	1036	Al-41B-06	2	AUX/EE	CH
A1-30B(S2-1)	1B3B-4B-5	86-2/\$2-1	9814	AI-30B(\$2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AJ-30B(S2-2)	1B3B-4B-5	27-1X/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
A1-30B(\$2-2)	1B3B-4B-5	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(S2-2)	1B3B-4B-5	86-2/\$2-2	9815	A1-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CP
AI-30B(ESF)	1B3B-4B-5	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B3B-4B-5	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B3B-4B-5	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(ESF)	1B3B-4B-5	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
CB-1,2,3	1B3B-4B-5	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	A/P1A-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	A/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH
CB-1,2,3	1B3B-4B-5	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	СН
AC-DC-1	1B3B-4B-5	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
CB-1,2,3	1B3B-4B-5	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	CH
CB-1,2,3	1B3B-4B-5	D/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40D-01	2	AUX/EE	CH
AC-DC-I	1B3B-4B-5	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3B-4B-5	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-I	1B3B-4B-5	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	CH
A/PC-742-1	1B3B-4B-5	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-2	1B3B-4B-5	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-1	1B3B-4B-5	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-2	1B3B-4B-5	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-1	1B3B-4B-5	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-2	1B3B-4B-5	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-1	1B3B-4B-5	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-2	1B3B-4P-5	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
1A4	1B3B-4B-5	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	CH
1A4	1B3B-4B-5	27-T1/OPLS-B	16951	1A4-17	56	101.	NA	2	AUX/EE	CH
1A3	1B3B-4B-5	27-T1/OPLS-C	16951	1A3-2	56		NA	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1A4	1B3B-4B-5	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27XI/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X1/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X1/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X2/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	2	AUX/EE	CH
CB-4 AUX	1B3B-4B-5	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH
AI-30A(ESF)	1B3B-4B-5	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
Al-30B(ESF)	1B3B-4B-5	86B/OPLS	16951	AI-30B(ESF)	77	1036	Al-41B-06	2	AUX/EE	CH
1B3B-4B	1B3B-4B-5	52/TC/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3R-4B	1B3B-4B-5	52CC/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3B-4B	1B3B-4B-5	52X/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3B-4B	1B3B-4B-5	52Y/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	62X/PCS-230	57297	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63X/PCS-232	57297	AC-DC-2	77	1036	NA	2	AUX/EE	CH
PCS-230	1B3B-4B-5	PCS-230	57297	18WT-9N'6D	6	993	NA	2	AUX/EE	CH
PCS-232	1B3B-4B-5	PCS-232	57297	12WT-1N'6E	6	992	AI-40D-1	2	AUX/EE	CH
1B3B	1B3B-4B-5	27-1/1B3B-4B	57305	1B3B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3B	1B3B-4B-5	27-2/1B3B-4B	57305	1B3B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3B-4B	1B3B-4B-5	27-T1/1B3B-4B	57305	1B3B-4B	56	1011	EE-8G	2	AUX/EE	CH
1B4B	1B3B-4B-5	27T1X/1B3B-4B	57305	1B4B	56	1011	EE-8G	2	AUX/EE	CH
1B3B	1B3B-4B-5	52XX/BT-1B3B	57306	1B3B	56	1011	EE-8F	2	AUX/EE	CH
1B4B	1B3B-4B-5	52XX/BT-1B4B	57307	1B4B	56	1011	EE-8G	2	AUX/EE	CH
1B3B	1B3B-4B-5	52XX/1B3B	57311	1B3B	56	1011	EE-8F	2	AUX/EE	CH
1B4B	1B3B-4B-5	52XX/1B4B	57314	1B4B	56	1011	EE-8G	2	AUX/EE	CH
IB3C	1B3C-1B3C	52/TC/1B3C	57312	1B3C	56	1011	T1B-3C	2	AUX/EE	EE-4B
1B3C	1B3C-1B3C	52CC/1B3C	57312	1B3C	56	1011	T1B-3C	2	AUX/EE	EE-4B
IB3C	1B3C-1B3C	52X/1B3C	57312	1B3C	56	1011	T1B-3C	2	AUX/EE	EE-4B
1B3C	1B3C-1B3C	52Y/1B3C	57312	1B3C	56	1011	T1B-3C	2	AUX/EE	EE-4B
1A3	1B3C-4C-4	27-1/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	AC-CCW
1A3	1B3C-4C-4	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	AC-CCW
A1-24A	1B3C-4C-4	2711/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
AI-24A	1B3C-4C-4	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
IA4	1B3C-4C-4	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
1A4	1B3C-4C-4	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
AI-25A	1B3C-4C-4	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-25A	1B3C-4C-4	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-24	1B3C-4C-4	51/1A13-1	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	1B3C-4C-4	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
A1-24	1B3C-4C-4	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3C-4C-4	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
A1-24	1B3C-4C-4	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3C-4C-4	51/1A33-3	9401	A. 24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3C-4C-4	86/1A13	9401	A1-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
AI-24	1B3C-4C-4	86/1A33	9401	AI-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
AI-25	1B3C-4C-4	51/1A24-1	9403	A1-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B3C-4C-4	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B3C-4C-4	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B3C-4C-4	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B3C-4C-4	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B3C-4C-4	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B3C-4C-4	86/1A24	9403	A1-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
AI-25	1B3C-4C-4	86/1A44	9403	A1-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
A1-30A(S1-1)	1B3C-4C-4	62-1-1/AC-3C	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-108A	1B3C-4C-4	62-1-1X/AC-3C	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-2)	1B3C-4C-4	62-1-2/AC-3C	9803	AI-30A(S1-2)	77	1036	AI-40B-19	2	AUX/EE	AC-CCW
Al-108A	1B3C-4C-4	62-1-2X/AC-3C	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	AC-CCW
A1-30A(S1-1)	1B3C-4C-4	27-1X/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-1)	1B3C-4C-4	86-1/S1-1	9804	Al-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-2)	1B3C-4C-4	27-1X/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(\$1-2)	1B3C-4C-4	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
Al-30A(ESF)	1B3C-4C-4	86A/CPHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3C-4C-4	S6A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3C-4C-4	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3C-4C-4	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B3C-4C-4	62-2-1/AC-3C	9812	A1-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-108B	1B3C-4C-4	62-2-1X/AC-3C	9812	Al-108B	56	1011	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(S2-2)	1B3C-4C-4	62-2-2/AC-3C	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	AC-CCW
Al-108B	1B3C-4C-4	62-2-2X/AC-3C	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B3C-4C-4	27-1X/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B3C-4C-4	86-1/S2-1	9814	A1-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
A1-30B(\$2-2)	1B3C-4C-4	27-1X/S2-2	9815	A1-30B(\$2-2)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
A1-30B(S2-2)	1B3C-4C-4	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	Al-41A-13	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3C-4C-4	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3C-4C-4	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3C-4C-4	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3C-4C-4	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
CB-1,2,3	1B3C-4C-4	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1B3C-4C-4	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3C-4C-4	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3C-4C-4	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	2	AUX/EE	AC-CCW
AC-DC-I	1B3C-4C-4	B/PIA-102Y-1	9829	AC-DC-1	77	1036	Ai-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3C-4C-4	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3C-4C-4	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3C-4C-4	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
AC-DC-I	1B3C-4C-4	C/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40C-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3C-4C-4	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3C-4C-4	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-I	1B3C-4C-4	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-!	1B3C-4C-4	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-i	1B3C-4C-4	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	AC-CCW
A/PC-742-1	1B3C-4C-4	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-2	1B3C-4C-4	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-1	1B3C-4C-4	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-2	1B3C-4C-4	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-1	1B3C-4C-4	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-2	1B3C-4C-4	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-1	1B3C-4C-4	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-2	1B3C-4C-4	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
iB4C	1B3C-4C-4	52XX/BT-1B4C	12255	1B4C	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3B	1B3C-4C-4	52XX/AC-3A	12332	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1A4	1B3C-4C-4	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	AC-CCW
1A4	1B3C-4C-4	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	AC-CCW
1A3	1B3C-4C-4	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	AC-CCW
IA4	1B3C-4C-4	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUXÆE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X1/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X2/OPLS-A	16951	CB-4 AUX	- 77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3C-4C-4	27X2/OPLS-D	16951	CB-4 AUX	77	1036	A!-40D-05	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3C-4C-4	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3C-4C-4	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
IB4A	1B3C-4C-4	52XX/AC-3B	57295	IB4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	52/TC/1B3C-4C-4	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	52CC/1B3C-4C-4	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1B3C-4C	1B3C-4C-4	52X/1BC3-4C-4	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	52Y/AC-3C	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
IB3C	1B3C-4C-4	62-1/AC-3C	57296	1B3C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	27-1/1B3C-4C	57308	IB3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	27-2/1B3C-4C	57308	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	27-T1/1B3C-4C	57308	1B3C-4C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3C-4C	1B3C-4C-4	27T1X/1B3C-4C	57308	1B3C-4C	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3C	1B3C-4C-4	52XX/BT-1B3C	57309	1B3C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3C	1B3C-4C-4	52XX/1B3C	57312	1B3C	56	1011	EE-8F	2	AUX/EE	AC-CCW
IB4C	1B3C-4C-4	52XX/1B4C	57315	1B4C	56	1011	EE-8G	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
AI-25A	IB4A-1	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-25A	1B4A-1	27T1S/1A4	9398	A1-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A24-1	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A44-1	9403	Al-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B4A-1	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A44-3	9403	A1-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
A1-25	1B4A-1	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B4A-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
Al-30A(ESF)	1B4A-1	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/FE	AC-CCW
A1-30B(S2-1)	1B4A-1	62-2-1/AC-3B	9812	AI-30B(S2-1)	77	1036	Al-41B-0*	2	AUX/EE	AC-CCW
AI-108B	1B4A-1	62-2-1X/AC-3B	9812	AI-108B	56	1011	AI-41B J6	2	AUX/EE	AC-CCW
AI-30B(\$2-2)	1B4A-1	62-2-2/AC-3B	9813	AI-30B(S2-2)	77	1036	AI-4C A-21	2	AUX/EE	AC-CCW
A1-108B	1B4A-1	62-2-2X/AC-3B	9813	AI-108B	56	1011	AI-4 A-21	2	AUX/EE	AC-CCW
AI-30B(\$2-1)	1B4A-1	27-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-4 B-06	2	AUX/EE	AC-CCW
AI-30B(\$2-1)	1B4A-1	86-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-4 B-06	2	AUX/EE	AC-CCW
AI-30B(S2-2)	1B4A-1	27-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(S2-2)	1P4A-1	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	Al-41A-13	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86B/PPLS	9816	AI-30B(ESF)	77	1036	Al-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-309(ESF)	1B4A-1	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
CB-1,2,3	1B4A-1	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4A-1	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4A-1	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-I	1B4A-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40B-01	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	1B4A-1	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4A-1	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
CB-1,2,3	IB4A-I	D/PIA-102Y	9829	CB-1-2-3	77	1036	Al-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4A-1	D/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40D-01	2	AUX/EE	AC-CCW
AC-DC-I	1B4A-1	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	A1-40A-01	2	AUX/EE	AC-CCW
A/PC-742-1	1B4A-1	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-2	1B4A-1	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-1	1B4A-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-2	1B4A-1	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-1	1B4A-1	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-2	1B4A-1	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-1	1B4A-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-2	1B4A-1	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
IB4A	1B4A-1	27-1/1B4A	12254	1B4A	56	1011	1B4A	2	AUX/EE	AC-CCW
1B4A	1B4A-1	27-2/1B4A	12254	1B4A	56	1011	IB4A	2	AUX/EE	AC-CCW
1B4A	1B4A-1	27-T1/1B4A	12254	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B4A	1B4A-1	27T1X/1B4A	12254	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3B	1B4A-1	52XX/AC-3A	12332	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	AC-CCW
1A3	1B4A-1	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI 40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
A1-30A(ESF)	1B4A-1	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
1B4A	1B4A-1	52/TC/1B4A-1	57295	1B4A	56	1011	IB4A	2	AUX/EE	AC-CCW
1B4A	1B4A-1	52CC/1B4A-1	57295	IB4A	56	1011	1B4A	2	AUX/EE	AC-CCW
IB4A	1B4A-1	52X/1B4A-1	57295	1B4A	56	1011	IB4A	2	AUX/EE	AC-CCW
IB4A	1B4A-1	52Y/1B4A-1	57295	1B4A	56	1011	1B4A	2	AUX/EE	AC-CCW
1B4A	1B4A-1	62-1/AC-3B	57295	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3C-4C	1B4A-1	52XX/AC-3C	57296	1B3C-4C	56	1011	EE-8F	2	AUX/EE	AC-CCW
IB4A	1B4A-1	52XX/1B4A	57313	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
A1-109B	1B4A-1B4A	183X7	43388	AI-109B	56	1014	Al-41B	2	AUX/EE	EE-4B

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1B4A	1B4A-1B4A	52/TC/1B4A	57313	1B4A	56	1011	TIB-4A	2	AUX/EE	EE-4B
1B4A	1B4A-1B4A	52CC/1B4A	57313	1B4A	56	1011	TiB-4A	2	AUX/EE	EE-4B
1B4A	1B4A-1B4A	52X/1B4A	57313	1B4A	56	1011	T1B-4A	2	AUX/EE	EE-4B
IB4A	1B4A-1B4A	52Y/1B4A	57313	1B4A	56	1011	TIB-4A	2	AUX/EE	EE-4B
AI-109B	1B4B-1B4B	183X8	43388	AI-109B	56	1014	AI-41B	2	AUX/EE	EE-4B
1B4B	1B4B-1B4B	52/TC/1B4B	57314	1B4B	56	1011	T1B-4B	2	AUX/EE	EE-4B
IB4B	1B4B-1B4B	52CC/1B4B	57314	1B4B	56	1011	TIB-4B	2	AUX/EE	EE-4B
1B4B	1B4B-1B4B	52X/1B4B	57314	1B4B	56	1011	T1B-4B	2	AUX/EE	EE-4B
1B4B	1B4B-1B4B	52Y/1B4B	57314	1B4B	56	1011	T1B-4B	2	AUX/EE	EE-4B
AI-109B	1B4C-1B4C	183X9	43388	AI-109B	56	1014	AI-41B	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52/TC/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52CC/FB4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52X/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52Y/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1A4	1B4C-6	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	CH
1A4	1B4C-6	27-2/1A4	9398	IA4-17	56	1011	1A4	2	AUX/EE	CH
A1-25A	1B4C-6	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	CH
A1-25A	1B4C-6	27T1S/1A-4	9398	AI-25A	77	1036	Al-41B-16	2	AUX/EE	CH
AI-25	1B4C-6	51/1A24 1	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-6	51/1A2a-2	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-6	51/1A2%-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-6	51/1A 04-1	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-6	51/1/444-2	9403	A1-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B4C-6	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B4C-6	86 1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	СН
A1-25	1B4C-6	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	CH
AC-DC-2	1B4C-6	€3X-2/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	СН
AC-DC-2	1B4C-6	53X/LCA-101	9513	AC-DC-2	77	1036	A1-40A-20	2	AUX/EE	CH
AC-DC-2	1B4C-6	63XA/LC-101-1	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B4C-6	63XA/LC-101-2	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B4C-6	LC-101-I	9513	AI-4B	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B4C-6	LC-101-2	9513	AI-4B	77	1036	AI-42A-07	2	AUX/EE	CH
AI-4A	1B4C-6	LCA-101X	9513	AI-4A	77	1036	AI-40A-20	2	AUX/EE	СН
AI-4B	1B4C-6	LCA-101Y	9513	AI-4B	77	1036	AI-40B-21	2	AUX/EE	CH
AI-30A(ESF)	1B4C-6	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B4C-6	86A/PPLS	9806	AI-30A(ESF)	77	1936	AI-41A-06	2	AUX/EE	CH
AI-30B(\$2-1)	1B4C-6	62-2-1/CH-1B	9812	AI-30B(S2-1)	77	1036	AJ-41B-06	2	AUX/EE	CH
AI-108B	1B4C-6	62-2-1X/CH-1B	9812	AI-108B	56	1011	AI-41B-06	2	AUX/EE	CH
AI-30B(S2-2)	1B4C-6	62-2-2/CH-1B	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	CH
AI-108B	1B4C-6	62-2-2X/CH-1B	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-30B(S2-1)	1B4C-6	27-1X/S2-1	9814	AI-30B(\$2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
A1-30B(S2-1)	1B4C-6	86-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(\$2-1)	1B4C-6	86-2/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(S2-2)	1B4C-6	27-1X/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
A1-30B(S2-2)	1B4C-6	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(S2-2)	1B4C-6	86-2/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(ESF)	1B4C-6	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B4C-6	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B4C-6	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(ESF)	1B4C-6	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
CB-1,2,3	1B4C-6	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-1	1B4C-6	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	CH
CB-1,2,3	1B4C-6	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	СН
AC-DC-I	1B4C-6	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
CB-1,2,3	1B4C-6	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	СН
AC-DC-1	1B4C-6	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	СН
CB-1,2,3	1B4C-6	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Al-40D-01	2	AUX/EE	СН
AC-DC-I	1B4C-6	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B4C-6	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH
A/PC-742-1	1B4C-6	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-2	1B4C-6	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-1	1B4C-6	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-2	1B4C-6	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	СН
C/PC-742-1	1B4C-6	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-2	1B4C-6	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-1	1B4C-6	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-2	1B4C-6	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
AI-185	1B4C-6	43D/AI-185	12517	AI-185	57	1013	EE-8G-16	2	AUX/EE	СН
1A4	1B4C-6	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	CH
1A4	1B4C-6	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	CH
1A3	1B4C-6	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	СН
1A4	1B4C-6	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	СН
CB-4 AUX	1B4C-6	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	CH
CB-4 AUX	1B4C-6	27X2/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	1B4C-6	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30B(ESF)	1B4C-6	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
IB4C	1B4C-6	52/TC/1B4C-6	57291	1B4C	56	1011	1B4C	2	AUX/EE	CH
1B4C	1B4C-6	52CC/1B4C-6	57291	1B4C	56	1011	1B4C	2	AUX/EE	CH
1B4C	1B4C-6	52X/1B4C-6	57291	1B4C	56	1011	IB4C	2	AUX/EE	СН
1B4C	1B4C-6	52Y/1B4C-6	57291	1B4C	56	1011	IB4C	2	AUX/EE	CH
AC-DC-2	1B4C-6	62X/PCS-227	57291	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B4C-6	63X/PCS-229	57291	AC-DC-2	77	1036	NA	2	AUX/EE	CH
PCS-227	1B4C-6	PCS-227	57291	35WT-10N'6E	6	992	NA	2	AUX/EE	СН
PCS-229	1B4C-6	PCS-229	57291	32WT-1N'6E	6	992	AI-40B-21	2	AUX/EE	CH
1B4C	1B4C-6	27-1/1B4C	57308	1B4C	56	1011	*B4C	2	AUX/EE	CH
1B4C	1F X-6	27-2/1B4C	57308	1B4C	56	1011	1B4C	2	AUX/EE	CH
1B4C	1B4C-6	27-T1/1B4C	57308	IB4C	56	1011	EE-8G	2	AUX/EE	CH
1B4C	1B4C-6	27T1X/1B4C	57308	1B4C	56	1011	EE-8G	2	AUX/EE	CH
1A4	1B4C-8	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	VA-CON
1A4	1B4C-8	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	VA-CON
A1-25A	1B4C-8	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	VA-CON
AI-25A	1B4C-8	27T1S/1A4	9398	A1-25A	77	1036	AI-41B-16	2	AUX/EE	VA-CON
AI-25	1B4C-8	51/1A24-1	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	1B4C-8	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	1B4C-8	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	1B4C-8	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	1B4C-8	51/1A44-2	9403	AI-25	77	1036	NA .	2	AUX/EE	VA-CON
A1-25	1B4C-8	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	1B4C-8	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	VA-CON
AI-25	!B4C-8	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	VA-CON
AI-30A(ESF)	1B4C-8	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	2	AUX/EE	VA-CON
Al-30A(ESF)	1B4C-8	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30B(S2-1)	1B4C-8	62-2-1/VA-3B	9812	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-108B	1B4C-8	62-2-1X/VA-3B	9812	AI-108B	56	1011	AI-41B-06	2	AUX/EE	VA-CON
A1-30B(S2-2)	1B4C-8	62-2-2/VA-3B	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	VA-CON
AI-108B	1B4C-8	62-2-2X/VA-3B	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	VA-CON
AI-30B(S2-1)	1B4C-8	27-1X/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(S2-1)	1B4C-8	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EL	VA-CON
A1-30B(S2-2)	1B4C-8	27-1X/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	VA-CON
A1-30B(S2-2)	1B4C-8	86-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EF.	VA-CON
AI-30B(ESF)	1B4C-8	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(ESF)	iB4C-8	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(ESF)	1B4C-8	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CON
Ai-30B(ESF)	1B4C-8	86A1/PPLS	9817	AI-30B(ESF)	77	1036	Al-41A-13	2	AUX/EE	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-54B	1B4C-8	94-17/FD	9828	AI-54B	77	1036	AI-41A-09	2	AUX/EE	VA-CON
CB-1,2,3	1B4C-8	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-I	1B4C-8	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	VA-CON
CB-1,2,3	1B4C-8	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	VA-CON
AC-DC-I	1B4C-8	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	VA-CON
CB-1,2,3	1B4C-8	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	VA-CON
AC-DC-I	1B4C-8	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	2	AUX/EE	VA-CON
CB-1,2,3	1B4C-8	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	2	AUX/EE	VA-CON
AC-DC-I	1B4C-8	D/PtA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	VA-CON
AC CC-I	1B4C-8	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	Ai-40A-01	2	AUX/EE	VA-CON
A/PC-742-1	1B4C-8	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
A/PC-742-2	1B4C-8	A/PC-742-2	9841	10W'P-14N'6D	59	1312	NA	2	AUX/EE	VA-CON
B/PC-742-1	1B4C-8	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
B/PC-742-2	1B4C-8	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-1	1B4C-8	C/P:-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-2	1B4C-8	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-1	1B4C-8	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-2	1B4C-8	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
1A4	1B4C-8	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	VA-CON
1A4	1B4C-8	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	VA-CON
1A3	1B4C-8	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	VA-CON
1A4	1B4C-8	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X2/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	1B4C-8	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	IB4C-8	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON
AI-30A(ESF)	1B4C-8	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30B(ESF)	1B4C-8	86B/OPLS	16951	Al-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-54B	1B4C-8	94-17X/FD	39723	AI-54B	77	1036	NA	2	AUX/EE	VA-CON
A1-56	1B4C-8	POX-1	39723	AI-56	77	1036	NA	2	AUX/EE	VA-CON
1B4C	1B4C-8	52/TC/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
1B4C	1B4C-8	52CC/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
1B4C	1B4C-8	52X/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
IB4C	1B4C-8	52Y/1B4C-8	57300	1B4C	56	1011	IB4C	2	AUX/EE	VA-CON
1B4C	1B4C-8	27-T1/1B4C	57308	1B4C	56	1011	EE-8G	2	AUX/EE	VA-CON
IB4C	1B4C-8	27T1X/1B4C	57308	1B4C	56	1011	EE-8G	2	AUX/EE	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-12A CTRL	AC-12A-M	m/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
AC-12A CTRL	AC-12A-M	M/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
MCC-3B3	AC-12A-M	m/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
MCC-3B3	AC-12A-M	m/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
AC-12A CTRL	AC-12A-M	TR/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
AC-12B CTRL	AC-12B-M	~ AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
AC-12B CTRL	AC-12B-M	w. C-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
MCC-4C4	AC-12B-M	M/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
MCC-4C4	AC-12B-M	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
AC-12B CTRL	AC-12B-M	TR/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	G	AUX/RW	AC-RW
ATA-DI	ATA-DI	IV/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-DI	ATA-D1	2V/ATA-D1	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-DI	ATA-DI	3V/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-DI	ATA-DI	LO/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-DI	ATA-DI	SE/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-DI	ATA-DI	TS/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-D2	ATA-D2	1V/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4Ai	20	AUX/EE	DG
ATA-D2	ATA-D2	2V/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATA-D2	ATA-D2	3V/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATA-D2	ATA-D2	LO/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATA-D2	ATA-D2	SE/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATA-D2	ATA-D2	TS/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATD-DI	ATD-DI	LO/ATD-DI	22025	7W'D-12N'1A	63	1013	DC-BUS-1# CB	20	AUX/EE	DG
ATD-DI	ATD-D1	SE/ATD-DI	22025	7W'D-12N'1A	63	1013	DC-BUS-1# CB	20	AUX/EE	DG
ATD-DI	ATD-D1	TS/ATD-D1	22025	7W'D-12N'1A	63	1013	DC-BUS-1# CB	20	AUX/EE	DG
ATD-D2	ATD-D2	LO/ATD-D2	22025	8W'D-0N'2A	64	1013	DC-BUS-2# CB	20	AUX/EE	DG
ATD-D2	ATD-D2	SE/ATD-D2	22025	8W'D-0N'2A	64	1013	DC-BUS-2# CB	20	AUX/EE	DG
ATD-D2	ATD-D2	TS/ATD-D2	22025	8W'D-0N'2A	64	1013	DC-BUS-2# CB	20	AUX/EE	DG
1B3A	BT-1B3A	52/TC/BT-1B3A	57303	1B3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3A	BT-1B3A	52CC/BT-1B3A	57303	IB3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3A	BT-1B3A	52X/BT-1B3A	57303	1B3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3A	BT-1B3A	52Y/BT-1B3A	57303	IB3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3A	BT-1B3A	52XX/1B3A	57310	IB3A	56	1011	EE-8F	2	AUX/EE	EE-4B
IB3C	BT-1B3C	52/TC/BT-1B3C	57309	1B3C	56	1011	1B3C	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52CC/BT-1B3C	57309	IB3C	56	1011	1B3C	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52X/BT-1B3C	57309	1B3C	56	1013	1B3C	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52Y/BT-1B3C	57309	1B3C	56	1011	1B3C	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52XX/1B3C	57312	1B3C	56	1011	EE-8F	2	AUXEE	EE-4B
1B4B	BT-1B4B	52/TC/BT-1B4B	57307	1B4B	56	1011	1B4B	2	AUX/EE	EE-4B
IB4B	BT-1B4B	52CC/BT-1B4B	57307	1B4B	56	1011	1B4B	2	AUX/EE	EE-4B

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1B4B	BT-1B4B	52X/BT-1B4B	57307	tB4B	56	1011	1B4B	2	AUX/EE	EE-4B
1B4B	BT-1B4B	52Y/BT-1B4B	57307	1B4B	56	1011	IB4B	2	AUX/EE	EE-4B
1B4B	BT-1B4B	52XX/1B4B	57314	184B	56	1011	EE-8G	2	AUX/EE	EE-4B
AI-3	DG-1	AI-3-M1	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
AI-3	DG-1	AI-3-M2	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
AI-31A	DG-1	AI-31A-AW7-K(AB)1	1587	Al-31A	77	1036	NA	17	AUX/EDG	DG
AI-31A	LG-1	AI-31A-AW7-K(AB)2	1587	AI-31A	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-BW19-K1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
A1-31B	DG-1	AI-31B-BW19-K11	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-BW19-K13	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-BW19-KTD1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31P	DG-1	A1-31B-BW20-K3	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-BW6-K(BC)1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-BW6-K(BC)2	1587	AI-31B	77	1036	NA	17	AUX/EDC	DG
AI-31B	DG-1	AI-31B-BW7-K(BD)1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-BW7-K(BD)2	1587	Al-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-IR-1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-1	AI-31B-IK-2	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW6-K(AC)1	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW6-K(AC)2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW7-K(CD)1	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW7-K(CD)2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
A1-31D	DG-1	AI-31D-DW6-K(AD)1	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
AI-31D	DG-I	Al-31D-DW6-K(AD)2	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
AI-133A	DG-1	ICR/DI	6622	D-1	57	1019	NA	17	AUX/EDG	DG
1A3	DG-1	27-1/1A3	9397	1A3-04	56	1011	1A3	£7	AUX/EDG	DG
1A3	DG-1	27-2/1A3	9397	1A3-04	56	1011	1A3	17	AUX/EDG	DG
A1-23	DG-1	51/1A11-1	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
A1-23	DG-1	51/1A11-2	9400	AJ-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-1	51/1A11-3	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-1	51/1A31-1	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-1	51/1A31-2	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-1	51/1A31-3	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
A1-23	DG-1	86/1A11	9400	AI-23	77	1036	EE-8F	17	AUX/EDG	DG
AI-23	DG-1	86/1A31	9400	A1-23	77	1036	EE-8F	17	AUX/EDG	DG
AI-24	DG-1	86/1A13	9401	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
AI-24	DG-1	86/1A33	9401	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
AI-25	DG-1	51/1A24-1	9403	A1-25	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-1	51/1A24-2	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-1	51/1A24-3	9403	A1-25	77	1036	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-25	DG-1	51/1A44-1	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-1	51/1A44-2	9403	A1-25	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-1	51/1A44-3	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-1	86/1A24	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
AI-25	DG-1	86/1A44	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
A1-24	DG-1	50-51/D1-1	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-1	50-51/D1-2	9405	A1-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-1	50-51/D1-3	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-1	67/DI	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-1	86/D1	9405	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-25	DG-1	86/D2	9405	AI-25	77	1036	AI-41B-16	17	AUX/EDG	DG
A1-24	DG-1	87/1AD1-1	9405	Al-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-1	87/1AD1-2	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-1	87/1AD1-3	9405	A1-24	77	1036	NA	17	AUX/EDG	DG
52XX-2/4	DG-I	52XX-2/4	9406	9E'D-IN'IA	56	1011	NA	17	AUX/EDG	DG
52XX-2/5	DG-1	52XX-2/5	9406	9E'D-IN'IA	56	1011	NA	17	AUX/EDG	DG
AI-22	DG-1	86-2/SVG1	9406	A1-22	77	1036	EE-8G	17	AUX/EDG	DG
AI-25	DG-1	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	17	AUX/EDG	DG
89XX-3/DST1	DG-1	89XX-3/DST1	9406	0WTD1-0N'1	TURB	1016	EE-8F	17	AUX/EDG	DG
AI-23	DG-1	50-51/T1A-1-1	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-1	50-51/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-1	50-51/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-1	50-51/T1A-2-1	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-1	50-51/T1A-2-2	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-1	50-51/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-1	50-51/T1A-3-1	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-1	50-51/T1A-3-2	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-1	50-51/T1A-3-3	9407	A1-24	77	1036	NA	17	AUX/EDG	DG
TIA-3	DG-1	63FP/T1A-3	9407	T1A-3	OTDR	1008	NA	17	AUX/EDG	DG
A1-24	DG-1	63FPX-1/T1A-3	9407	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
T1A-3	DG-1	63FPX/T1A-3	9407	T1A-3	OTDR	1008	NA	17	AUX/EDG	DG
AI-24	DG-1	86-1/T1A-3	9407	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-24	DG-1	86-2/T1A-3	9407	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
A1-21	DG-1	86-3/G1	9407	AI-21	77	1036	AI-41A-16	17	AUX/EDG	DG
A1-21	DG-1	86-3/GT1	9407	AI-21	77	1036	EE-8G	17	AUX/EDG	DG
AI-21	DG-1	87/GT1-1	9407	AI-21	77	1036	NA	17	AUX/EDG	DG
A1-21	DG-1	37/GT1-2	9407	AI-21	77	1036	NA	17	AUX/EDG	DG
AI-21	DG-1	GT1-3	9407	AI-21	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-I	T1A-1-1	9407	Al-23	77	1036	NA	17	AUX/EDG	DG
A1-23	DG-I	//T1A-1-2	9407	AI-23	77	1036	NA	17	. AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATP.	SYSTEM
AJ-23	DG-1	87/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-1	87/T1A-2-1	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-1	87/T1A-2-2	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-1	87/T1A-2-3	9407	Al-26	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-1	87/T1A-3-1	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-1	87/T1A-3-2	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-1	87/T1A-3-3	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-22	DG-1	86/161	9410	AI-22	77	1036	EE-8G	17	AUX/EDG	DG
AI-22	DG-1	87/161-1	9410	AI-22	77	1036	NA	17	AUX/EDG	DG
AI-22	DG-1	87/161-2	9410	AI-22	77	1036	NA	17	AUX/EDG	DG
AI-22	DG-1	87/161-3	9410	AI-22	77	1036	NA	12	AUX/EDG	DG
AI-30A(ESF)	DG-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	DG-1	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	DG-1	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30A(ESF)	DG-1	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30A(D1)	DG-1	27-1XA/D1	9808	AI-30A(D1)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(D1)	DG-1	27-2XB/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30A(D1)	DG-1	86A/D1	9808	AI-30A(D1)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(D1)	DG-1	86B/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	17	AUX/EDG	DG
Al-30B(ESF)	DG-1	86B/CPHS	9816	AI-30B(ESF)	77	1036	AJ-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	DG-1	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
CB-1,2,3	DG-1	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-1	A/P1A-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-1	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	17	AUX/EDG	DG
CB 3	DG-1	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	17	AUX/EDG	DG
AC-L I	DG-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	Ai-40B-01	17	AUX/EDG	DG
AC-DC-I	DG-1	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	17	AUX/EDG	DG
CB-1,2,3	DG-1	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	17	AUX/EDG	DG
AC-DC-I	DG-1	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	17	AUX/EDG	DG
AC-DC-1	DG-1	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	17	AUX/EDG	DG
CB-1,2,3	DG-1	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-I	DG-1	D/PIA-102Y-1	9829	AC-DC-1	- 77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	DG-1	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-I	DG-1	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-1	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	17	AUX/EDG	DG
A/PC-742-1	DG-1	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
A/PC-742-2	DG-1	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA.	17	AUX/EDG	DG
B/PC-742-1	DG-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	17	AUX/EDG	DG
B/PC-742-2	DG-1	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-1	DG-1	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-2	DG-1	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-1	DG-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-2	DG-1	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
AI-133A	DG-1	AI-133A-2CR	10791	AI-133A	63	1007	NA	17	AUX/EDG	DG
AI-133A	DG-1	AI-133A-41C	10791	AI-133A	63	1007	NA	17	AUX/EDG	DG
AI-133A	DG-I	AI-133A-94	10791	AI-133A	63	1007	NA	17	AUX/EDG	DG
1A4	DG-I	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	17	AUX/EDG	DG
1A4	DG-1	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	17	AUX/EDG	DG
1A3	DG-1	27-TI/OPLS-C	16951	1A3-2	56	1011	NA	17	AUX/EDG	DG
1A4	DG-1	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	17	AUX/EDG	DG
CB-4 AUX	DG-I	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	DG-1	27X1/OPLS-B	16951	CB-4 **IX	77	1036	AI-40B-03	17	AUX/EDG	DG
CB-4 AUX	DG-1	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	17	AUX/EDG	DG
CB-4 AUX	DG-I	27X1/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	17	AUX/EDG	DG
CB-4 AUX	DG-1	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	DG-1	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	17	AUX/EDG	DG
CB-4 AUX	DG-1	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	17	AUX/EDG	DG
CB-4 AUX	DG-1	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	17	AUX/EDG	DG
AI-30A(ESF)	DG-1	85A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30B(ESF)	DG-1	86B/OPLS	16951	AI-30B(ESF)	77	1036	Al-41B-06	17	AUX/EDG	DG
AI-133A	DG-I	ACCI/DI	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
AI-133A	DG-1	ACC2/D1	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-I	D1-21-104E1	17396	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-I	D1-21-104E1X	17396	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-104E2	17396	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-104E2X	17396	D-I	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-127E1	17396	D-1	57	1019	NA	17	AUX/EDG	DC
DI	DG-1	DI-44-SVIX	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
Di	DG-1	D1-45-SV2X	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-49-TDS1	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-50-TDS2	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DG-1	DG-1	PC-6026	17396	3E'K-8N'1A	63	1013	NA	17	AUX/EDG	DG
DG-1	DG-1	PC-6038	17396	0E'F-5N'1A	63	1009	NA	17	AUX/EDG	DG
DG-1	DG-1	PC-6039	17396	0E'F-11N'1A	63	1009	NA	17	AUX/EDG	DC
AI-133A	DG-1	RSI/DI	17396	Al-133A	63	1007	NA	17	AUX/EDG	DG
AI-133A	DG-1	RS2/D1	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	ICRX/DI	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-112	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-178-42BPM1	17397	D1	63	1007	NA	17	AUX/EDG	DG
Di	DG-1	D1-178-42BPM2	17397	DI	63	1007	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
DI	DG-1	D1-178-42FP	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-18A-103CX	17397	DI	63	1010	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-103A	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-I	D1-21-103B	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-103BX	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-I	D1-21-103C	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-I	D1-21-104N	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-104NX	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-105	17397	D-1	- 57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-105X	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-I	D1-21-112X1	17397	D-1	57	1019	NA	17	AUX/EDG	DG
D1	DG-1	D1-21-PS7X2	17397	D-I	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-PS9X	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-TDSTX	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-46-TDL	17397	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-47-TDSF	17397	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-52-TDSR	17397	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-66-42BPM1	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-67-42BPM2	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-68-42FP	17397	DI	63	1007	NA	17	AUX/EDG	DG
DG-1	DG-1	PCA-3349	17397	4E'K-6N'1A	63	1012	NA	17	AUX/EDG	DG
DG-1	DG-1	PS-6019-1	17397	3E'K-5N'1A	63	1013	NA	17	AUX/EDG	DG
DG-1	DG-1	TCA-3345	17397	4E'K-10N'1A	63	1015	NA	17	AUX/EDG	DG
DI	DG-1	D1-2/-127E2	17398	D-1	57	1019	NA	17	AUX/EDG	DG
YT-6048	DG-1	YT-6048	17398	2E'K-5N'1A	63	1014	NA	17	AUX/EDG	DG
DI	DG-1	DI-65 42BPM1	17410	AI-133A	63	1007	NA	17	AUX/EDG	DG
Di	DG-1	D1-66-42BPM1	17410	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-67-42BPM2	17410	AI-133A	63	1007	NA .	17	AUX/EDG	DG
DI	DG-1	D1-67-42BPM2	17410	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-68-42FP	17411	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-68-42FP	17411	DI	63	1007	NA	17	AUX/EDG	DG
AI-23A	DG-1	27-3X/1A3	57238	AI-23A	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-23A	DG-1	27T1X/1A1	57238	AI-23A	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-23A	DG-1	27T1Y/1A1	57238	AI-23A	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-3	DG-2	AI-3-M3	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
AI-3	DG-2	AI-3-M4	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
AI-31A	DG-2	AI-31A-AW7-K(AB)3	1587	AI-31A	77	1036	NA	17	AUX/EDG	DG
AI-31A	DG-2	AI-31A-AW7-K(AB)4	1587	AI-31A	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-2	AI-31B-BW6-K(BC)3	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-2	AI-31B-BW6-K(BC)4	1587	AJ-31B	77	1036	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-31B	DG-2	Al-31B-BW7-K(BD)3	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	DG-2	AI-31B-BW7-K(BD)4	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW19-K12	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW19-K14	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
Al-31C	DG-2	AI-31C-CW19-K2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW19-KTD2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW20-K4	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW6-K(AC)3	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW6-K(AC)4	1587	Al-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW7-K(CD)3	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW7-K(CD)4	1587	Al-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-IR-3	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-IR-4	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31D	DG-2	AI-31D-DW6-K(AD)3	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
AI-31D	DG-2	AI-31D-DW6-K(AD)4	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
AI-133B	DG-2	ICR/D2	6622	D-2	57	1019	NA	17	AUX/EDG	DG
1A4	DG-2	27-1/1A4	9398	1A4-17	56	1011	1A4	17	AUX/EDG	DG
1A4	DG-2	27-2/1A4	9398	1A4-17	56	1011	1A4	17	AUX/EDG	DG
Al-24	DG-2	51/1A13-1	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-2	51/1A13-2	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-2	51/1A13-3	9401	A1-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-2	51/1A33-1	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-2	51/1A33-2	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	DG-2	51/1A33-3	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	DG-2	86/1A13	9401	A!-24	77	1036	EE-8F	17	AUX/EDG	DG
AI-24	DG-2	86/1A33	9401	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
A1-26	DG-2	51/1A22-1	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	51/1A22-2	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-2	51/1A22-3	9402	A1-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	51/1A42-1	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-2	51/1A42-2	9402	Al-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	51/1A42-3	9402	AI-26	- 77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	86/1A22	9402	AI-26	77	1036	EE-8G	17	AUX/EDG	DG
A1-26	DG-2	86/1A42	9402	AI-26	77	1036	EE-8G	17	AUX/EDG	DG
A1-25	DG-2	86/1A24	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
AI-25	DG-2	86/1A44	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
A1-25	DG-2	50-51/D2-1	9405	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-2	50-51/D2-2	9405	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	50-51/D2-3	9405	A1-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	67/D2	9405	A1-25	77	1036	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	DG-2	86/D1	9405	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-25	DG-2	86/D2	9405	AI-25	77	1036	AI-41B-16	17	AUX/EDG	DG
A1-25	DG-2	87/1AD2-1	9405	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	87/1AD2-2	9405	A1-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	87/1AD2-3	9405	AI-25	77	1036	NA	17	AUX/EDG	DG
52XX-2/4	DG-2	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	17	AUX/EDG	DG
52XX-2/5	DG-2	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	17	AUX/EDG	DG
A1-22	DG-2	86-2/SVG1	9406	AI-22	77	1036	EE-8G	17	AUX/EDG	DG
AI-24	DG-2	86/1A3-TFB	9406	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
39XX-3/DST1	DG-2	89XX-3/DST1	9406	OWTD1-0N'1	TURB	1016	EE-8F	17	AUX/EDG	DG
AI-23	DG-2	50-51/T1A-1-1	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	50-51/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	50-51/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	50-51/T1A-2-1	9407	AI-26	77	1036	NA	17	ALX/EDG	DG
AI-26	DG-2	50-51/T1A-2-2	9407	AI-26	77	1036	NA	17	AL X/EDG	DG
A1-26	DG-2	50-51/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-2	50-51/T1A-4-1	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	50-51/T1A-4-2	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	50-51/T1A-4-3	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
TIA-4	DG-2	63FP/T1A-4	9407	T!A-4	OTDR	1008	NA	17	AUN EDG	DG
A1-25	DG-2	63FPX-1/T1A-4	9407	AI-25	77	1036	EE-8G	17	AUX EDC	DG
TIA-4	DG-2	63FPX/T1A-4	9407	TIA-4	OTDR	1008	NA	17	AUX/EDG	DG
A1-25	DG-2	86-1/T1A-4	9407	AI-25	77	1036	Al-41A-16	17	AUX/EDG	DG
A1-25	DG-2	86-2/T1A-4	9407	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
AI-25	DG-2	86-2/T1A-4	9407	AI-25	77	1036	EE-	17	AUX/EDG	DG
AI-21	DG-2	86-3/G1	9407	AI-21	77	1036	Al-41A-16	17	AUX/EDG	DG
AI-21	DG-2	86-3/GT1	9407	A1-21	77	1036	EE-8G	17	AUX/EDG	DG
AI-21	DG-2	87/GT1-1	9407	AI-21	77	1036	NA	17	AUX/EDG	DG
AI-21	DG-2	87/GT1-2	9407	AI-21	77	1036	NA	17	AUX/EDG	DG
A1-21	DG-2	87/GT1-3	9407	Al-21	77	1036	NA	17	AUX/EDG	DG
A1-23	DG-2	87/T1A-1-1	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	87/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	87/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-2	87/T1A-2-1	9407	A1-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	87/T1A-2-2	9407	A1-26	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-2	87/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-2	87/T1A-4-1	9407	A1-25	77	1036	NA	17	AUX/EDG	DG
A1-25	DG-2	87/T1A-4-2	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	DG-2	87/T1A-4-3	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-30A(ESF)	DG-2	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	DG-2	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	17	AUX/EDG	DG
A1-30B(ESF)	DG-2	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	DG-2	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	DG-2	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	17	AUX/EDG	DG
AI-30B(ESF)	DG-2	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	17	AUX/EDG	DG
AI-30B(D2)	DG-2	27-1XA/D2	9818	A1-30B(D2)	77	1036	AI-41A-13	17	AUX/EDG	DG
AI-30B(D2)	DG-2	27-2XB/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(D2)	DG-2	86A/D2	9818	A1-30B(D2)	77	1036	Al-41A-13	17	AUX/EDG	DG
AI-30B(D2)	DG-2	86B/D2	9818	A1-30B(D2)	77	1036	AI-41B-06	1.7	AUX/EDG	DG
CB-1,2,3	DG-2	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-2	A/P1A-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-2	A/PIA-102Y-2	9829	AC-DC-!	77	1036	AI-40A-01	17	AUX/EDG	DG
CB-1,2,3	DG-2	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	17	AUX/EDG	DG
AC-DC-1	DG-2	B/PIA-102Y-1	9829	AC-DC-1	77	1030	AI-402-01	17	AUX/EDG	DG
AC-DC-I	DG-2	B/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	17	AUX/EDG	DG
CB-1,2,3	DG-2	C/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	17	AUX/EDG	DG
AC-DC-I	DG-2	C/PIA-102Y-I	9829	AC-DC-1	77	1036	AI-40C-01	17	AUX/EDG	DG
AC-DC-1	DG-2	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	17	AUX/EDG	DG
CB-1,2,3	DG-2	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-I	DG-2	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	DG-2	D/P!A-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	DG-2	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-2	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	17	AUX/EDG	DG
A/PC-742-1	DG-2	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
A/PC-742-2	DG-2	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
B/PC-742-1	DG-2	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	17	AUX/EDG	DG
B/PC-742-2	DG-2	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-1	DG-2	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-2	DG-2	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-1	DG-2	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-2	DG-2	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
AI-133B	DG-2	AI-133B-2CR	10791	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	DG-2	AI-133B-41C	10791	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	DG-2	AI-133B-94	10791	AI-133B	64	1007	NA	17	AUX/EDG	DG
IA4	DG-2	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	17	AUX/EDG	DG
1A4	DG-2	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	17	AUX/EDG	DG
1A3	DG-2	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	17	AUX/EDG	DG
1A4	DG-2	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	17	AUX/EDG	DG

BOX	ASSEL	RELAY .	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	DG-2	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	17	AUX/EDG	DG
AI-30A(ESF)	DG-2	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30B(ESF)	DG-2	86B/OPLS	16951	AJ-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-133B	DG-2	ACC1/D2	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	DG-2	ACC2/D2	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104E1	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104E1X	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104E2	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104E2X	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-127E1	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-44-SV1X	17396	Al-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-45-SV2X	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-49-TDS1	17396	AI-133B	64	1907	NA	17	AUX/EDG	DG
D2	DG-2	D2-50-TDS2	17396	AI-133B	64	10	NA	17	AUX/EDG	DG
DG-2	DG-2	PC-6126	17396	3E'K-8S'2B	64	1013	NA	17	AUX/EDG	DG
DG-2	DG-2	PC-6138	17396	0E'F-10S'2B	64	1009	NA	17	AUX/EDG	DG
DG-2	DG-2	PC-6139	17396	0ET-4S'2B	64	1009	NA	17	AUX/EDG	DG
AI-133B	DG-2	RS1/D2	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	DG-2	RS2/D2	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	1CRX/D2	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-112	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-178-42BPM1	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-178-42BPM2	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-178-42FP	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-18A-103CX	17397	D2	64	1010	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-103A	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-103B	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-103BX	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-103C	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104N	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104NX	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-105	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-105X	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-112X1	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-PS7X2	17397	D-2	57	1019	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FinE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D2	DG-2	D2-21-PS9X	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-TDSTX	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-46-TDL	17397	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-47-TDSF	17397	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-52-TDSR	17397	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-66-42BPM1	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-67-42BPM2	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-68-42FP	17397	D2	64	1007	NA	17	AUX/EDG	DG
DG-2	DG-2	PCA-3350	17397	4E'X-95'2B	64	1012	NA	17	AUX/EDG	DG
DG-2	DG-2	PS-6020-1	17397	3E'K-10S'2B	64	1013	NA	17	AUX/EDG	DG
DG-2	DG-2	TCA-3346	17397	4E'K-5S'2B	64	1015	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-127E2	17398	D-2	57	1019	NA	17	AUX/EDG	DG
YT-6148	DG-2	YT-6148	17398	2E'K-10S'2B	64	1014	NA	17	AUX/EDG	DG
D2	DG-2	D2-66-42BPM1	17410	AI-133A	63	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-67-42BPM2	17410	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-67-423PM2	17410	D2	64	1007	NA	17	AUX/EDG	DG
1A2	DG-2	27-1/1A2	57240	1A2-04	56	1011	1A2	17	AUX/EDG	DG
1A2	DG-2	27-2/1A2	57240	1A2-04	56	1011	1A2	17	AUX/EDG	DG
AI-25A	DG-2	27-3X/1A4	57240	AI-25A	77	1036	AI-41B-16	17	AUX/EDG	DG
A1-26A	DG-2	27T1/1A2	57240	AI-26A	77	1036	AI-41B-16	17	AUX/EDG	DG
AI-26A	DG-2	27T1X/1A2	57240	AI-26A	77	1036	AI-41B-16	17	AUX/EDG	DG
AI-26A	DG-2	27T1Y/1A2	57240	AI-26A	77	1036	AI-41B-16	17	AUX/EDG	DG
CB-10,11	FCV-1368	94/1368	37570	CB-10 - 11	77	1036	AI-41A-14	7	DHR	FW-AFW
Al-179	FCV-1368	94/1368A	37570	AI-179	57	1013	EE-8F-18	7	DHR	FW-AFW
CB-10,11	FCV-1368	FIC-1368	37570	CB-10 - 11	77	1036	AI-42A-05	7	DHR	FW-AFW
AI-179	FCV-1369	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	FW-AFW
CB-10,11	FCV-1369	94/1369	37570	CB-10 - 11	77	1036	AI-41B-14	7	DHR	FW-AFW
Al-179	PCV-1369	94/1369A	37570	AI-179	57	1013	EE-8G-17	7	DHR	FW-AFW
AI-66B	FCV-1369	FIC-1369	37570	AI-66B	77	1036	AI-42B-08	7	DHR	FW-AFW
AC-DC-2	FCV-269	63X/LIC-219	6153	AC-DC-2	77	1036	AI-42A-07	7	RC	CH
CB-4	FCV-269	94/269	6153	CB-4	77	1036	AI-41A-12	7	RC	CH
Al-30A(ESF)	FCV-269	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	PCV-269	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	СН
AI-30A(ESF)	FCV-269	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	FCV-269	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	FCV-269	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	FCV-269	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30B(ESF)	FCV-269	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	FCV-269	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	PCV-269	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	FCV-269	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	RC	CH
CB-1,2,3	FCV-269	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	RC	CH
AC-DC-I	FCV-269	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	PCV-269	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
CB-1,2,3	FCV-269	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	FCV-269	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	FCV-269	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
CB-1,2,3	FCV-269	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	RC	CH
AC-DC-1	FCV-269	C/PIA-102Y-1	9829	AC-DC-I	77	1036	A1-40C-01	7	RC	CH
AC-DC-1	FCV-269	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	RC	CH
CB-1,2,3	FCV-269	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	FCV-269	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	RC	CH
AC-DC-I	FCV-269	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	FCV-269	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	FCV-269	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	RC	CH
A/PC-742-1	FCV-269	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-2	FCV-269	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-1	FCV-269	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-2	FCV-269	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-1	FCV-269	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-2	FCV-269	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	7	RC	CH
D/PC-742-1	FCV-269	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	RC	CH
D/PC-742-2	FCV-269	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
CB-4 AUX	FCV-269	A/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	RC	CH
CB-4 AUX	FCV-269	B/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	RC	CH
DI	PO-4A-1-M	D1-66-42BPM1	17397	DI	63	1007	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	D1-66-42BPM1	17410	Dí	63	1007	NA	5	AUX/EDG	PO-DG
DI	FO-4A-1-M	D1-66-42BPM1	17410	AI-133A	63	1007	NA .	5	AUX/EDG	FO-DG
FO-2-1	FO-4A-I-M	LC-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4A-I-M	LC-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4A-I-M	LCA-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4A-1-M	LCA-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSH2/X1	17410	D!	63	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSL1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSL2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
DI	PO-4A-2-M	D1-67-42BPM2	17397	DI	63	1007	NA	5	AUX/EDG	FO-DG
DI	FO-4A-2-M	D1-67-42BPM2	17410	AI-133A	63	1007	NA	5	AUX/EDG	FO-DG
DI	FO-4A-2-M	D1-67-42BPM2	17410	DI	63	1007	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LC-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LC-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LCA-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LCA-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSH2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	PO-4A-2-M	LSH2/X1	17410	D2	64	1010	NA	. 5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSL1/X	17410	Di	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSL2/X1	17410	DI	63	1010	NA	5	AUX/EDG	PO-DG
D2	PO-4A-2-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-1-M	D2-66-42BPM1	17397	D2	64	1007	NA	5	AUX/EDG	FO-DG
D2	FO-4B-1-M	D2-66-42BPM1	17410	AI-133A	63	1007	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4B-1-M	LC-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4B-1-M	LC-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4B-1-M	LCA-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4B-1-M	LCA-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
Di	FO-4B-1-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-48-2-M	D2-67-42BPM2	17397	D2	64	1007	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	D2-67-42BPM2	17410	AI-133B	64	1007	NA.	5	AUX/EDG	FC-DG
D2	FO-4B-2-M	D2-67-42BPM2	17410	D2	64	1007	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4B-2-M	LC-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4B-2-M	LC-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4B-2-M	LCA-3419B	17410	6E'K-2S'2B	64	1019	NA.	5	AUX/EDG	FO-DG
FO-2-2	FO-4B-2-M	LCA-3419C	17410	6E'K-2S'2B	64	1019	NA	- 5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH1/X	17410	Di	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D2	FO-4B-2-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSL1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	PO-DG
D2	PO-4B-2-M	LSL2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
A1-439	HCV-1041A	86X-B-A1/CPHS	5976	AI-43B	77	1036	AI-41B-08	7	DHR	MS
CB-4	HCV-1041A	86A/SGLS	9800	CB-4	77	1036	Al-41A-03	7	DHR	MS
CB-4	HCV-1041A	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1041A	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1041A	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041A	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1041A	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4	HCV-1041A	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1041A	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041A	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1041A	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4	HCV-1041A	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1041A	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHK	MS
CB-4 AUX	HCV-1041A	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1041A	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4	HCV-1041A	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS
CB-4	HCV-1041A	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041A	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1041A	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
AI-30A(ESF)	HCV-1041A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30B(ESF)	HCV-1041A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	HCV-1041A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
CB-4 AUX	HCV-1041A	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	A!-40A-05	7	DHR	MS
CB-4 AUX	HCV-1041A	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
A/PC-742-1	HCV-1041A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1041A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1041A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	HCV-1041A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1041A	C/PC-742-!	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1041A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1041A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1041A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
CB-4	HCV-1041A	94/1041	12263	CB-4	77	1036	AI-41B-12	7	DHR	MS
CB-4 AUX	HCV-1041A	86B/SGIS	24061	CB-4 AUX	77	1036	AI-41B-03	7	DER	MS
AI-43B	HCV-1041C	86X-B-A1/CPHS	5976	AI-43B	77	1036	AI-41B-08	7	DHR	MS
CB-4	HCV-1041C	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4	HCV-1041C	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1041C	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1041C	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041C	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1041C	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4	HCV-1041C	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1041C	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041C	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1041C	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4	HCV-1041C	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1041C	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041C	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1041C	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4	HCV-1041C	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS
CB-4	HCV-1041C	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1041C	D/PIC-A4	9800	CB-4 AUX	77	1036	A1-40D-05	7	DHR	MS
CB-4 AUX	HCV-1041C	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
AI-30A(ESF)	HCV-1041C	86A/CPHS	9806	AI-30A(ESF)	77	1636	AI-41A-06	7	DHR	MS
AI-30B(ESF)	HCV-1041C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	HCV-1041C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
CB-4 AUX	HCV-1041C	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1041C	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
A/PC-742-1	HCV-1041C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1041C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1041C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	HCV-1041C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1041C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1041C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1041C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1041C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
MCC-4A1	HCV-1041C	74/HCV-1041C	21357	MCC-4A1-C04	57	1013	MCC-4A1	7	DHR	MS
MCC-4A1	HCV-1041C	Mc/HCV-1041C	21357	MCC-4A1	57	1013	MCC-4A1	7	DHR	MS
MCC-4A1	HCV-1041C	Mo/HCV-1041C	21357	MCC-4A1	57	1013	MCC-4A1	7	DHR	MS
CB-4 AUX	HCV-1041C	86B/SGIS	24061	CB-4 AUX	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1042A	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1042A	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1042A	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1042A	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042A	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042A	A/PIC-B1	9800	CB-4 AUX	77	1036	A1-40A-05	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4	HCV-1042A	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1042A	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042A	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042A	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4	HCV-1042A	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1042A	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042A	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1042A	C/PIC-B3	9800	CB-4 AUX	77	1036	A1-40C-05	7	DHR	MS
CB-4	HCV-1042A	D/PiC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS
CB-4	HCV-1042A	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042A	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1042A	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
AI-30A(ESF)	HCV-1042A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	HCV-1042A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	MS
Al-30B(ESF)	HCV-1042A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
CB-4 AUX	HCV-1042A	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042A	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	A1-408-03	7	DHR	MS
A/PC-742-1	HCV-1042A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1042A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1042A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	HCV-1042A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1042A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1042A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1042A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1042A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
CB-4	HCV-1042A	94/1042	12263	CB-4	77	1036	AI-41B-12	7	DHR	MS
AI-43A	HCV-1042A	86X-A-B1/CPHS	24060	AI-43A	77	1036	NA	7	DHR	MS
CB-4 AUX	HCV-1042A	86AX/SGIS	24062	CB-4 AUX	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1042C	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1042C	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1042C	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1042C	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042C	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042C	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4	HCV-1042C	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1042C	B/P1C-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042C	B/PiC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042C	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4	HCV-1042C	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1042C	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	HCV-1042C	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1042C	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4	HCV-1042C	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS
CB-4	HCV-1042C	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4 AUX	HCV-1042C	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1042C	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
AI-30A(ESF)	HCV-1042C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	HCV-1042C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	MS
AI-30B(ESF)	HCV-1042C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
CB-4 AUX	HCV-1042C	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042C	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
A/PC-742-1	HCV-1042C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1042C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1042C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	HCV-1042C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1042C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	. 7	DHR	MS
C/PC-742-2	HCV-1042C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1042C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1042C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
MCC-4C1	HCV-1042C	74/HCV-1042C	21357	MCC-4C1-F03	57	1013	MCC-4C1	7	DHR	MS
MCC-4C1	HCV-1042C	Mc/HCV-1042C	21357	MCC-4C1	57	1013	MCC-4C1	7	DHR	MS
MCC-4C1	HCV-1042C	Mo/HCV-1042C	21357	MCC-4C1	57	1013	MCC-4C1	. 7	DHR	MS
AI-43A	HCV-1042C	86X-A-B1/CPHS	24060	AI-43A	77	1036	NA	7	DHR	MS
CB-4 AUX	HCV-1042C	86AX/SGIS	24062	CB-4 AUX	77	1036	AI-41A-03	7	DHR	MS
AI-196	HCV-1107A	03/A-RC2A-I-I	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1107A	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1107A	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1107A	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-1-2	16143	AJ-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-2-2	16143 -	AI-199	56	1011	NA	7	DHR	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-66A	HCV-1107A	A/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
A1-66A	HCV-1107A	AI/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
A1-66B	HCV-1107A	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	HCV-1107A	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-179	HCV-1107A	94/1107A-1	21422	Al-179	57	1013	EE-8F-18	7	DHR	FW-AFW
AI-66A	HCV-1107A	94/1107A-2	21422	AI-66A	77	1036	Al-41A-02	7	DHR	FW-AFW
AI-196	HCV-1107B	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1107B	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1107B	03/A-RC2A-2-2	16143	Al-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
A1-66A	HCV-1107B	A/RC-2A/AFWS	16143	Al-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66A	HCV-1107B	A1/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
A1-66B	HCV-1107B	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	HCV-1107B	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-179	HCV-1107B	43X/RC-2A	20260	AI-179	57	1013	EE-8G-17	7	DHR	FW-AFW
A1-66A	HCV-1107B	63/1107B	21422	AI-66A	77	1036	NA .	7	DHR	FW-AFW
AI-66B	HCV-1107B	94/1107B-1	21422	Al-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
PS-1107B	HCV-1107B	PS-1107B	21422	3E'H-5N'3A	81	1041	NA	7	DHR	FW-AFW
Al-196	HCV-1108A	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108A	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108A	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108A	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-2-1	16145	A!-197	56	1011	NA	7	DHR	FW-AFW
A!-197	HCV-1108A	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
Al-198	HCV-1108A	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108A	03/C-RC2B-1-2	16145	AI 198	57	1013	NA	7	DHR	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-198	HCV-1108A	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108A	03/C-RC2B-2-2	16145	AI-198 .	57	1013	NA	7	DHR	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
A1-66A	HCV-1108A	A/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66A	HCV-1108A	A1/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66B	HCV-1108A	B/RC-2B/AFWS	16145	AI-66B	77	1036	Al-41B-04	7	DHR	FW-AFW
AI-66B	HCV-1108A	B1/RC-23/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-179	HCV-1108A	94/1108A-1	21421	AI-179	57	1013	EE-8F-18	7	DHR	FW-AFW
AI-66A	HCV-1108A	94/1108A-2	21421	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-1-2	16145	A1-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-2-2	16145	Ai-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
A1-199	HCV-1108B	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-66A	HCV-1108B	A/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66A	HCV-1108B	A1/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66B	HCV-1108B	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	HCV-1108B	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	F.*/-AFW
AI-66B	HCV-1108B	63/1108B	21421	AI-66B	77	1036	NA	7	DHR	FW-AFW
AI-66B	HCV-1108B	94/1108B-1	21/21	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
PS-1108B	HCV-1108B	PS-1108B	21421	3E'J-1S'5B	81	1041	NA	7	DHR	FW-AFW
AI-179	HCV-1108B	43X/RC-2B	2:125	Ai-179	57	1013	EE-8G-17	7	DHR	FW-AFW
MCC-4C1	HCV-1384	74/HCV-1384	54,53	MCC-4C1-E03	57	1013	MCC-4C1	7	DHR	FW-AFW
MCC-4C1	HCV-1384	Mc/HCV-1384	5455.3	MCC-4C1	57	1013	MCC-4C1	7	DHR	FW-AFW
MCC-4C1	HCV-1384	Mo/HCV-1384	54553	MCC-4C1	57	1013	MCC-4CI	7	DHR	FW-AFW
CB-4	HCV-1385	86A/SGLS	9800	Cr-4	77	1036	AI-41A-03	7	DHR	FW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4	HCV-1385	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	FW
CB-4	HCV-1385	A/P1C-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	FW
CB-4	HCV-1385	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1385	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	D.4R	FW
CB-4 AUX	HCV-1385	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4	HCV-1385	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	FW
CB-4	HCV-1385	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1385	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4 AUX	HCV-1385	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4	HCV-1385	C/P1C-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	FW
CB-4	HCV-1385	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1385	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	FW
CB-4 AUX	HCV-1385	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DMR	FW
CB-4	HCV-1385	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	FW
CB-4	HCV-1385	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1385	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
CB-4 AUX	HCV-1385	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
AI-30A(ESF)	HCV-1385	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW
AI-30A(ESF)	HCV-1385	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW
Al-30B(ESF)	HCV-1385	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW
CB-4 AUX	HCV-1385	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1385	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
A/PC-742-1	HCV-1385	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW
A/PC-742-2	HCV-1385	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW
B/PC-742-1	HCV-1385	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW
B/PC-742-2	HCV-1385	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW
C/PC-742-1	HCV-1385	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW
C/PC-742-2	HCV-1385	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW
D/PC-742-1	HCV-1385	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW
D/PC-742-2	HCV-1385	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW
AI-43A	HCV-1385	86X-A-B1/CPHS	24060	AI-43A	77	1036	NA	7	DHR	FW
CB-4 AUX	HCV-1385	86A/SGIS	24062	CB-4 AUX	77	1036	AI-41A-03	7	DHR	FW
MCC-3A1	HCV-1385	74/HCV-1385	41890	MCC-3A1-E04	57	1013	MCC-3A1	7	DHR	FW
MCC-3A1	HCV-1385	Mc/HCV-1385	41890	MCC-3A1	57	1013	MCC-3A1	7	DHR	FW
MCC-3A1	HCV-1385	Mo/HCV-1385	41890	MCC-3A1	57	1013	MCC-341	7	DHR	FW
AI-43B	HCV-1386	86X-B-A1/CPHS	5976	AI-43B	77	1036		7	DHR	FW
CB-4	HCV-1386	86A/SGLS	9800	CB-4	77	1036	AI-41A-1	7	DHR	FW
CB-4	HCV-1386	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	FW
CB-4	HCV-1386	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	FW
CB-4	HCV-1386	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	FW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	HCV-1386	A/PIC-A1	9800	CB-4 AUX	77	1036	AJ-40A-05	7	DHR	FW
CB-4 AUX	HCV-1386	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4	HCV-1386	B/P1C-902	9800	CB-4	77	1036	B/PO-902	7	DHR	FW
CB-4	HCV-1386	B/PIC-905	9830	CB-4	77	1036	B/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1386	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4 AUX	HCV-1386	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4	HCV-1386	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	FW
CB-4	HCV-1386	C/PIC-905	9800	CB-4	77	1036	C/PO-905	7	DHR	FW
CB-4 AUX	HCV-1386	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	FW
CB-4 AUX	HCV-1386	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	FW
CB-4	HCV-1386	D/PIC-902	9800	CB-4	77	1036	D/PO-902	7	DHR	FW
CB-4	HCV-1386	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1386	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
CB-4 AUX	HCV-1386	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
AI-30A(ESF)	HCV-1386	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW
AI-30B(ESF)	HCV-1386	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW
AI-30B(ESF)	HCV-1386	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	DHR	FW
CB-4 AUX	HCV-1386	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1386	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
A/PC-742-1	HCV-1386	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW
A/PC-742-2	HCV-1386	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW
B/PC-742-1	HCV-1386	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW
B/PC-742-2	HCV-1386	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW
C/PC-742-1	HCV-1386	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW
C/PC-742-2	HCV-1386	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW
D/PC-742-1	HCV-1386	D/PC-742-1	9843	8W'N-16N'6D	59	1012	NA	7	DHR	FW
D/PC-742-2	HCV-1386	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW
CB-4 AUX	HCV-1386	86B/SGIS	24061	CB-4 AUX	77	1036	AI-41B-03	7	DHR	FW
MCC-4C1	HCV-1386	74/HCV-1386	41890	MCC-4C1-E04	57	1013	MCC-4C1	7	DHR	FW
MCC-4CI	HCV-1386	Mc/HCV-1386	41890	MCC-4C1	57	1013	MCC-4C1	7	DHR	FW
MCC-4C1	HCV-1386	Mo/HCV-1386	41890	MCC-4C1	57	1013	MCC-4C1	7	DHR	FW
AI-33A	HCV-1387A	94-1/RM-054A	9799	AI-33A	77	1036	AI-40A-13	7	DHR	FW-BD
AI-33A	HCV-1387A	RM-054A	9799	AI-33A	77	1036	AI-40C-19	7	DHR	FW-BD
AI-30A(ESF)	HCV-1387A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1387A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1387A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AJ-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1387A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1387A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1387A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
CB-1,2,3	HCV-1387A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	FW-BD

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-1387A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387A	B/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-1387A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-408-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	DHR	FW-BD
AC-DC-I	HCV-1387A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-1387A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-1387A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	DHR	FW-BD
A/PC-742-1	HCV-1387A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
B/PC-742-1	HCV-1387A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-1	HCV-1387A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-1	HCV-1387A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW-BD
CB-10,11	HCV-1387A	94/1387A	22745	CB-10,11	77	1036	AI-41A-14	7	DHR	FW-BD
AI-107	HCV-1387A	94/2510	22745	AI-107	60	1007	AI-41A-01	7	DHR	FW-BD
FIA-2510	HCV-1387A	FIA-2510	22745	19WP-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
AI-43A	HCV-1387A	742A-6	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-43A	HCV-1387A	86/A1-43A	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-33A	HCV-1387B	94-1/RM-054B	9799	AI-33A	77	1036	AI-40B-15	7	DHR	FW-BD
AI-33A	HCV-1387B	RM-054B	9799	AI-33A	77	1036	AI-40D-09	7	DHR	FW-BD
AI-30B(ESF)	HCV-1387B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-1387B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-1387B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-1387B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-1387B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-3GB(ESF)	HCV-1387B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-1	HCV-1387B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-1387B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	FW-BD
AC-DC-1	HCV-1387B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-1387B	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-I	HCV-1387B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	DHR	FW-BD
A/PC-742-2	HCV-1387B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
B/PC-742-2	HCV-1387B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-2	HCV-1387B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-2	HCV-1387B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
CB-10,11	HCV-1387B	94/1387B	22745	CB-10,11	77	1036	AI-41B-14	7	DHR	FW-BD
AI-107	HCV-1387B	94/2511	22745	AI-107	60	1007	AI-41B-01	7	DHR	FW-BD

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
FIA-2511	HCV-1387B	FIA-2511	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
AI-43B	HCV-1387B	742B-6	41567	AI-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-43B	HCV-1387B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-33A	HCV-1388A	94-1/RM-054A	9799	AI-33A	77	1036	AI-40A-13	7	DHR	FW-BD
AI-33A	HCV-1388A	RM-054A	9799	AI-33A	77	1036	AI-40C-19	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86A/CPHS	9806	AI-3CA(ESF)	77	1036	AJ-41A-06	7	DHE	FW-BD
AI-30A(ESF)	HCV-1388A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
CB-1,2,3	HCV-1388A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-1	HCV-1388A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-1388A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	FW-BD
AC-DC-I	HCV-1388A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-1388A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	ICV-1388A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
A/PC-742-1	HCV-1388A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
B/PC-742-1	HCV-1388A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-1	HCV-'388A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
CPC-742-1	HCV-1388A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW-BD
Co-10,11	HCV-1388A	94/1388A	22745	CB-10,11	77	1036	Al-41A-14	7	DHR	FW-BD
AI-107	HCV-1388A	94/2510	22745	Ai-107	60	1007	AI-41A-01	7	DHR	FW-BD
FIA-2510	HCV-1388A	FIA-2510	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
A1-43A	HCV-1388A	742A-6	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-43A	HCV-1388A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-33A	HCV-1388B	94-1/RM-054B	99	A1-33A	77	1036	AI-40B-15	7	DHR	FW-BD
AI-33A	HCV-1388B	RM-054B	99	AI-33A	77	1036	AI-40D-09	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
Al-30B(ESF)	HCV-1388B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86A I/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-1	HCV-1388B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	FW-BD

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-I	HCV-1388B	B/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	FW-BD
AC-DC-1	HCV-1388B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	D/P1A-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-I	HCV-1388B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-1388B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	DHR	FW-BD
A/PC-742-2	HCV-1388B	A/PC-742-2	9841	10WP-14N'6D	59	1012	NA	7	DHR	FW-BD
B/PC-742-2	HCV-1388B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-2	HCV-1388B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-2	HCV-1388B	D/PC-742-2	9841	6W"P-14N'6D	59	1012	NA	7	DHR	FW-BD
CB-10,11	HCV-1388B	94/1388B	22745	CB-10,11	77	1036	AI-41B-14	7	DHR	FW-BD
AI-107	HCV-1388B	94/2511	22745	AI-107	60	1007	AI-41B-01	7	DHR	FW-BD
FIA-2511	HCV-1388B	FIA-2511	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
AI-43B	HCV-1388B	742B-6	41567	A!-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-43B	HCV-1388B	86/AI-43B	41567	AI-43B	77	1036	Al-41B-08	7	DHR	FW-BD
AI-4C	HCV-150	74/150	41445	AI-4C	77	1036	NA	7	PC	RC
MCC-3B1	HCV-150	Mc/HCV-150	41445	MCC-3B1	57	1013	MCC-3B1	7	PC	RC
MCC-3B1	HCV-150	Mo/HCV-150	41445	MCC-3B1	57	1013	MCC-3B1	7	PC	RC
GM-1	HCV-151	74/151	41445	GM-1	77	1036	NA	7	PC	RC
MCC-4A1	HCV-151	Mc/HCV-151	41445	MCC-4A1	57	1013	MCC-4A1	7	PC	RC
MCC-4A1	HCV-151	Mo/HCV-151	41445	MCC-4A1	57	1013	MCC-4A1	7	PC	RC
AC-DC-2	HCV-238	94/238	24368	AC-DC-2	77	1036	AI-41A-12	7	INV,R,P	CH
AI-185	HCV-239	43D/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	CH
AC-DC-2	HCV-239	94/239	24369	AC-DC-2	77	1036	AI-41B-12	7	INV,R,P	CH
AI-185	HCV-240	3A1/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
AI-185	HCV-240	43A/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
AI-185	HCV-240	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
AC-DC-2	HCV-240	94/240	43398	AC-DC-2	77	1036	AI-41A-12 '	7	PC,R,P	CH
CB-1,2,3	HCV-247	94/247	37607	CB-1 - 2 - 3	77	1036	AI-41B-12	7	INV,R,P	CH
HCV-247	HCV-247	SCB-247	37607	9W'BB-33N'H	CONT	1004	NA	7	INV,R,P	CH
AI-185	HCV-248	3A1/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	CH
AI-185	HCV-248	43A/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	CH
AI-185	HCV-248	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	CH
CB-1,2,3	HCV-248	94/248	37607	CB-1 - 2 - 3	77	1036	AI-41A-12	7	INV,R,P	CH
HCV-248	HCV-248	SCB-248	37607	18W'CC-9N'II	CONT	1002	NA	7	INV,R,P	CH
AI-185	HCV-249	3A2/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
AI-185	HCV-249	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
CB-1,2,3	HCV-249	94/249	37607	CB-1 - 2 - 3	77	1036	AI-41B-12	7	PC,R,P	CH
A!-30A(ESF)	HCV-2504A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2504A	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	INV	SL-PRI

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	HCV-2504A	86A/PPLS	9806	A1-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2504A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2504A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2504A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AJ-30B(ESF)	HCV-2504A	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
AI-30B(ESF)	HCV-2504A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
CB-1,2,3	HCV-2504A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2504A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2504A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
CB-1,2,3	HCV-2504A	B/PIA-102Y	9829	CB-1 - 2 - J	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-I	HCV-2504A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-I	HCV-2504A	B/PIA-102Y 2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
CB-1,2,3	HCV-2504A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV	SL-PRI
AC-DC-1	HCV-2504A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	INV	SL-PRI
AC-DC-I	HCV-2504A	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	INV	SL-PRI
CB-1,2,3	HCV-2504A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2504A	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2504A	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2504A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-1	HCV-2504A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV	SL-PRI
A/PC-742-1	HCV-2504A	A/PC-742-1	9841	12W'F-: 4N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-2	HCV-2504A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-1	HCV-2504A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-2	HCV-2504A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-1	HCV-2504A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-2	HCV-2504A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-1	HCV-2504A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-2	HCV-2504A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
AI-43A	HCV-2504A	62A/CIAS	40247	A1-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AI-43A	HCV-2504A	94A/CIAS	40247	AI-43A	77	1036	NA	7	INV	SL-PRI
AI-43A	HCV-2504A	742A-9	41564	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AI-107	HCV-2504A	94/2504A	41692	AI-107	60	1007	NA	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30B(ESF)	HCV-2506A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
AI-30B(ESF)	HCV-2506A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PPI

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-2506A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2506A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2506A	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	7	INV	SL-PRI
CB-1,2,3	HCV-2506A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	7	INV	SL-PRI
CB-1,2,3	HCV-2506A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	INV	SL-PRI
CB-1,2,3	HCV-2506A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-I	HCV-2506A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-I	HCV-2506A	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2506A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV	SL-PRI
A/PC-742-1	HCV-2506A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-2	HCV-2506A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-1	HCV-2506A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA.	7	INV	SL-PRI
B/PC-742-2	HCV-2506A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-1	HCV-2506A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-2	HCV-2506A	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-1	HCV-2506A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-2	HCV-2506A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
AI-43A	HCV-2506A	742A-9	41564	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AI-107	HCV-2506A	94/2506A	41692	AI-107	60	1007	NA	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41 A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30B(ESF)	HCV-2507A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
AI-30B(ESF)	HCV-2507A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2507A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2507A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-I	HCV-2507A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV	SL-PRI
AC-DC-I	HCV-2507A	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	INV	SL-PRI

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AL-DC-I	HCV-2507A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-2507A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV	SL-PRI
A/PC-742-1	HCV-2507A	A/PC-742-1	9841	12Ve P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-2	HCV-2507A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-1	HCV-2507A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-2	HCV-2507A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA.	7	INV	SL-PP:
C/PC-742-1	HCV-2507A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-2	HCV-2507A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-1	HCV-2507A	D/PC-742-1	9841	8W"N-16N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-2	HCV-2507A	D/rC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
AI-43A	HCV-2507A	742A-9	41564	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
A 107	HCV-2507A	94/2507A	41692	AI-107	60	1007	NA	7	INV	SL-PRI
AI-30A(ESF)	HCV-257	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-257	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-257	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-257	36B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	?	RC	CH
AI-30A(ESF)	HCV-257	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-257	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
Al-30B(ESF)	HCV-257	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	HC V-257	86B/PPLS	9816	AI-30B(ESF)	77	1036	Aï-41B-06	7	RC	CH
AI-30B(ESF)	HCV-257	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
. J-30B(ESF)	HCV-257	86A1X/SIAS	9817	AI-30B(ESF)	77	1035	AI-41A-13	7	RC	CH
CB-1,2,3	HCV-257	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-257	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-257	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
CB-1,2,3	HCV-257	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	RC	CH
AC-DC-I	HCV-257	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-257	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	СН
CB-1,2,3	HCV-257	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	RC	CH
AC-DC-1	HCV-257	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	RC	CH
AC-DC-1	HCV-257	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	RC	CH
CB-1,2,3	HCV-257	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	HCV-257	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	СН
AC-DC-I	HCV-25?	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	HCV-257	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-257	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	RC	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A/PC-742-1	HCV-257	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-2	HCV-257	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-1	HCV-257	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-2	HCV-257	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-1	HCV-257	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-2	HCV-257	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	RC	CH
D/PC-742-1	HCV-257	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	RC	CH
D/PC-742-2	HCV-257	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
CB-4	HCV-257	94/257	1_286	CB-4	77	1036	AI-41B-12	7	RC	CH
CB-4 AUX	HCV-257	A/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	RC	CH
CB-4 AUX	HCV-257	B/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	RC	CH
AI-30A(ESF)	HCV-258	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	HCV-258	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	HCV-258	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV.R.P	CH
AI-30A(ESF)	HCV-258	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	СН
AI-30A(ESF)	HCV-258	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	HCV-258	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV.R.P	CH
AI-30B(ESF)	HCV-258	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	INV AP	CH
AI-30B(ESF)	HCV-258	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	HCV-258	86BX/SIAS	9816	AI-30B(ESF)	77	1036	.≯.1-41B-06	7	INV,R,P	CH
Al-30B(ESF)	HCV-258	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
Al-30B(ESF)	HCV-25°	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	IN V,R,P	CH
AI-30B(ESF)	HCV-258	86A1X/SIAS	981?	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
CB-1,2,3	HCV-258	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	HCV-258	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	H CV-258	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
CB-1,2,3	HCV-258	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	HCV-258	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	HCV-258	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
CB-1,2,3	HCV-258	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV,R,P	CH
AC-DC-1	HCV-258	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	7	INV,R,P	CH
AC-DC-1	HCV-258	C/PIA-102Y-2	>220	AC-DC-1	77	1036	AI-40C-01	7	INV,R,P	CH
CB-1,2,3	HCV-258	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-I	HCV-258	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	HCV-258	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	HCV-258	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	HCV-258	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV,R,P	CH
A/PC-742-1	HCV-258	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
A/PC-742-2	HCV-258	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-1	HCV-258	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	. 7	INV,R,P	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-2	HCV-2:5	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV.R.P	CH
C/PC-742-1	HCV-258	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-2	HCV-258	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	7	INV.R.P	CH
D/PC-742-1	HCV-258	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV,R,P	CH
D/PC-742-2	HCV-258	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV.R.P	CH
MCC-4A2	HCV-258	74/HCV-258	41231	MCC-4A2-E02	26	1007	MCC-4A2	7	INV,R,P	CH
MCC-4A2	HCV-258	Mc/HCV-258	41231	MCC-4A2	26	1007	MCC-4A2	7	INV.R.P	CH
MCC-4A2	HCV-258	Mo/HCV-258	41231	MCC-4A2	26	1007	MCC-4A2	7	INV.R.P	СН
CB-4 AUX	'CV-258	A/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	INV.R.P	CH
CB-4 AUX	iCV-252	B/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	INV,R,P	CH
AI-30A(ESF)	HCV-264	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-264	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	СН
AI-30A(ESF)	HCV-264	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-264	86B1/CPHS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-264	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
Al-30A(ESF)	HCV-264	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
Al-30B(ESF)	HCV-264	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
A1-30B(ESF)	HCV-264	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	HCV-264	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	СН
AI-30B(ESF)	HCV-264	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	RC	CH
CB-1,2,3	HCV-264	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	RC	CH
AC-DC-I	HCV-264	A/PIA-162Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-I	HCV-264	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
CB-1,2,3	HCV-264	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	RC	CH
AC-DC-I	HCV-264	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-264	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	7	RC	CH
CB-1,2,3	HCV-264	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	RC	СН
AC-DC-1	HCV-264	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	RC	CH
AC-DC-1	HCV-264	C/PiA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	RC	CH
CB-1,2,3	HC v-264	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	HCV-264	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	HCV-264	D/PIA-102Y-2	9829	AC-DC-1	- 77	1036	AI-40D-01	7	RC	CH
AC-DC-I	HCV-264	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-264	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	RC	CH
A/PC-742-1	HCV-264	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-2	HCV-264	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-1	HCV-264	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-2	HCV-264	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-1	HCV-264	C/PC-742-1	9841	6W'P-34N'6D	59	1012	NA	7	RC	CH
C/PC-742-2	HCV-264	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	-RC	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D/PC-742-1	HCV-264	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	RC	CH
D/PC-742-2	HCV-264	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
CB-4	HCV-264	94/264	12286	CB-4	77	1036	AI-41A-12	7	RC	CH
CB-4 AUX	HCV-264	A/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	RC	CH
CB-4 AUX	HC 7-264	B/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	RC	CH
AI-30A(ESF)	HCV-265	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV.R.P	CH
AI-30A(ESF)	HCV-265	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	HCV-265	86AX/SIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	INV,R,P	CH
AI-30A(ESF)	HCV-265	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	INV,R,P	CH
Al-30A(ESF)	HCV-265	86B1/PPLS	9867	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	HCV-265	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	СН
AI-30B(ESF)	HCV-265	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	iNV,R,P	CH
AI-30B(ESF)	HCV-265	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	HCV-265	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	HCV-265	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	INV,R,P	CH
AI-30B(ESF)	HCV-265	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	HCV-265	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
CB-1,2,3	HCV-265	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	HCV-265	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	HCV-265	A/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40A-01	7	INV,R,P	CH
CB-1,2,3	HCV-265	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	HCV-265	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	HCV-265	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV.R.P	CH
CB-1,2,3	HCV-265	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV,R,P	CH
AC-DC-1	HCV-265	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	INV.R.P	CH
AC-DC-1	HCV-265	C/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40C-01	7	INV.R.P	CH
CB-1,2,3	HCV-265	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	HCV-265	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	HCV-265	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	1CV-265	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV.R.P	CH
AC-DC-1	HCV-265	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV,R,P	СН
A/PC-742-1	HCV-265	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV.R.P	CH
A/PC-742-2	HCV-265	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV.R.P	CH
B/PC-742-1	HCV-265	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-2	HCV-265	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV.R.P	CH
C/PC-742-1	HCV-265	C/PC-742-I	9841	6W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-2	HCV-265	C/PC-742-2	9841	4W'P-14N'6D	59	1012	N.A.	7	INV.R.P	CH
D/PC-742-1	HCV-265	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV,R,P	СН
D/PC-742-2	HCV-265	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV.R.P	CH
MCC-3C2	HCV-265	74/HCV-265	41231	MCC-3C2-C01	26	1007	MCC-3C2	7	INV,R,P	СН

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
MCC-3C2	HCV-265	Mc/HCV-265	41231	MCC-3C2	26	1007	MCC-3C2	7	INV,R,P	CH
MCC-3C2	HCV-265	Mo/HCV-265	41231	MCC-3C2	26	1007	MCC-3C2	7	INV,R,P	CH
CB-4 AUX	HCV-265	A/94-1/SIAS	43409	CB-4 AUX	77	1036	Al-41A-03	7	INV,R,P	CH
CB-4 AUX	HCV-265	B/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	INV,R,P	CH
AC-12A CTRL	HCV-2805A	M/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
AC-12A CTRL	HCV-2805A	m/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
MCC-3B3	HCV-2805A	M/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
MCC-3B3	HCV-2805A	M/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
AC-12A CTRL	HCV-2805A	TR/AC-12A	43125	AC-12A CTRL PANEL	INTK	904	MCC-3B3	7	AUX/RW	AC-RW
AC-12B CTRL	HCV-2805B	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
AC-12B CTRL	HCV-2805B	M/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	7	AUX/RW	AC-R.W
MCC-4C4	HCV-2805B	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
MCC-4C4	HCV-2805B	m/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
AC-12B CTRL	HCV-2805B	TR/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
AI-30A(ESF)	HCV-2861	94/2861	42521	Al-30A(ESF)	77	1036	AI-41A-06	7	AUX/RW	AC-RW
AC-DC-2	HCV-2874A	94/2874A	12597	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2874B	94/2874B	12597	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2875A	94/2875A	12597	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2875B	94/2875B	12597	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2876A	94/2876A	12597	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2876B	94/2576B	12597	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2877A	94/2877A	41672	AC-DC-2	77	1036	AI-41A-12	7	"IN MIN	AC-RW
AC-DC-2	HCV-2877B	94/2877B	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2878A	94/2878A	41672	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2878B	94/2878B	41672	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2879A	94/2879A	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2879B	94/2879B	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2880A	94/2880A	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV 2880B	94/2880B	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2881A	94/2881A	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2881B	94/2881B	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2882A	94/2882A	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2882B	94/2882B	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2883A	94/2883A	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2883B	94/2883B	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AI-33A	HCV-2898A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898A	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898A	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898A	RM-051	9799	A1-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-33B	HCV-2898A	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2898A	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2893A	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-4iA-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-2898A	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-2898A	86B1/CPHS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86B1/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898A	86B1/VIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-54B	HCV-2898A	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2898A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW/	AC-CCW
AC-DC-1	HCV-2898A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2898A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2898A	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2898A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2898A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2898A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2898A	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2898A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-2898A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-2898A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-2898A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-2898A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A1-224A	HCV-2898A	42/46A	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94/LS2898	21846	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
LS-2898	HCV-2898A	LS-2898	21846	13W'J1-5N'7A	72	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	42X/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	5-1/VA46A	21847	A1-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898A	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	5/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94-1/6286A-6287A	21847	AI-106A	77	1036	NA.	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898A	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	F!LE	LOCATION	RM	FLEV	POWER	CLASS	SSPATH	SYSTEM
AI-106A	HCV-2898A	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106B	HCV-2898A	94-1/6288B	21847	AI-106B	77	1536	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94-1/VA46A	21847	A1-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898A	94-2/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94-2/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94/VA46A	21847	Al-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94AXI/VIAS	21847	AJ-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94AX2/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-34	HCV-2898A	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-35	HCV-2898A	YIS-6287B	21847	AI-35	77	1036	A1-42B-11	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2898A	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286B	HCV-2898A	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6288A	HCV-2898A	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	HCV-2898A	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
AI-54B	HCV-2898A	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	HCV-2898A	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-44	HCV-2898A	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2898A	94A.PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/OCW	ACCIW
Al-106A	HCV-2898A	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898A	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898B	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
A1-33A	HCV-2898B	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898B	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2898B	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2898B	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2898B	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86B1/CIAS	9807	A1-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86B1/VIAS	9807	AI-30A(ESF)	- 77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-54B	HCV-2898B	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	HCV-2898B	42/46A	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
A1-106A	HCV-2898B	94/LS2898	21846	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
LS-2898	HCV-2898B	LS-2898	21846	13W'J1-5N'7A	72	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	42X/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	5/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106A	HCV-2898B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	94-2/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94-2/VA46A	21847	A1-106A	77	1036	NA	7	AUX/CCW	AC-CCW
Al-106A	HCV-2898B	94/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106A	HCV-2898B	94AXI/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
A1-34	HCV-2898B	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
A1-35	HCV-2898B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2898B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286B	HCV-2898B	Y1T-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6288A	HCV-2898B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	HCV-2898B	YIT-6288B	21347	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
AI-54B	HCV-2898B	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	HCV-2898E	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-44	HCV-2898B	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2898B	94A/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899A	94-1/RM-050/061	9799	Al-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899A	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-53A	HCV-2899A	RM-050	9799	Al-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899A	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899A	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
A1-33B	HCV-2899A	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899A	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86B/CIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86B/CRHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86B/PPLS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-2899A	86B/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-2899A	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-2899A	86A1/CRHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899A	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-2899∧	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CLW	AC-CCW
AI-30B(ESF)	HCV-2899A	86A1/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-2899A	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-54B	HCV-2899A	94-25/FD	9828	A1-54B	77	1036	NA	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-2899A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2899A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2899A	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2899A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-2899A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-2899A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-2899A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-2899A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-2899A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AI-224A	HCV-2899A	42/46B	21846	A1-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94/LS2899	21846	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
LS-2899	HCV-2899A	LS-2899	21846	13W'J1-6N'6D	72	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-224B	HCV-2899A	42X/VA46B	21847	AI-224B	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	5-1/VA46A	21847	A1-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	5/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	94-1/6286A-6287A	21847	Al-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	94-2/6288A	21847	AI-106A	. 77	1036	NA	7	AUX/CCW	AC-CCW
A1-106B	HCV-2899A	94-2/VA46B	21847	Al-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94BX1/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94BX2/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-34	HCV-2899A	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
A1-35	HCV-2899A	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2899A	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286B	HCV-2899A	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6288A	HCV-2899A	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	HCV-2899A	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-54B	HCV-2899A	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-56	HCV-2899A	POX-5	39723	AI-56	77	1036	NA	7	AUXICCW	AC-CCW
AI-44	HCV-2899A	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899A	94B/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899A	94B/PE-5A	41671	AC-DC-2	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2839B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899B	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899B	RM-050	9799	A1-33A	77	1036	A1-40C-19	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899B	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899B	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899B	RM-061	9799	AI-33B	77	1036	A!-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899B	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86A1/VIAS	9817	AI-303(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-54B	HCV-2899B	94-25/FD	9828	AI-54B	77	1036	NA.	7	AUX/CCW	AC-CCW
AI-224A	HCV-2899B	42/46B	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
. В	HCV-2899B	94/LS2899	21846	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
L .899	HCV-2899B	LS-2899	21846	13W'J1-6N'6D	72	1036	AI-41B-12	7	AUX/CCW	AC-CCW
A1-106B	HCV-2899B	42X/VA46B	21847	AI-224B	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899B	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	5/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW -	AC-CCW
AI-106A	HCV-2899B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA ·	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899B	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
Al-106A	HCV-2899B	94-2/6288A	21847	AI-106A	77	1036	NA.	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94-2/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94BX1/ViAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-34	HCV-2899B	YIS-6287A	21847	A!-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-35		****		41.25	22	1036	41 400 11	-		
	HCV-2899B	YIS-6287B	21847	AI-35	77	1030	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2899B HCV-2899B	YIS-6287B YIT-6286A	21847	4W'E-0N'6D	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
YIT-6288A	HCV-2899B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC~~
YIT-6288B	HCV-2899B	YIT-6288B	21847	12W'D-0N'6D ·	77	1040	NA	7	AUX/CCW	A
AI-54B	HCV-2899B	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC n
AI-56	HCV-2899B	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-44	HCV-2899B	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899B	94B/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899B	94B/PE-5A	41671	AC-DC-2	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106A	HCV-2899B	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	33X/292	43437	Al-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-40GA	86A/PPLS	9806	AI-30A(ESF)	77	1036	A: 41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-400A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86B1/CPHS	9807	AI-30A(ESF)	27	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-400A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	A1-41B-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-400A	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-400A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-400A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-2	HCV-400A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUY/CCW	AC-CCW
D/PC-742-1	HCV-400A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	. 7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-400A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400A	62/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400A	94-1/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400A	94-2/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-400A	FC-416A	41269	GM-2	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-400A	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400A	86/A1-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400A	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400A	86/A1-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86A/CIAS	9806	AI-30A(ESF)	77	1936	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-400B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-400B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86B1/PPIS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-400B	8oB/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86A1/CIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86A I/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AJ-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	C/PIA-102Y-2	9829	AC-DC-:	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-400B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-2	HCV-400B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/FC-742-2	HCV-400B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/OCW	AC-CCW
D/PC-742-2	HCV-400B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400B	94-3/400	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-400B	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400B	86/A1-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400B	7428-4	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400B	86/AI-43B	41567	A1-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/OCW	AC-CCW
AI-30A(ESF)	HCV-400C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-400C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	A1-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86A1/PPLS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	A/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-400C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-400C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-1	HCV-400C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-400C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-400C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400C	62/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400C	94-1/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400C	94-2/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-400C	FC-416A	41269	GM-2	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-400C	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400C	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-400C	86/AI-43B	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86A/CIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86B/CIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400D	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-460D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AJ-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-1	HCV-400D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-400D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-400D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-400D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400D	94-3/400	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-400D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400D	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400D	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-401A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-401A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	A/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	. 7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-C1	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401 A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-401A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-401A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-401A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-2	HCV-401A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401A	C/PC-742-1	9841	6W"P-14N"6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-401A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401A	62/401	41269	AC-DC-2	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401A	94-1/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401A	94-2/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-401A	PC-417A	41269	GM-2	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-401A	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401A	86/A1-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401A	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401A	86/A1-43H	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-401B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86A/CPHS	9806	Al-30A(ESF)	?7	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86A1/CIAS	9817	AI 30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86A1/PPLS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1.2,3	HCV-401B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	. 7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AL JCW	AC-CCW
AC-DC-1	HCV-401B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-401B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A/PC-742-2	HCV-401B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-401B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-401B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401B	C/PC-742-2	9841	4W'P-14N'5D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-401B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401B	94-3/401	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-401B	742A-4	41564	Al-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401B	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX*CCW	AC-CCW
A1-43B	HCV-401B	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401B	86/AI-43B	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86A/CIAS	9806	Al-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86B/CIAS	9816	AI-30B(ESF)	. 77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86A1/CIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401C	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-401C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-401C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-1	HCV-401C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-401C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-401C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401C	62/401	41269	AC-DC-2	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401C	94-1/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401C	94-2/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-401C	FC-417A	41269	GM-2	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-401C	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401C	742B-3	41567	A1-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-401C	86/AI-43B	41567	Al-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-401D	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-401D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86A1/CPHS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401D	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401D	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401D	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW

APC-742-1	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
BPC-742-1	A/PC-742-1	HCV-401D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
BPC-742-2	A/PC-742-2	HCV-401D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
CPC-242-1 HCV-401D CPC-242-1 9841 6WP-14NVD 59 1012 NA 7 AUXCCW AC-CCW CPC-242-2 9841 4WP-14NVD 59 1012 NA 7 AUXCCW AC-CCW	B/PC-742-1	HCV-401D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
DPC-742-12 HCV-40ID	B/PC-742-2	HCV-401D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
DPC-742-1	C/PC-742-1	HCV-401D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
DPC-742-2	C/PC-742-2	HCV-401D	CPC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
ACDC-2 HCV-401D 94-3/401 41271 AC-DC-2 77 1036 A1-41B-12 7 AUXCCW AC-CCW A1-3AA HCV-401D 742A-4 41564 A1-3AA 77 1036 A1-41A-08 7 AUXCCW AC-CCW A1-3AA HCV-401D 86/A1-43A 41564 A1-43A 77 1036 A1-41A-08 7 AUXCCW AC-CCW A1-43B HCV-401D 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-43B HCV-401D 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-30,(ESF) HCV-401D 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A/CHS 9806 A1-30,(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A/CHS 9806 A1-30,(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A/CHS 9806 A1-30,(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A/CHS 9807 A1-30,(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9807 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9807 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9807 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9807 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9816 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9816 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9816 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9816 A1-30,(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86B1/CHS 9816 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A1/CTAS 9817 A1-30,(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A1/CTAS 9817 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A1/CTAS 9817 A1-30,(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A1/CTAS 9817 A1-30,(ESF) 77 1036 A1-41A-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A1/CTAS 9817 A1-30,(ESF) 77 1036 A1-41A-13 7 AUXCCW AC-CCW A1-30,(ESF) HCV-402A 86A1/CTAS 9817 A1-30,(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30,(ESF) 77 1036 A1-40,0-10 7 AUXCCW AC-CCW AC-CCW A1-30,(ESF)	D/PC-742-1	HCV-401D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
Al-13A	D/PC-742-2	HCV-401D	D/PC-742-2	9841	6W"P-14N"6D	59	1012	NA	7	AUX/CCW	AC-CCW
Al-33A HCV-401D 86/Al-43A 41564 Al-43A 77 1036 Al-41A-08 7 AUXCCW AC-CCW Al-43B HCV-401D 742B-4 41567 Al-43B 77 1036 Al-41B-08 7 AUXCCW AC-CCW Al-43B HCV-401D 86/Al-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 41567 Al-33B 77 1036 Al-41B-08 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9806 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9816 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9816 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9816 Al-30A(ESF) 77 1036 Al-41B-16 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86/Al-43B 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9817 Al-30B(ESF) 77 1036 Al-41B-33 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9817 Al-30B(ESF) 77 1036 Al-41B-33 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9817 Al-30B(ESF) 77 1036 Al-41B-33 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9817 Al-30B(ESF) 77 1036 Al-41B-33 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9817 Al-30B(ESF) 77 1036 Al-40A-01 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86/Al-43B 9817 Al-30B(ESF) 77 1036 Al-40A-01 7 AUXCCW AC-CCW AC-CC	AC-DC-2	HCV-401D	94-3/401	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
A1-43B HCV-401D 742B-4 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-43B HCV-401D 86A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86A/CIAS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86A/CPHS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86A/CPHS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86BI/CIAS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86BI/CIAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86BI/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86BI/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-402A 86BI/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86BI/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86BI/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86BI/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86BI/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86AI/CPHS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86AI/CPHS 9817 A1-30B(ESF) 77 1036 A1-41A-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86AI/CPHS 9817 A1-30B(ESF) 77 1036 A1-41A-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86AI/CPHS 9817 A1-30B(ESF) 77 1036 A1-41A-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-402A 86AI/CPHS 9817 A1-30B(ESF) 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A APIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A APIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A APIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A BPIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A BPIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A BPIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 AUXCCW AC-CCW AC-DC-1 HCV-402A BPIA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-	AI-43A	HCV-401D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
Al-43B HCV-401D 86/Al-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86A/CHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86A/CHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402A 86B/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86B/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86B/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86B/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86A/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86A/CHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86A/CHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUXCCW AC-CCW Al-30B(ESF) HCV-402A 86A/CHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUXCCW AC-CCW AL-30B(ESF) HCV-402A 86A/CHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUXCCW AC-CCW AC-C	AI-43A	HCV-401D	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
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Al-30B(ESF) HCV-402A 86A1/PPLS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW CB-1,2,3 HCV-402A A/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40D-01 7 AUX/CCW AC-DC-1 AC	AI-30B(ESF)	HCV-402A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3 HCV-402A A/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A P	AI-30B(E3F)	HCV-402A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A A/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-	AI-30B(ESF)	HCV-402A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-402A B/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-402A C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1	CB-1,2,3	HCV-402A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3 HCV-402A B/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-	AC-DC-1	HCV-402A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-402A C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	CB-1,2,3	HCV-402A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3 HCV-402A C/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPIS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPIS/BLOCK-B 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPIS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 CB-1 - 2 - 3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-402A D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	CB-1,2,3	HCV-402A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1.2.3 HCV-402A D/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A D/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-I	HCV-402A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A D/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40D-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	CB-1,2,3	HCV-402A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A PPLS/BLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7		
AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-402A PPLS/BLOCK-B 9831 AC-DC-1 77 1036 NA 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
	AC-DC-1	HCV-402A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
	A/PC-742-1	HCV-402A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A/PC-742-2	HCV-402A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-402A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-402A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402A	62/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402A	94-1/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402A	94-2/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-402A	PC-418A	41269	GM-2	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-402A	742A-3	41564	AI-43A	77	1036	Al-41A-08	7	AUX/CCW	AC-CCW
Al-43A	HCV-402A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-402A	742B-3	41567	A1-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402A	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/OCW	AC-CCW
AI-30A(ESF)	HCV-402B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-402B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-4)B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	D/F1A-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-402B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-402B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-402B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-402B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402B	94-3/402	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-402B	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402B	86/AI-43A	41564	A1-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-402B	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402B	86/A1-43B	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86A/CPHS	9806	Ai-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-402C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-402C	86B1/CPHS	9807	AI-30A(ESF)	?7	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-402C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402C	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402C	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AJ-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	Al-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A/PC-742-1	HCV-402C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-402C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-402C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402C	62/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402C	94-1/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402C	94-2/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-402C	FC-418A	41269	GM-2	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-402C	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-402C	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402C	86/A1-43B	41567	A1-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV 402D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-402D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-402D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Ai-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-402D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13 ·	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A!-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/OCW	AC-CCW
AC-DC-1	HCV-402D	A/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402D	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402D	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-402D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	Ai-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-402D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-402D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	. 7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-402D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402D	94-3/402	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-402D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402D	86/AI-43A	41564	A1-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402D	742B-4	41567	A1-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86A/CPHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A 06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-403A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-403A	86B/CPHS	9816	A1-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Al-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-403A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW

вох	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-403A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-403A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-403A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-403A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-403A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	.ic.V-403A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-403A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403A	62/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403A	94-1/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403A	94-2/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2	HCV-403A	PC-419A	41269	GM-2	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AI-43A	HCV-403A	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403A	86'AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403A	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403A	86/A1-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/OCW	AC-CCW
Al-30A(ESF)	HCV-403B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30E(ESF)	HCV-403B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-10B(ESF)	HCV-403B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1.2,3	HCV-403B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCA'	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-403B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	P!'LS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-403B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-403B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-403B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-403B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-403B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-403B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-403B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403B	94-3/403	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-403B	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403B	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403B	742B-4	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-403C	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-403C	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-403C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-403C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	Ai-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	B/PIA-!02Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A!-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-40°C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	5	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-403C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW

ACDC-1 HCV-403C PFLSBLOCK-A 9831 AC-DC-1 77 1036 AI-40A-01 7 ALIXCCW AC-CCW APC-742-1 HCV-403C AIPC-742-1 9841 12WP-14N50D 99 1012 NA 7 ALIXCCW AC-CCW APC-742-1 HCV-403C AIPC-742-1 9841 12WP-14N50D 99 1012 NA 7 ALIXCCW AC-CCW APC-742-1 HCV-403C BIPC-742-2 9841 10WP-14N50D 99 1012 NA 7 ALIXCCW AC-CCW BIPC-742-1 HCV-403C BIPC-742-1 9841 1WWP-14N50D 99 1012 NA 7 ALIXCCW AC-CCW CPC-742-1 HCV-403C CPC-742-1 9841 1WWP-14N50D 99 1012 NA 7 ALIXCCW AC-CCW CPC-742-1 HCV-403C CPC-742-1 9841 WPN-14N50D 99 1012 NA 7 ALIXCCW AC-CCW CPC-742-1 HCV-403C CPC-742-1 9841 WPN-14N50D 99 1012 NA 7 ALIXCCW AC-CCW DPC-742-1 HCV-403C CPC-742-1 9841 WPN-14N50D 99 1012 NA 7 ALIXCCW AC-CCW DPC-742-1 HCV-403C CPC-742-1 9841 WPN-14N50D 99 1012 NA 7 ALIXCCW AC-CCW DPC-742-1 HCV-403C CPC-742-1 9841 WPN-14N50D 99 1012 NA 7 ALIXCCW AC-CCW DPC-742-1 HCV-403C DPC-742-2 9841 WPN-14N50D 99 1012 NA 7 ALIXCCW AC-CCW AC-CCC WAC-CCC WAC-CC	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
APC-742-1 HCV-400C APC-742-1 9841 I2WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM APC-742-2 9841 I0WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM BPC-742-1 BCV-400C BPC-742-1 9841 I0WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM BPC-742-1 HCV-400C BPC-742-1 9841 IWP-14NSD 59 1012 NA 7 ALIXCOW ACCOM ACCOM BPC-742-1 HCV-400C CPC-742-1 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM CPC-742-1 HCV-400C CPC-742-1 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM ACCOM DPC-742-1 HCV-400C CPC-742-1 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM DPC-742-1 HCV-400C CPC-742-2 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM DPC-742-2 HCV-400C DPC-742-1 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM DPC-742-2 HCV-400C DPC-742-1 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM DPC-742-2 HCV-400C DPC-742-2 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM ACCOM ACCOC 2 HCV-400C DPC-742-1 9841 WP-14NSD 59 1012 NA 7 ALIXCOW ACCOM ACCOC 2 HCV-400C 04-1400 41269 AC-DC-2 77 1036 Al-41A-12 7 ALIXCOW ACCOM ACCOC 2 HCV-400C 94-1400 41269 AC-DC-2 77 1036 Al-41A-12 7 ALIXCOW ACCOM AC-DC-2 HCV-400C 94-1400 41269 GM-2 77 1036 Al-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 Al-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-12 7 ALIXCOW ACCOM AL-43A HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-13 7 ALIXCOW ACCOM AL-43B HCV-400C FC-419A 41269 GM-2 77 1036 AL-41A-13 7 ALIXCOW ACCOM AL-43B HCV-400C FC-419A ALIXCOW ACCOM AL-43B FC-400C	AC-DC-1	HCV-403C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
APC-740-2 HCV-400C BPC-742-1 9841 10WP-14NSD 59 1012 NA 7 AUXCCW ACCCW BPC-742-1 HCV-400C BPC-742-1 9841 14WP-14NSD 59 1012 NA 7 AUXCCW ACCCW ACCCW ACCCW ACCCW BPC-742-1 HCV-400C BPC-742-1 9841 6WP-14NSD 59 1012 NA 7 AUXCCW ACCCW ACCC	AC-DC-1	HCV-403C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
BPC-742-1	A/PC-742-1	HCV-403C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
BPC-742-2 HCV-403C	A/PC-742-2	HCV-403C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
CPC-742-1	B/PC-742-1	HCV-403C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
CPC-742-2 HCV-400C DFC-742-2 9841 4WF-14N6D 59 1012 NA 7 ALVCCW AC-CCW DPC-742-1 HCV-400C DFC-742-1 9841 6WF-14N6D 59 1012 NA 7 ALVCCW AC-CCW DPC-742-2 9841 6WF-14N6D 59 1012 NA 7 ALVCCW AC-CCW AC-CCCW DPC-742-2 9841 6WF-14N6D 59 1012 NA 7 ALVCCW AC-CCW AC-CCC AC-CC-2 HCV-400C 62-403 41269 AC-DC-2 77 1036 AL-11A-12 7 ALVCCW AC-CCW AC-CCC AC-CC-2 HCV-400C 94-1403 41269 AC-DC-2 77 1036 AL-11A-12 7 ALVCCW AC-CCW AC-CCC AC-CC-2 HCV-400C 94-2403 41269 AC-DC-2 77 1036 AL-11A-12 7 ALVCCW AC-CCW AC-CCC HCV-400C 94-2403 41269 AC-DC-2 77 1036 AL-11A-12 7 ALVCCW AC-CCW AC-CCC HCV-400C 94-2403 41269 GM-2 77 1036 AL-11A-12 7 ALVCCW AC-CCW AC-CCC HCV-400C 742A-3 41269 GM-2 77 1036 AL-11A-08 7 ALVCCW AC-CCW AC-CCW AL-3AA HCV-400C 742B-3 41564 AL-3AA 77 1036 AL-11A-08 7 ALVCCW AC-CCW AL-3AA HCV-400C 742B-3 41564 AL-3AA 77 1036 AL-11A-08 7 ALVCCW AC-CCW AL-3AB HCV-400C 742B-3 41567 AL-3BB 77 1036 AL-11B-08 7 ALVCCW AC-CCW AL-3AA HCV-400C 742B-3 41567 AL-3BB 77 1036 AL-11B-08 7 ALVCCW AC-CCW AL-3AAB HCV-400C 742B-3 41567 AL-3BB 77 1036 AL-11B-08 7 ALVCCW AC-CCW AL-3AAB HCV-400C 742B-3 41567 AL-3BB 77 1036 AL-11B-08 7 ALVCCW AC-CCW AL-3AAB HCV-400C 742B-3 41567 AL-3BB 77 1036 AL-11B-08 7 ALVCCW AC-CCW AL-3AAB HCV-400C 86A-143B 9806 AL-3AA(ESF) T7 1036 AL-11B-08 7 ALVCCW AC-CCW AL-3AAB HCV-400D 86A-CPIS 9806 AL-3AA(ESF) T7 1036 AL-11B-06 7 ALVCCW AC-CCW AL-3AABASH HCV-403D 86B-CLAS 9806 AL-3AA(ESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3AABASH HCV-403D 86B-CLAS 9806 AL-3AA(ESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3AABASH HCV-403D 86B-CLAS 9806 AL-3AA(ESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3AABASH HCV-403D 86B-CLAS 9816 AL-3AA(ESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3AABASH HCV-403D 86B-CLAS 9816 AL-3ABBESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3AABASH HCV-403D 86B-CLAS 9816 AL-3ABBESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3ABBESF) HCV-403D 86B-CLAS 9816 AL-3ABBESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3ABBESF) HCV-403D 86B-CLAS 9816 AL-3ABBESF) T7 1036 AL-11B-13 7 ALVCCW AC-CCW AL-3ABBESF) HCV-403D 86B-CLAS 9816 AL-3ABBESF) T	B/PC-742-2	HCV-403C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
DPC-742-1	C/PC-742-1	HCV-403C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
DPC-742-2	C/PC-742-2	HCV-403C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2 HCV-403C 62/403 41269 AC-DC-2 77 1036 A1-41A-12 7 AUXCCW AC-CCW AC-DC-2 HCV-403C 94-1/403 41269 AC-DC-2 77 1036 A1-41A-12 7 AUXCCW AC-CCW AC-DC-2 HCV-403C 94-1/403 41269 AC-DC-2 77 1036 A1-41A-12 7 AUXCCW AC-CCW AC-DC-2 HCV-403C 94-1/403 41269 AC-DC-2 77 1036 A1-41A-12 7 AUXCCW AC-CCW AC-DC-2 HCV-403C FC-419A 41269 CM-2 77 1036 A1-40D-01 7 AUXCCW AC-CCW AC-AC-DC-1 A1-43A HCV-403C 742A-3 41564 A1-43A 77 1036 A1-41A-08 7 AUXCCW AC-CCW A1-43B HCV-403C 742B-3 41567 A1-43B 77 1036 A1-41A-08 7 AUXCCW AC-CCW A1-43B HCV-403C 86/A1-43A 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-43B HCV-403C 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86A-CCAS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86A-CCAS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86A/CPHS 9806 A1-30A(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86B IC-DAS 9806 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86B IC-DAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86B IC-DAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86B IC-DAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86B IC-DAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30A(ESF) HCV-403D 86B IC-DAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9816 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9816 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9816 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9816 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9817 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86B IC-DAS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXCCW AC-CCW A1-30B(ESF) HCV-403D 86A IC-DAS 9817 A1-30B(ESF) 77 1036 A1-41B	D/PC-742-1	HCV-403C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2 HCV-403C 94-1/403 41269 AC-DC-2 77 1036 A1-41A-12 7 AUXICCW AC-CCW AC-DC-2 HCV-403C 94-2/403 41269 AC-DC-2 77 1036 A1-41A-12 7 AUXICCW AC-CCW AC-DC-2 HCV-403C FC-419A 41269 GM-2 77 1036 A1-41A-12 7 AUXICCW AC-CCW A1-43A HCV-403C FC-419A 41269 GM-2 77 1036 A1-40D-01 7 AUXICCW AC-CCW A1-43A HCV-403C 86-A1-3A 41564 A1-43A 77 1036 A1-41A-08 7 AUXICCW AC-CCW A1-43A HCV-403C 86-A1-3A 41564 A1-43A 77 1036 A1-41A-08 7 AUXICCW AC-CCW A1-43B HCV-403C 86-A1-3A 41567 A1-43B 77 1036 A1-41B-08 7 AUXICCW AC-CCW A1-43B HCV-403C 86-A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-A1-43B 41567 A1-3B 77 1036 A1-41B-08 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-A1-43B 41567 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-A1-43B 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-A1-43B 9806 A1-30A(ESF) 77 1036 A1-41B-03 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-A1-43B 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-B1/CHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-B1/CHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-B1/CHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-B1/CHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30A(ESF) HCV-403D 86-B1/CHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9816 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9817 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9817 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9817 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D 86-B1/CHS 9817 A1-30B(ESF) 77 1036 A1-41B-13 7 AUXICCW AC-CCW A1-30B(ESF) HCV-403D A1-41B-102Y 9829 AC-DC-1 77 1036 A	D/PC-742-2	HCV-403C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2 HCV-403C 94-2/403 41269 AC-DC-2 77 1036 Al-41A-12 7 AUXICCW AC-CCW AC-2 HCV-403C FC-419A 41269 GM-2 77 1036 Al-40D-01 7 AUXICCW AC-CCW AC-AGN	AC-DC-2	HCV-403C	62/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
GM-2 HCV-403C FC-419A 41269 GM-2 77 1036 A1-40D-01 7 ALVXCCW AC-CCW A1-43A HCV-403C 742A-3 41564 A1-43A 77 1036 A1-41A-08 7 ALVXCCW AC-CCW A1-43A HCV-403C 86/A1-43A 41564 A1-43B 77 1036 A1-41A-08 7 ALVXCCW AC-CCW A1-43B HCV-403C 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 ALVXCCW AC-CCW A1-43B HCV-403C 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 ALVXCCW AC-CCW A1-43B HCV-403C 86/A1-43B 41567 A1-43B 77 1036 A1-41B-08 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86A/CLAS 9806 A1-30A(ESF) 77 1036 A1-41B-08 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86A/CPHS 9806 A1-30A(ESF) 77 1036 A1-41A-06 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CLAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CLAS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CPHS 9807 A1-30A(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30A(ESF) HCV-403D 86B/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-13 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86B/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86B/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86B/CPHS 9816 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86B/CPHS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86A/CPHS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86A/CPHS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86A/CPHS 9817 A1-30B(ESF) 77 1036 A1-41B-06 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86A/CPHS 9817 A1-30B(ESF) 77 1036 A1-41A-13 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D 86A/CPHS 9817 A1-30B(ESF) 77 1036 A1-40A-01 7 ALVXCCW AC-CCW A1-30B(ESF) HCV-403D APA-102Y-1 9829 AC-DC-1 77 1036 A1-40A-01 7 ALVXCCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-1 9829 AC-DC-1 77 1036 A1-40	AC-DC-2	HCV-403C	94-1/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
Al-43A HCV-403C 742A-3 41564 Al-43A 77 1036 Al-41A-08 7 AUX/CCW AC-CCW Al-43A HCV-403C 86Al-43A 41564 Al-43A 77 1036 Al-41A-08 7 AUX/CCW AC-CCW Al-43B HCV-403C 742B-3 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-43B HCV-403C 86/Al-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CIAS 9806 Al-30A(ESF) 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41B-106 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41B-106 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D APIA-102Y-1 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW CB-1.2.3 HCV-403D APIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW CB-1.2.3 HCV-403D BPIA-102Y-1 9829 AC	AC-DC-2	HCV-403C	94-2/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
Al-43A HCV-403C 86/Al-43A 41564 Al-43A 77 10°6 Al-41A-08 7 AUX/CCW AC-CCW Al-43B HCV-403C 742B-3 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-43B HCV-403C 86/Al-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/AL-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/ACPIS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/ACPIS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/ACPIS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/ACPIS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/BICPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/BICPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/BICPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86/BICPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/BICPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/BICPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/BICPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/BICPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/BICPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/BICPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86/AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D APIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D APIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D CPIA-102Y-1 9829	GM-2	HCV-403C	FC-419A	41269	GM-2	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
Al-43B HCV-403C 742B-3 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-34B HCV-403C 86/Al-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CAS 9817 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D Al-30B(ESF) 9817 Al-30B(ESF) 77 1036 Al-40A-01 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D BPIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW A	A1-43A	HCV-403C	742A-3	41564	A1-43A	77	1036	Al-41A-08	7	AUX/CCW	AC-CCW
Al-43B HCV-403C 86/Al-43B 41567 Al-43B 77 1036 Al-41B-08 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86BI/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86BI/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86BI/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW AC-CCW AC-CCC AC-CC	A1-43A	HCV-403C	86/AI-43A	41564	AI-43A	77	10%	A1-41A-08	7	AUX/CCW	AC-CCW
Al-30A(ESF) HCV-403D 86A/CIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86BI/CIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86BI/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86BI/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-16 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D APIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D APIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D BPIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D CPIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D	AI-43B	HCV-403C	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
Al-30A(ESF) HCV-403D 86A/CPHS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86A/PPLS 9806 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CIAS 9817 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW AC-CCW AC-CCW AC-COW AC-C	A1-43B	HCV-403C	86/AI-43B	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
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Al-30A(ESF) HCV-403D 86B1/CHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW AC-CCW AC-CCCW AC-CCW AC-CCCW AC-CCW AC-CC	AI-30A(ESF)	HCV-403D	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF) HCV-403D 86B1/CPHS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-403D 86B1/CPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B1/CPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-CCW AC-CCC HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2	AI-30A(ESF)	HCV-403D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF) HCV-403D 86BI/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/CHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86BI/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86AI/PLS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7	AI-30A(ESF)	HCV-403D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30B(ESF) HCV-403D 86B/C!AS 9816 Al-30B(ESF) 77 1036 Al-1B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86B/CPHS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A I/CIAS 9817 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A I/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A I/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A I/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC	AI-30A(ESF)	HCV-403D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30B(ESF) HCV-403D 86B/CPHS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-403D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-403D 86A1/CIAS 9817 AI-30B(ESF) 77 1036 AI-41A-13 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-403D 86A1/CPHS 9817 AI-30B(ESF) 77 1036 AI-41A-13 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-403D 86A1/PPLS 9817 AI-30B(ESF) 77 1036 AI-41A-13 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-403D 86A1/PPLS 9817 AI-30B(ESF) 77 1036 AI-41A-13 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 CB-1-2-3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-0	AI-30A(ESF)	HCV-403D	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30B(ESF) HCV-403D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX	AI-30B(ESF)	HCV-403D	86B/C!AS	9816	AI-30B(ESF)	77	1036	AI -1B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF) HCV-403D 86A1/CIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/PPLS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 CB-1-2-3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40	AI-30B(ESF)	HCV-403D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF) HCV-403D 86A1/CPHS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-403D 86A1/PPLS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-DC-1 AUX/CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC	AI-30B(ESF)	HCV-403D	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF) HCV-403D 86A1/PPLS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D A/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40A-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D B/PIA-102Y 9829 CB-1-2-3 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 Al-40C-01 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-403D	86A1/CIAS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1.2.3 HCV-403D A/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-403D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-403D A/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D C/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D C/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	A1-30B(ESF)	HCV-403D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-403D A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D B/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D C/PIA-102Y 9829 CB-1 - 2 - 3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	CB-1,2,3	HCV-403D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1.2.3 HCV-403D B/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-403D B/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403D	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1,2,3 HCV-403D C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	CB-1,2,3	HCV-403D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1 HCV-403D B/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40B-01 7 AUX/CCW AC-CCW CB-1.2.3 HCV-403D C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	
CB-1,2,3 HCV-403D C/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-I	HCV-403D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7		
AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	CB-1,2,3	HCV-403D	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7		
AC-DC-1 HCV-403D C/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403D	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	
CB-1,2,3 HCV-403D D/PIA-102Y 9829 CB-1-2-3 77 1036 AI-40D-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
	CB-1,2,3	HCV-403D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-403D	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-403D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-403D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-403D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-403D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-403D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-403D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403D	94-3/403	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-43A	HCV-403D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403D	86/AI-43A	41564	AI-43A	77	1036	Al-41A-08	7	AUX/CCW	AC-CCW
A!-43B	HCV-403D	742B-4	41567	AI-43B	7.7	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-403D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-438A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-438A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-438A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438A	B/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-438A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-438A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-438A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-438A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AI-45	HCV-438A	94/438A/C	41303	AI-45	77	1036	AI-41A-17	7	AUX/CCW	AC-CCW
PCS-412	HCV-438A	PCS-412	41303	OW'N-ON'7A	69	1026	NA	7	AUX/CCW	AC-CCW
AI-43A	HCV-438A	742A-2	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-438A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-438B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1.2,3	HCV-438B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-438B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-438B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-438B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-438B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AI-45	HCV-438B	94/438B/D	41303	AI-45	77	1036	AI-41B-02	7	AUX/CCW	AC-CCW
PCS-413	HCV-438B	PCS-413	41303	OW'N-ON'7A	69	1026	NA	2	AUX/CCW	AC-CCW
AI-43B	HCV-438B	742B-2	41567	A1-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-438B	86/AI-43B	41567	AI-43B	77	1036	A1-41B-08	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-438C	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-438C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	C/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-438C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-438C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-1	HCV-438C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-438C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AI-45	HCV-438C	94/438A/C	41303	AI-45	77	1036	AI-41A-17	7	AUX/CCW	AC-CCW
PCS-412	HCV-438C	PCS-412	41303	OW'N-GN'7A	69	1026	NA	7	AUX/CCW	AC-CCW
AI-43A	HCV-438C	742A-2	41564	AI-43A	77	1036	Al-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-438C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86B/PPLS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-438D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438D	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	B/PIA-102Y	9829	CB-1-2-3	77	1036	Al-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438D	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-438D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	- 7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-438D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-438D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-438D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AI-45	HCV-438D	94/438B/D	41303	A1-45	77	1036	Ai-41B-02	7	AUX/CCW	AC-CCW
PCS-413	HCV-438D	PCS-413	41303	OW'N-ON'7A	69	1026	NA	7	AUX/CCW	AC-CCW
AI-43B	HCV-438D	742B-2	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-438D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-489A	A/94-3/SIAS	5649	AC-DC-1	77	1036	Al-41A-12	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86A/PPLS	9806	Al-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-489A	86AX/SIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86B1/CPHS	9807	A1-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-489A	B/PIA-102Y-1	9829	AC-DC-1	27	1036	AI-40B-01	7	AUX/CCW	AC-CCW

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-489A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-489A	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV 489A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-489A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-489A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-489A	C/PC-742-1	9841	6W"P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-489A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-489A	94/489	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	A/94-3/SIAS	5649	AC-DC-I	. 77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-489B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-489B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-489B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-489B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-489B	94/489	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490A	B/94-3/SIAS	5650	AC-DC-1	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-490A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490A	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-490A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-490A	86A1/PPLS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490A	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-490A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-490A	8/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-490A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-490A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-490A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-490A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-490A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-490A	94/490	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	B/94-3/SIAS	5650	AC-DC-1	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-490B	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-490B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCV/	AC-CCW
AI-30B(ESF)	HCV-490B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Ai-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-490B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-490B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-490B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-490B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-490B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-490B	94/490	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	A/94-3/SIAS	5649	AC-DC-1	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86A/PPLS	>806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	. 7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86B1/PPLS	9807	AI-30A(ESF)	27	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-491A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491 A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
4/PC-742-1	HCV-491A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-491A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-491A	C/PC-742-1	9841	6W'P-14N'6D		1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-491A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-491A	94/49]	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491B	A/94-3/SIAS	5649	AC-DC-1	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86AX/SIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86B1/PPLS	9807	A1-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-491B	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-491B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7 -	AUX/CCW	AC-CCW
B/PC-742-1	HCV-491B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-491B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-491B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-491B	94/491	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	B/94-3/SIAS	5650	AC-DC-1	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-492A	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-492A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-492A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	B/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	C/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	C/PIA-192Y-2	9829	AC-DC-1	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
CB-1 2,3	HCV-492A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-492A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-492A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-492A	C/PC-742-2	9841	4W'F-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-492A	D/PC-742-2	9841	6W'P-14N'5D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-492A	94/492	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	B/94-3/SIAS	5650	AC-DC-I	77	1036	A1-41B-12	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-492B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	. 7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-492B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-2	HCV-492B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-492B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-2	HCV-492B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-492B	94/492	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-33A	HCV-724A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON
AI-33A	HCV-724A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON
AI-33A	HCV-724A	94-1/RM-060	9799	AI-33A	77	1036	NA	0	AUX/CCW	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-33A	HCV-724A	RM-050	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CON
AI-33A	HCV-724A	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CON
AI-33B	HCV-724A	RM-060	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON
AI-33B	HCV-724A	RM-061	9799	A1-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON
AI-33B	HCV-724A	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/OCW	VA-CON
AI-30A(ESF)	HCV-724A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
A1-30A(ESF)	HCV-724A	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86B1/PPLS	9807	AI-30A(ESF)	. 77	1036	Al-41B-13	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86B1/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-724A	86B1/VIAS	9807	Al-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CON
Al-30B(ESF)	HCV-724A	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-724A	86B/CRHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	0	AUX/CCW	VA-CON
Al-30B(ESF)	HCV-724A	86B/CSAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-724A	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-724A	86B/SIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-724A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-724A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-724A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-724A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-724A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	0	AUX/CCW.	VA-CON
AC-DC-1	HCV-724A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40B-01 ,	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-724A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-724A	C/PIA-102Y-I	9829	AC-DC-I	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-724A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-724A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-724A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-724A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40D-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-724A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-724A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	0	AUX/CCW	VA-CON
A/PC-742-1	HCV-724A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
A/PC-742-2	HCV-724A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-1	HCV-724A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-2	HCV-724A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
C/PC-742	2-1 HCV-724A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON	
C/PC-742	2-2 HCV-724A	C/PC-742-2	9841	4W'P-14N'6D.	59	1012	NA	0	AUX/CCW	VA-CON	
D/PC-742	2-1 HCV-724A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	0	AUX/CCW	VA-CON	
D/PC-742	2-2 HCV-724A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON	
AI-30A(E	ESF) HCV-724A	94/724A	12287	AI-30A(ESF)	77	1036	Al-41A-06	0	AUX/CCW	VA-CON	
AI-33A	HCV-725A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON	
AI-33A	HCV-725A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON	
AI-33A	HCV-725A	94-1/RM-060	9799	AI-33A	77	1036	NA	0	AUX/CCW	VA-CON	
AI-33A	HCV-725A	RM-050	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CON	
AI-33A	HCV-725A	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CON	
AI-33B	HCV-725A	RM-060	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON	
AI-33B	HCV-725A	RM-061	9799	AI-33B	- 77	1036	AI-40D-19	0	AUX/CCW	VA-CON	
A1-33B	HCV-725A	RM-062	9799	A1-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON	
A1-30A(E	ESF) HCV-725A	86A/CPHS	9806	AI-30A(ESF)	77	1036	Aī-41A-06	0	AUX/CCW	VA-CON	
AI-30A(E	ESF) HCV-725A	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON	
AI-30A(E	ESF) HCV-725A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON	
AI-30A(E	ESF) HCV-725A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON	
AI-30A(E	ESF) HCV-725A	86A/SIAS	9806	A1-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON	
A1-30B(E	ESF) HCV-725A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON	
AI-30B(E	ESF) HCV-725A	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON	
A1-30B(E	ESF) HCV-725A	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON	
AI-30B(E	ESF) HCV-725A	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON	
A1-30B(E	ESF) HCV-725A	86B/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON	
AI-30B(E	ESF) HCV-725A	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON	
A1-30B(E	ESF) HCV-725A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON	
AI-30B(E	ESF) HCV-725A	86A1/CRHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON	
A1-30B(E	ESF) HCV-725A	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON	
AI-30B(E	ESF) HCV-725A	86A1/PPLS	9817	Al-30B(ESF)	77	1036	Al-41A-13	0	AUX/CCW	VA-CON	
AI-30B(E	ESF) HCV-725A	86A1/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON	
A1-30B(E	ESF) HCV-725A	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	O	AUX/CCW	VA-CON	
CB-1,2,3	HCV-725A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON	
CB-1,2,3	HCV-725A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	0	AUX/CCW	VA-CON	
CB-1,2,3	HCV-725A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40C-01	0	AUX/CCW	VA-CON	
CB-1,2,3	HCV-725A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	0	AUX/CCW	VA-CON	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-725A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI 40D-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-725A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	0	AUX/CCW	VA-CON
A/PC-742-1	HCV-725A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
A/PC-742-2	HCV-725A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-1	HCV-725A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-2	HCV-725A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
C/PC-742-1	HCV-725A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
C/PC-742-2	HCV-725A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
D/PC-742-1	HCV-725A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	0	//UX/CCW	VA-CON
D/PC-742-2	HCV-725A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
A1-30B(ESF)	HCV-725A	94/725A	12287	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
A1-297	HCV-921	62-1/921/922	22613	AI-207	TURB	1039	NA	7	DHR	MS
A1-207	HCV-921	62/921	22613	A1-207	TURB	1039	NA	7	DHR	MS
AI-207	HCV-922	62-1/921/922	22613	AI-207	TURB	1039	NA	7	DHR	MS
A1-207	HCV-922	62/922	22613	AI-207	TURB	1039	NA	7	DHR	MS
DI	JW-2-1	D1-21-103A	17397	D-1	57	1019	NA	21	AUX/EDG	JW
DI	JW-2-1	D1-68-42FP	17397	DI	63	1007	NA	21	AUX/EDG	JW
DI	JW-2-1	D1-21-127E2	17398	D-1	57	1019	NA	21	AUX/EDG	IW
YT-6048	JW-2-1	YT-6048	17398	2E'K-5N'1A	63	1014	NA	21	AUX/EDG	JW
D1	JW-2-1	D1-68-42FP	17411	AI-133A	63	1007	NA	21	AUX/EDG	JW
DI	JW-2-1	D1-68-42FP	17411	DI	63	1007	NA	21	AUX/EDG	JW
DG-1	JW-2-1	TC-6032	17411	2W'K-9N'1A	63	1013	NA	21	AUX/EDG	JW
DI	JW-2-2	D1-68-42FP	17397	DI	63	1007	NA	21	AUX/EDG	JW
D2	JW-2-2	D2-21-103A	17397	D-2	57	1019	NA	21	AUX/EDG	JW
D2	JW-2-2	D2-21-127E2	17398	D-2	57	1019	NA	21	AUX/EDG	JW
YT-6148	JW-2-2	YT-6148	17398	2E'K-10S'2B	64	1014	NA	21	AUX/EDG	JW
DI	JW-2-2	D1-68-42FP	17411	AI-133A	63	1007	NA	21	AUX/EDG	JW
DI	JW-2-2	D1-68-42FP	17411	Di	63	1007	NA	21	AUX/EDG	JW
DG-2	JW-2-2	TC-6132	17411	2W'K-6S'2B	64	1013	NA	21	AUX/EDG	JW
AC-DC-1	LCV-218-2	A/94-3/SIAS	5649	AC-DC-1	77	1036	AI-41A-12	7	INV,R,P	CH
AC-DC-2	LCV-218-2	63X/LCS-218	9543	AC-DC-2	77	1036	AI-42B-09	7	INV,R,P	CH
AI-30A(ESF)	LCV-218-2	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	LCV-218-2	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
A1-30A(ESF)	LCV-218-2	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
A1-30A(ESF)	LCV-218-2	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AJ-41B-13	7	INV,R,P	CH
AI-30A(ESF)	LCV-218-2	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	LCV-218-2	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30B(ESF)	LCV-218-2	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	LCV-218-2	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	LCV-218-2	86BX/SIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	INV,R,P	CH
AI-30B(ESF)	LCV-218-2	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	LCV-218-2	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	LCV-218-2	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
CB-1,2,3	LCV-218-2	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
CB-1,2,3	LCV-218-2	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
CB-1,2,3	LCV-218-2	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	C/PIA-102Y-2	9829	AC-DC-I	77	1036	Al-40C-01	7	INV,R,P	CH
CB-1,2,3	LCV-218-2	D/P1A- '02Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-401-91	7	INV,R,P	CH
AC-DC-1	LCV-218-2	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	LCV-218-2	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV,R,P	CH
A/PC-742-1	LCV-218-2	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
A/PC-742-2	LCV-218-2	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-1	LCV-218-2	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-2	LCV-218-2	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-1	LCV-218-2	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-2	LCV-218-2	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
D/PC-742-1	LCV-218-2	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV,R,P	CH
D/PC-742-2	LCV-218-2	D/PC-742-2	9841	6W"P-14N'6D	59	1012	NA	7	INV,R,P	CH
MCC-3A2	LCV-218-2	74/LCV-218-2	41465	MCC-3A2-E04	4	989	MCC-3A2	7	INV,R,P	CH
MCC-3A2	LCV-218-2	Mc/LCV-218-2	41465	MCC-3A2	4	989	MCC-3A2	7	INV,R,P	CH
MCC-3A2	LCV-218-2	Mo/LCV-218-2	41465	MCC-3A2	4	989	MCC-3A2	7	INV,R,P	CH
AC-DC-1	LCV-218-2	B/94-4/SIAS	41673	AC-DC-I	77	1036	AI-41B-12	7	INV,R,P	CH
MCC-3A2	LCV-218-3	74/LCV-218-3	1258	MCC-3A2-E03	4	989	MCC-3A2	7	INV.R.P	CH
MCC-3A2	LCV-218-3	Mc/LCV-218-3	1258	MCC-3A2	4	989	MCC-3A2	7	INV.R.P	CH
MCC-3A2	LCV-218-3	Mo/LCV-218-3	1258	MCC-3A2	4	989	MCC-3A2	7	INV,R,P	СН
AC-DC-2	LCV-218-3	63X/LCS-218	9543	AC-DC-2	77	1036	AI-42B-09	7	INV,R,P	СН
LCS-218	LCV-218-3	LCS-218	9543	43WT-12N7A	29	1019	AI-42B-09	7	INV,R,P	CH
CB-10,11	MS-291	94/291	43437	CB-10 - 11	77	1036	AI-41A-14	7	DHR	MS
CB-10,11 AUX	MS-292	94/292	43437	CB-10 - 11 AUX	77	1036	AI-41B-14	7	DHR	MS
AI-31A	PCV-102-1	AI-31A-AW10-K1	1605	AI-31A	77	1036	NA	. 7	PC	RC
AI-31B	PCV-102-1	AI-31B-BW10-K1	1605	AI-31B	77	1036	NA	7	, PC	RC

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-31C	PCV-102-1	AI-31C-CW10-K1	1605	AI-31C	77	1036	NA	7	PC	RC
AI-31D	PCV-102-1	Al-31D-DW10-K1	1605	AI-31D	77	1036	NA	7	PC	RC
AC-DC-I	PCV-102-1	94-1/PPLS-A	9831	AC-DC-1	77	1036	AI-40A-01	7	PC	RC
AC-DC-I	PCV-102-1	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	PC	RC
AI-198	PCV-102-1	3/102-1	37777	AI-198	57	1013	NA	7	PC	RC
GM-1	PCV-102-1	3X-1/102-1	37777	GM-I	77	1036	NA	7	PC	RC
GM-I	PCV-102-1	3X-2/102-1	37777	GM-1	77	1036	NA	7	PC	RC
GM-1	PCV-102-1	3X-3/102-1	37777	GM-1	77	1036	NA	7	PC	RC
AC-DC-2	PCV-102-1	63X/102-1	37777	AC-DC-2	77	1036	AI-41A-12	7	PC	RC
AC-DC-2	PCV-102-1	63X/102-2	37777	AC-DC-2	77	1036	AI-41A-12	7	PC	RC
MCC-3C1	PCV-102-1	M/PCV-102-1	37777	MCC-4B1	57	1013	MCC-4B1	7	PC	RC
AI-31A	PCV-102-2	Al-31A-AW10-K1	1605	AI-31A	77	1036	NA	7	PC	RC
AI-31B	PCV-102-2	AI-31B-BW10-K1	1605	AI-31B	77	1036	NA	7	PC	RC
AI-31C	PCV-102-2	A1-31C-CW10-K1	1605	AI-31C	77	1036	NA	7	PC	RC
AI-31D	PCV-102-2	AI-31D-DW10-K1	1605	AI-31D	77	1036	NA	7	PC	RC
AC-DC-1	PCV-102-2	94-1/PPLS-B	9831	AC-DC-1	77	1036	AI-40D-01	7	PC	RC
AC-DC-1	PCV-102-2	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	PC	RC
AI-185	PCV-102-2	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC	RC
AI-197	PCV-102-2	3/102-2	37777	AI-197	56	1011	NA	7	PC	RC
AI-31E	PCV-102-2	3X-1/102-2	37777	AI-31E	77	1036	NA	7	PC	RC
AI-31E	PCV-102-2	3X-2/102-2	37777	AI-31E	77	1036	NA	7	PC	RC
AI-31E	PCV-102-2	3X-3/102-2	37777	AI-31E	77	1036	NA	7	PC	RC
AC-DC-2	PCV-102-2	63X/102-1	37777	AC-DC-2	77	1036	AI-41A-12	7	PC	RC
AC-DC-2	PCV-102-2	63X/102-2	37777	AC-DC-2	77	1036	AI-41A-12	7	PC	RC
MCC-4B1	PCV-102-2	M/PCV-102-2	37777	MCC-3C1	57	1013	MCC-3C1	7	PC	RC
AI-33A	PCV-840B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	PCV-840B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	PCV-840B	94-1/RM-060	9799	A1-33A	77	1036	NA	0	AUX/CCW	VA-CR
AI-33A	PCV-840B	RM-050	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CR
AI-33A	PCV-840B	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CR
A1-33B	PCV-840B	RM-060	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	PCV-840B	RM-061	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	PCV-840B	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
Al-30A(ESF)	PCV-840B	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-30A(ESF)	PCV-840B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-30A(ESF)	PCV-840B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
Al-30A(ESF)	PCV-840B	86B1/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
Al-30A(ESF)	PCV-840B	86B1/VIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-54B	PCV-840B	94-25/FD	9828	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-840B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-840B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-840B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-840B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40B-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-840B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-840B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-840B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-840B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-840B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
A/PC-742-1	PCV-840B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
B/PC-742-1	PCV-840B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
C/PC-742-1	PCV-840B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
D/PC-742-1	PCV-840B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	0	AUX/CCW	VA-CR
AI-224A	PCV-840B	42/46A	21846	AI-224A	72	1036	NA	0	AUX/CCW	VA-CR
VA-46A	PCV-840B	CRI/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	PCV-840B	MCI/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	PCV-840B	MS1/VA46A	21846	VA-46A	72	1036	NA	0	AUX/CCW	VA-CR
VA-46A	PCV-840B	RR/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	PCV-840B	TS/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	42X/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	5-1/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-840B	5-1/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	5/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-840B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	94-1/6288A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
Al-106B	PCV-840B	94-1/6288B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	94-1/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-840B	94-2/6288B	21847	Al-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	94-2/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	94/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	94AXI/VIAS	21847	AI-106A	. 77	1036	NA	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106A	PCV-840B	94AX2/VIAS	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-34	PCV-840B	YIS-6287A	21847	AI-34	77	1036	A1-42A-09	0	AUX/CCW	VA-CR
AI-35	PCV-840B	Y1S-6287B	21847	AI-35	77	1036	AI-42B-11	0	AUX/CCW	VA-CR
YIT-6286A	PCV-840B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
Y1T-6286B	PCV-840B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	0	AUX/CCW	VA-CR
YIT-6288A	PCV-840B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6288B	PCV-840B	Y1T-6288B	21847	12W'D-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
AI-54B	PCV-840B	94-25X/FD	39723	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
A1-56	PCV-840B	POX-5	39723	AI-56	77	1036	NA	0	AUX/CCW	VA-CR
AI-44	PCV-840B	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	0	AUX/CCW	VA-CR
AI-106A	PCV-840B	33X/291	43437	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-840B	33X/292	43437	A1-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-33A	PCV-841B	94-1/RM-050/061	9799	Al-33A	77	1036	A1-40A-15	0	AUX/CCW	VA-CR
AI-33A	PCV-841B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	PCV-841B	94-1/RM-060	9799	AI-33A	77	1036	NA .	6	AUX/CCW	VA-CR
AI-33A	PCV-841B	RM-050	9799	A1-33A	77	1036	A1-40C-19	0	AUX/CCW	VA-CR
A1-33A	PCV-841B	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CR
AI-33B	PCV-841B	RM-060	9799	Al-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	PCV-841B	RM-061	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	PCV-841B	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
A1-30B(ESF)	PCV-841B	86B/CIAS	9816	Al-30B(ESF)	77	1036	AJ 41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86B/CPHS	9816	AI-30B(ESF)	77	1036	A1-41B-06	0	AUX/CCW	VA-CR
A!-30B(ESF)	PCV-841B	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86B/SIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW .	VA-CR
AI-30B(ESF)	PCV-841B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13 .	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86A1/CRHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	Al-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	PCV-841B	86A1/SLAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
A1-30B(ESF)	PCV-841B	86AI/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-54B	PCV-841B	94-25/FD	9828	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-841B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-841B	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	PCV-841B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-841B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CR
AC-DC-1	PCV-841B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	0	AUX/CCW	VA-CR
A/PC-742-2	PCV-841B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
B/PC-742-2	PCV-841B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
C/PC-742-2	PCV-841B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
D/PC-742-2	PCV-841B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
AJ-224A	PCV-841B	42/46B	21846	AI-224A	72	1036	NA	0	AUX/CCW	VA-CR
VA-46B	PCV-841B	CR1/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	PCV-841B	MCI/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	PCV-841B	MS1/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	PCV-841B	RR/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	PCV-841B	TS/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	42X/VA46B	21847	AI-224B	72	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-841B	5-1/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	5-1/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	5/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-841B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-841B	94-1/6288A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94-1/6288B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94-1/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-841B	94-2/6288A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94-2/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94BX1/VIAS	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	94BX2/VIAS	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-34	PCV-841B	YIS-6287A	21847	A1-34	77	1036	AI-42A-09	0	AUX/CCW	VA-CR
AI-35	PCV-841B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	0	AUX/CCW	VA-CR
Y1T-6286A	PCV-841B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6286B	PCV-841B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	0	AUX/CCW	VA-CR
Y1T-6288A	PCV-841B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
Y1T-6288B	PCV-841B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
AI-54B	PCV-841B	94-25X/FD	39723	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
A1-56	PCV-841B	POX-5	39723	AI-56	77	1036	NA	0	AUX/CCW	VA-CR
AI-44	PCV-841B	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	0	AUX/CCW	VA-CR
A1-106A	PCV-841B	33X/291	43437	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	33X/292	43437	Al-106B	77	1036	NA	0	AUX/CCW	VA-CR
AC-DC-2	RC-4-HTRS-1	63X/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	RC-4-HTRS-1	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-1	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AC-DC-2	RC-4-HTRS-1	63X/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-1	63X/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-1	LC-101X	9513	AI-4A	77	1036	A!-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-1	LC-101Y	9513	AI-4B	77	1036	A1-40B-21	21	PC	EE-5
Al-4A	RC-4-HTRS-1	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
Al-4B	RC-4-HTRS-1	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-1	86A/CPHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-1	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-1	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-1	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-1	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-1	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-I	A/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-1	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-1	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-1	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-1	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-1	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-1	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-1	PPLS/BLOCK-A	9831	AC-DC-1	- 77	1036	AI-40A-01	21	PC	EE-5
A/PC-742-1	RC-4-HTRS-1	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-1	RC-4-HTRS-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-1	RC-4-HTRS-I	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-1	RC-4-HTRS-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	21	PC	EE-5
A1-109A	RC-4-HTRS-1	62-A/LS	12280	AI-109A	56	1011	AI-41A-06	21	PC	EE-5
AI-109A	RC-4-HTRS-1	94-A1/LS	12280	AI-109A	56	1011	AI-41A-06	21	PC	EE-5
MCC-3A1	RC-4-HTRS-1	94/1	43399	MCC-3A1	57	1013	NA	21	PC	EE-5
MCC-3A1	RC-4-HTRS-1	M/RC-4-HTRS-1	43399	MCC-3A1	57	1013	MCC-3A1-B01	21	PC	EE-5
AC-DC-2	RC-4-HTRS-10	63X-1/PIC-103	9503	AC-DC-2	- 77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AC-DC-2	RC-4-HTRS-10	63X-1/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-10	63X-1/LIC-101	9513	AC-DC-2	77	1036	A1-40A-20	21	PC	EE-5
Al-4A	RC-4-HTRS-10	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-10	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4A	RC-4-HTRS-10	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-10	LIC-101Y	9513	AI-4B	77	1036	A1-40B-21	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	RC-4-HTRS-10	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
A1-30B(ESF)	RC-4-HTRS-10	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-10	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTR5-10	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-10	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTPS-10	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-10	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-10	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-10	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-10	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-10	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	21	PC	EE-5
A/PC-742-2	RC-4-HTRS-10	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-2	RC-4-HTRS-10	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-2	RC-4-HTRS-10	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-2	RC-4-HTRS-10	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
AI-185	RC-4-HTRS-10	43B/AI-185	12517	AI-185	57	1013	EE-8G-16	21	PC	EE-5
AI-109B	RC-4-HTRS-10	183X1	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-10	62-B/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-10	94-B2/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-10	94-B3/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	94/10	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	94/11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	94/12	43402	MCC-4C1	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	M/RC-4-HTRS-10	43402	MCC-4CI	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	M/RC-4-HTRS-11	43402	MCC-4Ci	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	M/RC-4-HTRS-12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
AC-DC-2	RC-4-HTRS-11	63X-1/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	. PC	EE-5
CB-1,2,3	RC-4-HTRS-11	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AC-DC-2	RC-4-HTRS-11	63X-1/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-11	63X-1/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-11	LC-101X	9513	AI-4A	77	1036	A1-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-11	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4A	RC-4-HTRS-11	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-11	LIC-101Y	9513	Ai-4B	77	1036	A!-40B-21	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	. PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	RC-4-HTRS-11	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
A1-30B(ESF)	RC-4-HTRS-11	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-11	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-11	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-11	C/PfA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-11	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-11	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	21	PC	EE-5
A/PC-742-2	RC-4-HTRS-11	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-2	RC-4-HTRS-11	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-2	RC-4-HTRS-11	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-2	RC-4-HTRS-11	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
AI-185	RC-4-HTRS-11	43B/AI-185	12517	Al-185	57	1013	EE-8G-16	21	PC	EE-5
AI-109B	RC-4-HTRS-11	183X1	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-11	62-B/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-11	94-B2/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-11	94-B3/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	94/10	43402	MCC-4C1	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	94/11	43402	MCC-4CI	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	94/12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	M/RC-4-HTRS-10	43402	MCC-4C1	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	M/RC-4-HTRS-11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	M/RC-4-HTRS-12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
AC-DC-2	RC-4-HTRS-12	63X-1/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1.2,3	RC-4-HTRS-12	PIC-103Y	9503	CB-I - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AC-DC-2	RC-4-HTRS-12	63X-1/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-12	63X-1/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-12	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-12	LC-101Y	9513	AI-48	77	1036	AI-40B-21	21	PC	EE-5
AI-4A	RC-4-HTRS-12	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-12	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
Al-30B(ESF)	RC-4-HTRS-12	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	RC-4-HTRS-12	86BX/SIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	C/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	21	PC	EE-5
A/PC-742-2	RC-4-HTRS-12	A/PC-742-2	9841	10W"F-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-2	RC-4-HTRS-12	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-2	RC-4-HTRS-12	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-2	RC-4-HTRS-12	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
AI-185	RC-4-HTRS-12	43B/AI-185	12517	AI-185	57	1013	EE-8G-16	21	PC	EE-5
AI-109B	RC-4-HTRS-12	183X1	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-12	62-B/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
Al-109B	RC-4-HTRS-12	94-B2/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-12	94-B3/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	94/10	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4CI	RC-4-HTRS-12	94/11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	94/12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	M/RC-4-HTRS-10	43402	MCC-4C1	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	M/RC-4-HTRS-11	43402	MCC-4CI	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	M/RC-4-HTRS-12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
AC-DC-2	RC-4-HTRS-2	63X/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	PIC-103X	9503	CB-1-2-3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AC-DC-2	RC-4-HTRS-2	63X/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTR© 2	63X/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-2	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-2	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4A	RC-4-HTRS-2	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-2	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	RC-4-HTRS-2	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-2	A/PIA-102Y-!	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-2	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-2	C/PIA-102Y-I	9829	AC-DC-I	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-2	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-2	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
A/PC-742-1	RC-4-HTRS-2	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-1	RC-4-HTRS-2	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-1	RC-4-HTRS-2	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-1	RC-4-HTRS-2	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	21	PC	EE-5
AI-109A	RC-4-HTRS-2	94-A3/LS	12280	AI-109A	56	1011	AI-41A-06	21	PC	EE-5
MCC-3A1	RC-4-HTRS-2	94/2	43399	MCC-3A1	57	1013	NA	21	PC	EE-5
MCC-3A1	RC-4-HTRS-2	M/RC-4-HTRS-2	43399	MCC-3A1	57	1013	MCC-3A1-C01	21	PC	EE-5
AC-DC-2	RC-4-HTRS-3	63X/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AC-DC-2	RC-4-HTRS-3	63X/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-3	63X/LIC-101	9513	AC-DC-2	77	1036	A1-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-3	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-3	LC-101Y	9513	Al-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4A	RC-4-HTRS-3	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-3	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21 ·	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AJ-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Ai-40C-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	RC-4-HTRS-3	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
A/PC-742-1	RC-4-HTRS-3	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-1	RC-4-HTRS-3	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-1	RC-4-HTRS-3	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-1	RC-4-HTRS-3	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	21	PC	EE-5
AI-109A	RC-4-HTRS-3	94-A3/LS	12280	Al-109A	56	1011	AI-41A-06	21	PC	EE-5
MCC-3A1	RC-4-HTRS-3	94/3	43399	MCC-3A1	57	1013	NA	21	PC	EE-5
MCC-3A1	RC-4-HTRS-3	M/RC-4-HTRS-3	43399	MCC-3A1	57	1013	MCC-3A1-D01	21	PC	EE-5
AC-DC-2	TCV-202	94/202	1279	AC-DC-2	77	1036	AI-41A-12	7	INV	CH
CB-1,2,3	TCV-202	TIC-202	1279	CB-1,2,3	77	1036	AI-42A-07	7	INV	CH
AI-30A(ESF)	TCV-202	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	CH
AI-30A(ESF)	TCV-202	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	CH
Al-30A(ESF)	TCV-202	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	CH
AI-30A(ESF)	TCV-202	86B1/CIAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	INV	CH
AI-30A(ESF)	TCV-202	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	CH
AI-30A(ESF)	TCV-202	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	CH
CB-1,2,3	TCV-202	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV	CH
AC-DC-1	TCV-202	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	INV	CH
CB-1,2,3	TCV-202	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-21		INV	CH
AC-DC-I	TCV-202	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-00B-01	7	INV	CH
CB-1,2,3	TCV-202	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	INV	CH
AC-DC-1	TCV-202	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	INV	CH
CB-1,2,3	TCV-202	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	CH
AC-DC-1	TCV-202	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	CH
AC-DC-1	TCV-202	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV	CH
A/PC-742-1	TCV-202	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV	CH
B/PC-742-1	TCV-202	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	CH
C/PC-742-1	TCV-202	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	CH
D/PC-742-1	TCV-202	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV	CH
A1-185	TCV-202	43A/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV	CH
AI-43A	TCV-202	742A-3	41564	AI-43A	77	1036	Al-41A-08	7	INV	CH
AI-43A	TCV-202	86/AI-43A	11564	AI-43A	77	1036	AI-41A-08	7	INV	CH
AI-33A	TCV-893	94-1/RM-050/061	9799	Al-33A	77	1036	Al-40A-15	7	AUX/CCW	AC-CCW
AI-33A	TCV-893	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	TCV-893	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	ic-ccw
A1-33A	TCV-893	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
Al-33A	TCV-893	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33B	TCV-893	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
					4 1 1 1 1 1 1	1000	70 100 19		AUACCW	ACCCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-33B	TCV-893	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	TCV-893	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
Al-30A(ESF)	TCV-893	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	TCV-893	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	TCV-893	86B1/CIAS	9807	AI-30A(ESF)	77	1036	A1-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	TCV-893	86B1/VIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-54B	TCV-893	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	TCV-893	42/46A	21846	A1-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	42X/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-893	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	5/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-893	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-893	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	94-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-893	94-2/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	94-2/VA46A	21847	Al-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-£ 93	94/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	94AXI/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-34	TCV-893	Y1S-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-35	TCV-893	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286A	TCV-893	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286B	TCV-893	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6288A	TCV-893	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	TCV-893	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
AI-54B	TCV-893	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-56	TCV-893	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-44	TCV-893	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AI-106A	TCV-893	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-893	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW
AI-33B	TCV-894	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
A!-33B	TCV-894	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	TCV-894	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	TCV-894	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	TCV-894	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	TCV-894	86A1/VIAS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-54B	TCV-894	94-25/FD	9828	AI-S4B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	TCV-894	42/46B	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
Al-106B	TCV-894	42X/VA46B	21847	AI-224B	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-894	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AJ-106B	TCV-894	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	5/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-894	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-894	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	94-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106A	TCV-894	94-2/6288A	2:847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	94-2/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106B	TCV-894	94/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	94BX1/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-34	TCV-894	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-35	TCV-894	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286A	TCV-894	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286B	TCV-894	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6288A	TCV-894	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	TCV-894	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
AI-54B	TCV-894	94-25X/FD	39723	A1-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	TCV-894	POX-5	39723	Al-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-44	TCV-894	B/94-3/VIAS	41568	AI-44	77	1036	Al-41B-10	7	AUX/CCW	AC-CCW
AI-106A	TCV-894	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	TCV-894	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	VA-46A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	VA-46A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
A1-33A	VA-46A	94-1/RM-060	9799	AI-33A	77	1036	NA	10	AUX/CCW	VA-CR
AI-33A	VA-46A	RM-050	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR
AI-33A	VA-46A	RM-051	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR
AI-33B	VA-46A	RM-060	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-33B	VA-46A	RM-061	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-33B	VA-46A	RM-062	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	VA-46A	86A/CRHS	9806	AJ-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
Al-30A(ESF)	VA-46A	86B1/VIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-54B	VA-46A	94-25/FD	9828	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
A/PC-742-1	VA-46A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
B/PC-742-1	VA-46A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
C/PC-742-1	VA-46A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
D/PC-742-1	VA-46A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	10	AUX/CCW	VA-CR
A1-224A	VA-46A	42/46A	21846	AI-224A	72	1036	NA	10	AUX/CCW	VA-CR
VA-46A	VA-46A	CRI/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
VA-46A	VA-46A	MC1/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
VA-46A	VA-46A	MS1/VA46A	21846	VA-46A	72	1036	NA	10	AUX/CCW	VA-CR
VA-46A	VA-46A	RR/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
VA-46A	VA-46A	TS/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
A1-106A	VA-46A	42X/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46A	5-1/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46A	5-1/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46A	5/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46A	94-1/6286A-6287A	21847	Al-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46A	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
A1-106A	VA-46A	94-1/6288A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
Al-106A	VA-46A	94-1/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46A	94-2/6288B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46A	94-2/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46A	94/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46A	94AX1/VIAS	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
A1-106A	VA-46A	94AX2/VIAS	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-34	VA-46A	YIS-6287A	21847	AI-34	77	1036	A1-42A-09	10	AUX/CCW	VA-CR
AI-35	VA-46A	YIS-6287B	21847	AI-35	77	1036	A1-42B-11	10	AUX/CCW	VA-CR
YIT-6286A	VA-46A	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6286B	VA-46A	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	10	AUX/CCW	VA-CR
YIT-6288A	VA-46A	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6288B	VA-46A	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
A1-54B	VA-46A	94-25X/FD	39723	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR
A1-56	VA-46A	POX-5	39723	AI-56	77	1036	NA	10	AUX/CCW	VA-CR
AI-44	VA-46A	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	10	AUX/CCW	VA-CR
AI-106A	VA-46A	33X/291	43437	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46A	33X/292	43437	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-33A	VA-46B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	VA-46B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	VA-46B	94-1/RM-060	9799	AI-33A	77	1036	NA	10	AUX/CCW	VA-CR
AI-33A	VA-46B	RM-050	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR
AI-33A	VA-46B	RM-051	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR
A1-33B	VA-46B	RM-060	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-33B	VA-46B	RM-061	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-33B	VA-46B	RM-062	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
Al-30B(ESF)	VA-46B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/VIAS	9816	AI-30B(ESF)	77	1036	A1-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/CRHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
Al-30B(ESF)	VA-46B	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AJ-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-54B	VA-46B	94-25/FD	9828	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	VA-46B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
AC-DC-I	VA-46B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40A-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
AC-DC-1	VA-46B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	10	AUX/CCW	VA-CR
A/PC-742-2	VA-46B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
B/PC-742-2	VA-46B	B/PC-742-2	9841	14'W'N-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
C/PC-742-2	VA-46B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
D/PC-742-2	VA-46B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
A1-224A	VA-46B	42/46B	21846	Al-224A	72	1036	NA	10	AUX/CCW	VA-CR
VA-46B	VA-46B	CR1/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
VA-46B	VA-46B	MCI/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
VA-46B	VA-46B	MS1/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
VA-46B	VA-46B	RR/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
VA-46B	VA-46B	TS/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
AI-106B	VA-46B	42X/VA46B	21847	A1-224B	72	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46B	5-1/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	5-1/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	5/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR VA-CR
AI-106A	VA-46B	94-1/6286A-6287A	21847	AI-106A	77	1636	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
Al-106A	VA-46B	94-1/6288A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	94-1/6288B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	94-1/VA46B	21847	AI-106B	77	1036	NA .	10	AUX/CCW	VA-CR
AI-106A	VA-46B	94-2/6288A	21847	AI-106A	77	1036	NA.	10	AUX/CCW	VA-CR
Al-106B	VA-46B	94-2/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	94/VA46B	21847	Al-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	94BX1/VIAS	21847	Al-106B	77	1036	NA	10		
AI-106B	VA-46B	94BX2/VIAS	21847	AI-106B	77	1036	NA NA	10	AUX/CCW	VA-CR
A1-34	VA-46B	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	10	AUX/CCW	VA-CR
AI-35	VA-46B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11		AUX/CCW	VA-CR
YIT-6286A	VA-46B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6286B	VA-46B	YIT-6286'3	21847	10W'D-0N'6D	77	1040	AI-42B-11	10	AUX/CCW	VA-CR
YIT-6288A	VA-46B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA NA	10	AUX/CCW	VA-CR
Y1T-6288B	VA-46B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
AI-54B	VA-46B	94-25X/FD	39723	AI-54B	77	1036	NA NA		AUX/CCW	VA-CR
	174 - 104	74 200 201 20	39123	AL-24D	12	1036	NA	10	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-56	VA-46B	POX-5	39723	AJ-56	77	1036	NA	10	AUX/CCW	VA-CR
AI-44	VA-46B	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	10	AUX/CCW	VA-CR
AI-106A	VA-46B	33X/291	43437	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	33X/292	43437	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-30A(ESF)	YCV-1045	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30*(ESF)	YCV-1045	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	DHR	MS
AI-30B(S2-1)	YCV-1045	62-2-1/FW-10	9811	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	YCV-1045	62-2-2C/FW-10	9811	AI-30B(S2-2)	77	1036	AI-40B-21	7	DHR	MS
Al-30B(S2-1)	YCV-1045	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	YCV-1045	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	Al-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
CB-1,2,3	YCV-1045	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	YCV-1045	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
CB-1,2,3	YCV-1045	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Al-40B-01	7	DHR	MS
AC-DC-1	YCV-1045	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	MS
CB-1,2,3	YCV-1045	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	DHR	MS
AC-DC-1	YCV-1045	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	DHR	MS
CB-1,2,3	YCV-1045	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	YCV-1045	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	YCV-1045	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
A/PC-742-1	YCV-1045	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	YCV-1045	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	YCV-1045	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	YCV-1045	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	YCV-1045	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	YCV-1045	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	YCV-1045	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	YCV-1045	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
AI-196	YCV-1045	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	MS
Al-197	YCV-1045	03/A-RC2A-2-1	16143	Al-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045	03/B-RC2A-1-1	16143	Ai-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	MS
Al-197	YCV-1045	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	MS
Al-198	YCV-1045	03/C-RC2A-1-1	16143	Al-198	57	1013	NA	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-198	YCV-1045	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	MS
Al-198	YCV-1045	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	MS
A1-198	YCV-1045	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	MS
Al-199	YCV-1045	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-66A	YCV-1045	A/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66A	YCV-1045	A1/RC-2A/AFWS	16143	AI-66A	77	1036	Al-41A-02	7	DHR	MS
AI-66B	YCV-1045	B/RC-2A/AFWS	16143	AI-668	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-196	YCV-1045	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045	03. A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	MS
Al-197	YCV-1045	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045	05/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045	03/B-RC2L-2-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-198	YCV-1045	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-66A	YCV-1045	A/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66A	YCV-1045	A1/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66B	YCV-1045	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-179	YCV-1045	43X/RC-2A	20260	Al-179	57	1013	EE-8G-17	7	DHR	MS
AI-66B	YCV-1045	62-2-2X/FW-10	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	94-1/1045	21423	Al-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	94-2/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	94-3/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	94-4/1045	21423	Al-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045	94/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-179	YCV-1045	CSX-A/1045A	21423	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	YCV-1045A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DFR	MS
AI-30A(ESF)	YCV-1045A	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	D:{R	MS
AI-30B(\$2-1)	YCV-1045A	62-2-1/FW-10	9811	AJ-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	YCV-1045A	62-2-2C/FW-10	9811	A1-30B(S2-2)	77	1036	AI-40B-21	7	DHR	MS
A1-30B(S2-1)	YCV-1045A	86-1/\$2-1	9814	A1-39B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	YCV-1045A	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
CB-1,2,3	YCV-1045A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	YCV-1045A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
CB-1,2,3	YCV-1045A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	MS
AC-DC-1	YCV-1045A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	MS
CB-1,2,3	YCV-1045A	C/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40C-01	7	DHR	MS
AC-DC-1	YCV-1045A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	MS
CB-1,2,3	YCV-1045A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	7	DHR	MS
AC-DC-1	YCV-1045A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	YCV-1045A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
A/PC-742-1	YCV-1045A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	YCV-1045A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	YCV-1045A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	YCV-1045A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	YCV-1045A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	YCV-1045A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	YCV-1045A	D/PC-742-1	9841	8W'N-16N 6D	59	1012	NA	7	DHR	MS
D/PC-742-2	YCV-1045A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2A-I-I	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045A	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-1-2	16143	AI-197	56	1011	NA.	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-2-1 :	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	,		
AI-198	YCV-1045A	03/C-RC2A-1-I	16143	Al-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-1-2	16143	AI-198	57	1013	NA NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-2-2	16143	AI-198	57	1013	NA NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2A-1-1		Al-199	56					MS
A1-199	FCV-1045A	03/D-RC2A-1-1	16143	AI-199	36	1011	NA	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-199	YCV-1045A	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	MS
A!-66A	YCV-IC45A	A/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	MS
A1-66A	YCV-1045A	A L/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41 A-02	7	DHR	MS
AI-66B	YCV-1045A	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	YCV-1045A	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	MS
Al-196	YCV-1045A	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	7	DHR	MS
Al-196	YCV-1045A	03/A-RC2B-2-1	16145	Al-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-1-2	16145	Al-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045 A	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	MS
A1-199	YCV-1045A	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	MS
Aĭ-199	YCV-1045A	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	MS
A1-66A	YCV-1045A	A/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66A	YCV-1045A	A1/RC-2B/AFWS	16145	AI-66A	77	1036	Al-41A-02	7	DHR	MS
AI-66B	YCV-1045A	B/RC-2B/AFWS	16145	AI-66B	77	1036	Al-41B-04	7	DHR	MS
AI-66B	YCV-1045A	B1/RC-2B/AFWS	16145	A!-66B	77	1036	AI-41B-04	7	DHR	MS
AI-179	YCV-1045A	43X/RC-2A	20260	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-66B	YCV-1045A	62-2-2X/FW-10	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94-1/1045	21423	AI-66B	77	1036	Al-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94-2/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	YCV-1045A	94-3/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94-4/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-179	YCV-1045A	CSX-A/1045A	21423	Al-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045A	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	MS
CB-10,11	YCV-1045A	94/1045C	43389	CB-10 - 11	77	1036	AI-41B-14	7	DHR	MS
AI-179	YCV-1045A	94/1045C-1	43389	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-30A(ESF)	YCV-1045B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	YCV-1045B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-30B(S2-1)	YCV-1045B	62-2-1/FW-10	9811	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	YCV-1045B	62-2-2C/FW-10	9811	AI-30B(S2-2)	77	1036	AI-40B-21	7	DHR	MS
AI-30B(S2-1)	YCV-1045B	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	YCV-1045B	86-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
CB-1,2,3	YCV-1045B	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	YCV-1045B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
CB-1,2,3	YCV-1045B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	MS
AC-DC-1	YCV-1045B	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	7	DHR	MS
CB-1,2,3	YCV-1045B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	MS
AC-DC-I	YCV-1045B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	MS
CB-1,2,3	YCV-1045B	D/PIA-192Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	YCV-1045B	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	YCV-1045B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
A/PC-742-1	YCV-1045B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	YCV-1045B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	YCV-1045B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	YCV-1045B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	YCV-1045B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	YCV-1045B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	YCV-1045B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	YCV-1045B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045B	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2A-2-2	16143	Al-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-I-I	16143	AI-197	56	1017	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-1-2	16143	Al-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-1-1	16143	Al-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-1-1	16143	Al-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-2-1	16143	A1-199	56	1011	NA	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-199	YCV-1045B	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-66A	YCV-1045B	A/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66A	YCV-1045B	A1/RC-2A/AFWS	16143	AI-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66B	YCV-1045B	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	MS
Al-197	YCV-1045B	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	MS
A1-197	YCV-1045B	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-1-2	16145	Al-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-66A	YCV-1045B	A/RC-2B/AFWS	16145	AI-66A	77	1036	AI-41A-02	7	DHR	MS
A1-66A	YCV-1045B	A1/RC-2B/AFWS	16145	Al-66A	77	1036	AI-41A-02	7	DHR	MS
AI-66B	YCV-1045B	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	YCV-1045B	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
Al-179	YCV-1045B	43X/RC-2A	20260	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-66B	YCV-1045B	62-2-2X/FW-10	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	YCV-1045B	94-1/1045	21423	AI-66B	77	1036	AI-41B-04 '	7	DHR	MS
AI-66B	YCV-1045B	94-2/1045	21423	Al-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	YCV-1045B	94-3/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	94-4/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	94/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-179	YCV-1045B	CSX-A/1045A	21423	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045B	43X/RC-2B	22125	AI-1.	57	1013	EE-8G-17	7	DHR	MS
CB-10,11	YCV-1045B	94/1045B	43389	CB-10 - 11	77	1036	Al-41B-14	7	DHR	MS
AI-179	YCV-1045B	94/1045B-1	43389	Ai-179	57	1013	EE-8G-17	7	DHR	MS
D2	YCV-871A	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871A	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6148	YCV-871A	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
RB-D2	YCV-871A	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-54B	YCV-871B	94-23/FD	9828	AI-54B	77	1036	AI-41A-09	0	AUX/EDG	VA-EDL
TC-858B	YCV-871B	TC-858B	15701	7W'D-21N'1A	64	1011	NA	0	AUX/EDG	VA-EDL
D2	YCV-871B	D2-18A-103CX	17397	D2	64	1010	NA	0	AUX/EDG	VA-EDL
D2	YCV-871B	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871B	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6048	YCV-871B	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
RB-D2	YCV-871B	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL
AI-54B	YCV-871B	94-23X/FD	39723	AI-54B	77	1036	NA	0	AUX/EDG	VA-EDL
AI-56	YCV-871B	POX-3	39723	AI-56	77	1036	NA	0	AUX/EDG	VA-EDL
AI-147	YCV-871B	94/VA-52B	41561	AI-147	64	1014	MCC-4A1	0	AUX/EDG	VA-EDL
MCC-4A1	YCV-871B	Mt/VA-52B	41561	MCC-4A1	57	1013	MCC-4A1	0	AUX/EDG	VA-EDL
MCC-4A1	YCV-871B	Mr/VA-52B	41561	MCC-4A1	57	1013	MCC-4A1	0	AUX/EDG	VA-EDL
D2	YCV-871C	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871C	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6148	YCV-871C	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
RB-D2	YCV-871C	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL
D2	YCV-871D	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871D	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6148	YCV-871D	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
RB-D2	YCV-871D	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL
D1	YCV-871E	D1-21-103BX	17397	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871E	D1-21-127E2	17398	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6048	YCV-871E	YT-6048	17398	2E'K-5N'1A	63	1014	NA	0	AUX/EDG	VA-EDL
RB-D1	YCV-871E	183-MES/D1X	23736	RB-D1	63	1007	NA	0	AUX/EDG	VA-EDL
D2	YCV-871F	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871F	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6148	YCV-871F	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
RB-D2	YCV-671F	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL
AI-30A(ESF)	YCV-871G	86AX/OPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/EDG	VA-EDL
AI-30B(ESF)	YCV-871G	86BX/OPLS	9816	AI-30B(ESF)	77	1036	AL TIP OF	0	AUX/EDG	VA-EDL
AI-54B	YCV-871G	94-32/FD	9828	AI-54B	77	1036	AI-41A-09	0	AUX/EDG	VA-EDL
AI-109A	YCV-871G	86AX2/OPLS	12280	AI-109A	56	1011	AI-41A-06	0	AUX/EDG	VA-EDL
TC-858A	YCV-871G	TC-858A	15701	7W'D-12N'1A	63	1011	NA	0	AUX/EDG	VA-EDL
1A4	YCV-871G	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	0	AUX/EDG	VA-EDL
1A4	YCV-871G	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	0	AUX/EDG	VA-EDL
1A3	YCV-871G	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	0	AUX/EDG	VA-EDL
1A4	YCV-871G	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	0	AUX/EDG	VA-EDL

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	YCV-871G	27X1/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	0	AUX/EDG	VA-EDL
CB-4 AUX	YCV-871G	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	0	AUX/EDG	VA-EDL
AI-30A(ESF)	YCV-871G	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/EDG	VA-EDL
AI-30B(ESF)	YCV-871G	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/EDG	VA-EDL
Di	YCV-871G	D1-18A-103CX	17397	DI	63	1010	NA	0	AUX/EDG	VA-EDL
DI	YCV-871G	D1-21-103BX	17397	D-I	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871G	D1-21-127E2	17398	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6048	YCV-871G	YT-6048	17398	2E'K-5N'1A	63	1014	NA	0	AUX/EDG	VA-EDL
RB-DI	YCV-871G	183-MES/DIX	23736	RB-Di	63	1007	NA	0	AUX/EDG	VA-EDL
AI-54B	YCV-871G	94-32X/FD	39723	AI-54B	77	1036	NA	0	AUX/EDG	VA-EDL
AI-56	YCV-871G	POX-4	39723	Al-56	77	1036	NA	0	AUX/EDG	VA-EDL
AI-146	YCV-871G	94/VA-52A	41561	AI-146	63	1014	MCC-3B1	0	AUX/EDG	VA-EDL
MCC-3B1	YCV-871G	MEVA-52A	41561	MCC-3B1	57	1013	MCC-3B1	0	AUX/EDG	VA-EDL
MCC-3B1	YCV-87IG	Mr/VA-52A	41561	MCC-3B1	57	1013	MCC-3B1	0	AUX/EDG	VA-EDL
AI-109B	YCV-871G	86BX2/OPLS	43388	AI-109B	56	1011	AI-41B-06	0	AUX/EDG	VA-EDL
DI	YCV-871H	D1-21-103BX	17397	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871H	D1-21-127E2	17398	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
YT-6048	YCV-871H	YT-6048	17398	2E'K-5N'1A	63	1014	NA	0	AUX/EDG	VA-EDL
RB-DI	YCV-871H	183-MES/D1X	23736	RB-DI	63	1007	NA	0	AUX/EDG	VA-EDL

RELAY EVALUATION REPORT

APPENDIX B-2.

A-46 ASSOCIATED RELAY LIST (ARL) (SORTED BY RELAY)

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
Al-196	1A3-16	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	HCV-1107A	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1107B	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	YCV-1045	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	MS
Aî-196	YCV-1045A	03/A-RC2A-1-1	16143	AI-196	57	1013	NA.	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2A-1-1	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	1A3-16	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
Al-196	HCV-1107A	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1107B	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	YCV-1045	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2A-1-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	1A3-16	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1107A	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/A-RC2A-2-1	16143	AI-196	57	1013	NA	7	DHR	MS
AI-197	YCV-1045A	03/A-RC2A-2-1	16143	AI-196	57	1013	HA.	7	DHR	MS
AI-197	YCV-1045B	03/A-RC2A-2-1	16143	AI-196	57	1. 1	NAME OF TAXABLE	7	DHR	MS
AI-196	1A3-16	03/A-RC2A-2-2	16143	AI-196	57	10.7		3	AUX/EE	FW-AFW
AI-196	HCV-1107A	03/A-RC2A-2-2	16143	AI-196	57	. 184	NA	7	DHR	FW-AFW
AI-196	HCV-1107B	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	YCV-1045	03/A-RC2A-2-2	16143	AI-196	57	1913	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2A-2-2	16143	AI-196	57	1013	NA	7	DHR	MS
AI-196	1A3-16	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	HCV-1108A	03/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	02/A-RC2B-1-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	YCV-1045	03/A- xC2B-1-1	16145	AI-196	57	1013	NA .	7	DHR	MS
AI-196	YCV-1045A	03/A-k-C2B-1-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2* i-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	1A3-16	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	HCV-1108A	03/A-RC2B-1-2	1614	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	2	DHR	FW-AFW
AI-196	YCV-1045	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	7	DHR	MS MS
AI-196	YCV-1045A	03/A-RC2B-1-2	16145	Al-196	57	1013	NA	7	DHR	MS MS
AI-196	YCV-1045B	03/A-RC2B-1-2	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	1A3-16	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
AI-196	HCV-1108A	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-196	YCV-1045	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045B	03/A-RC2B-2-1	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	1A3-16	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	3	AUX/EE	FW-AFW
Ař-196	HCV-1108A	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	FW-AFW
AI-196	HCV-1108B	03/A-RC2B-2-2	16145	Al-196	57	1013	NA	7	DHR	FW-AFW
AI-196	YCV-1045	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	MS
AI-196	YCV-1045A	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	MS
Al-196	YCV-1045B	03/A-RC2B-2-2	16145	AI-196	57	1013	NA	7	DHR	MS
AI-197	1A3-16	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-1-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	1A3-16	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-I-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
A1-197	YCV-1045	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-1-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	1A3-16	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2A-2-1	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	1A3-16	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1107A	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1107B	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2A-2-2	16143	Al-197	56	1011	NA	7	DHR	MS
A1-197	YCV-1045B	03/B-RC2A-2-2	16143	AI-197	56	1011	NA	7	DHR	MS
AI-197	1A3-16	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-1-1	16145	A1-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-1-i	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2B-1-1	16145	AI-197	56	1011	NA	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-197	1A3-16	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-1-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2B-1-2	16145	Al-197	56	1011	NA	7	DHR	MS
AI-197	1A3-16	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2B-2-1	16145	AI-197	56	1011	NA	7	DHR	MS
Al-197	1A3-16	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	3	AUX/EE	FW-AFW
AI-197	HCV-1108A	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	HCV-1108B	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	FW-AFW
AI-197	YCV-1045	03/B-RC2B-2-2	16145	AI-197	56	1011	NA	7	DHR	MS
AI-197	YCV-1045A	03/B-RC2B-2-2	16145	AI-197	56	1011	NA.	7	DHR	MS
AI-197	YCV-1045B	03/B-RC2B-2-2	16145	A1-197	56	1011	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2A-I-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-1-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	IA3-16	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
Al-198	HCV-1107B	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-1-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2A-2-1	16143	Al-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-2-1	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1107A	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1107B	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-198	YCV-1045	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2A-2-2	16143	AI-198	57	1013	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1108A	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-1-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1108A	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-1-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1108A	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-2-1	16145	Ai-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-2-1	16145	AI-198	57	1013	NA	7	DHR	MS
AI-198	1A3-16	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	3	AUX/EE	FW-AFW
AI-198	HCV-1108A	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	HCV-1108B	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	FW-AFW
AI-198	YCV-1045	03/C-RC2B-2-2	16145	Al-198	57	1013	NA	7	DHR	MS
AI-198	YCV-1045A	03/C-RC2B-2-2	16145	AI-198	57	1013	NA.	7	DHR	MS
AI-198	YCV-1045B	03/C-RC2B-2-2	16145	AI-198	57	1013	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-1-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	MS
A1-199	YCV-1045A	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-1-2	16143	AI-199	56	1011	NA	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-199	1A3-16	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-2-1	16143	Al-199	56	1011	NA	7	DHR	FW-AFW
Al-199	YCV-1045	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-2-1	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1107A	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1107B	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2A-2-2	16143	AI-199	56	1011	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-1-1	16145	AI-199	56	1011	NA.	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	MS
Al-199	YCV-1045A	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-1-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-1-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-2-1	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	1A3-16	03/D-RC2B-2-2	16145	Al-199	56	1011	NA	3	AUX/EE	FW-AFW
AI-199	HCV-1108A	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	HCV-1108B	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	FW-AFW
AI-199	YCV-1045	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045A	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	MS
AI-199	YCV-1045B	03/D-RC2B-2-2	16145	AI-199	56	1011	NA	7	DHR	MS
RB-DI	YCV-871E	183-MES/D1X	23736	RB-DI	63	1007	NA	0	AUX/EDG	VA-EDL
RB-DI	YCV-871G	183-MES/D1X	23736	RB-D1	63	1007	NA	0	AUX/EDG	VA-EDL
RB-DI	YCV-871H	183-MES/DIX	23736	RB-D1	63	1007	NA	0	AUX/EDG	VA-EDL

RB-D2	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
BB-D2 YCV-871C ISS-MES/D2X 23737 RB-D2 64 1007 NA 0 AUX-EDG VA-EDL	RB-D2	YCV-871A	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL
RB-D2	RB-D2	YCV-871B	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	VA-EDL
RB-D2 VCV-87ID R8-MSD2X 23737 R8-D2 64 1007 NA 0 AUXEDG VA-EDL RB-D2 VCV-87IF 183 MSI 23737 R8-D2 64 1007 NA 0 AUXEDG VA-EDL Al-109B RC-4HTRS-10 183X1 4388 Al-109B 56 1011 Al-41B-06 21 PC ES-5 Al-109B RC-4HTRS-12 183X1 43388 Al-109B 56 1014 Al-41B-06 21 PC ES-5 Al-109B 1A4-1 183X3 43388 Al-109B 56 1014 Al-41B 3 AUXEE ES-4 Al-109B 1A4-9 183X4 43388 Al-109B 56 1014 Al-41B 3 AUXEE ES-4A Al-109B 1A4-8 183X5 43388 Al-109B 56 1014 Al-41B 3 AUXEE ES-4A Al-109B 1B4-1B4B 183X8 43388 Al-109B 56	RB-D2	YCV-871C	183-MES/D2X	23737	RB-D2	64	1007	NA	0		
RB-D2 VCV-87IF 83-MIS-DIZX 23737 RB-D2 64 1007 NA 0 ALIXEDG VA-EDL ALIOBB RC4-HTRS-10 183X1 4338 ALI-09B 56 1011 ALI-41B-06 21 PC EE-5 ALI-09B RC4-HTRS-11 183X1 4338 ALI-09B 56 1011 ALI-41B-06 21 PC EE-5 ALI-09B RC4-HTRS-12 183X1 4338 ALI-09B 56 1011 ALI-41B-06 21 PC EE-5 ALI-09B RC4-HTRS-12 183X1 4338 ALI-09B 56 1014 ALI-41B 3 ALIXEE DG ALI-09B ALI-	RB-D2	YCV-871D	183-MES/D2X	23737	RB-D2	64	1007	NA	0	AUX/EDG	
Al-109B RC-4-HTRS-10 183X1 43388 Al-109B 56 1011 Al-41B-06 21 PC EE-5	RB-D2	YCV-871F	183-MES/D2X	23737	RB-D2	64	1007	NA	0		
A-1-1098 RC-4-HTRS-12 183X1 4338 A1-1098 56 1011 A1-41B-06 21 PC E-5	AI-109B	RC-4-HTRS-10	183X1	43388	AI-109B	56	1011	AI-41B-06	21	PC	
Al-109B RC4-HTRS-12 183X1 43388 Al-109B 56 1014 Al-41B-06 21 PC E-5	AI-109B	RC-4-HTRS-11	183X1	43388	AJ-109B	56	1011	AI-41B-06	21		
Al-109B 1A4-1	AI-109B	RC-4-HTRS-12	183X1	43388	AI-109B	56	1011	AI-41B-06	21		EE-5
Al-109B IA4-10 I33X4	Ai-109B	1A4-1	183X3	43388	AI-109B	56	1014	AI-41B	3		DG
Al-109B	AI-109B	1A4-10	183X4	43388	AI-109B	56	1014	AI-41B	3		
Al-109B	AI-109B	1A4-9	183X4	43388	AI-109B	56	1014	AI-41B	3	AUX/EE	
Al-109B 1A4-8 183X6 43388 Al-109B 56 1014 Al-41B 2 ALVÆE EE-4B Al-109B 1B4A-1B4A 183X7 43388 Al-109B 56 1014 Al-41B 2 ALVÆE EE-4B Al-109B 1B4B-1B4B 183X8 43388 Al-109B 56 1014 Al-41B 2 ALVÆE EE-4B Al-109B 1B4C-1B4C 183X9 43388 Al-109B 56 1014 Al-41B 2 ALVÆE EE-4B Al-109B 1B4C-1B4C 183X9 43388 Al-109B 56 1014 Al-41B 2 ALVÆE EE-4B Al-133A 1A3-20 1CRØD1 6622 D-1 57 1019 NA 17 ALVÆEØ DG Al-133B 1A4-1 1CRØD2 6622 D-2 57 1019 NA 17 ALVÆEØ DG Al-133B 1A4-1 1CRØD2 6622 D-2 57 1019 NA 17 ALVÆEØ DG Al-133B DG-2 1CRØD1 17397 D-1 57 1019 NA 3 ALVÆE DG DI 1A3-20 1CRØD1 17397 D-1 57 1019 NA 3 ALVÆE DG DD DG-1 1CRØD1 17397 D-1 57 1019 NA 3 ALVÆEØ DG DD DG-1 1CRØD2 17397 D-2 57 1019 NA 3 ALVÆEØ DG DD DG-2 1CRØD2 17397 D-2 57 1019 NA 3 ALVÆEØ DG DA DG-2 1CRØD2 17397 D-2 57 1019 NA 17 ALVÆDØ DG DA ATA-D1 1VATA-D1 41898 2WD-0N*1A 63 1013 MCC-3B1 20 ALVÆEØ DG ATA-D2 1VATA-D2 41898 3WD-0N*2A 64 1013 MCC-4A1 20 ALVÆEØ DG ATA-D2 1A4-1 27-V1A2 17240 1A2-04 56 1011 1A3 3 ALVÆEØ DG ATA-D3 1A3-10 27-V1A3 9397 1A3-04 56 1011 1A3 3 ALVÆEØ DG ATA-D3 1A3-16 27-V1A3 9397 1A3-04 56 1011 1A3 3 ALVÆEØ CH ATA-D3 1A3-6 27-V1A3 9397 1A3-04 56 1011 1A3 2 ALVÆØ CH ATA-D3 1B3B-4 27-V1A3 9397 1A3-04 56 1011 1A3 2 ALVÆØ CH ATA-D3 1B3B-4 27-V1A3 9397 1A3-04 56 1011 1A3 2 ALVÆØ CH ATA-D3 1B3B-4 27-V1A3 9397 1A3-04 56 1011 1A3 2 ALVÆØ CH ATA-D3 1B3B-4 27-V1A3 9397 1A3-04 56 1011 1A3 2 ALVÆØ CH ATA-D3 1B3B-4 27-V1A3 9397 1A3-04 56 1011 1A3 2 ALVÆØ CH ATA-D3 1B3B-4	AI-109B	1A4-9	183X5	43388	Al-109B	56	1014	Al-41B	3		
Al-109B 1B4A-1B4A 183X7 43388 Al-109B 56 1014 Al-41B 2 AUX'EE EE-4B Al-109B 1B4B-1B4B 183X8 43388 Al-109B 56 1014 Al-41B 2 AUX'EE EE-4B Al-109B 1B4C-1B4C 183X9 43388 Al-109B 56 1014 Al-41B 2 AUX'EE EE-4B Al-133A IA3-20 ICR/DI 6622 D-1 57 1019 NA 3 AUX'EE DG Al-133B IA4-1 ICR/DI 6622 D-1 57 1019 NA 17 AUX'EDG DG Al-133B IA4-1 ICR/D2 6622 D-2 57 1019 NA 3 AUX'EE DG Al-133B DG-2 ICR/D2 6622 D-2 57 1019 NA 3 AUX'EE DG DI IA3-20 ICRX/D1 17397 D-1 57 1019 NA 3 AUX'EE DG DI DG-1 ICRX/D1 17397 D-1 57 1019 NA 3 AUX'EE DG DD DG-1 ICRX/D2 17397 D-2 57 1019 NA 3 AUX'EE DG DD DG-2 ICRX/D2 17397 D-2 57 1019 NA 3 AUX'EE DG DD DG-2 ICRX/D2 17397 D-2 57 1019 NA 3 AUX'EE DG DA-1A-D1 IV/ATA-D1 41898 3W'D-0N'2A 64 1013 MCC-481 20 AUX'EE DG ATA-D2 ATA-D1 IV/ATA-D2 41898 3W'D-0N'2A 64 1013 MCC-4A1 20 AUX'EE DG ATA-D2 ATA-D1 IV/ATA-D2 41898 3W'D-0N'2A 64 1013 MCC-4A1 20 AUX'EE DG ATA-D2 ATA-D2 IV/ATA-D2 41898 3W'D-0N'2A 64 1013 MCC-4A1 20 AUX'EE DG ATA-D3 IA3-10 27-1/IA3 9397 IA3-04 56 1011 IA3 3 AUX'EE DG ATA-D4 IA3-16 27-1/IA3 9397 IA3-04 56 1011 IA3 3 AUX'EE DG ATA-D3 IA3-16 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX'EE DG ATA-D3 IA3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX'EE DG ATA-D3 IB3B-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX'EE DG ATA-D3 IB3B-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX'EE DG ATA-D3 IB3B-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX'EE DG ATA-D4 IB3B-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX'EE DG ATA-D5 IA3 IB3B-4 27-1/IA3 9397 IA3-04 56 101	AI-109B	1A4-8	183X6	43388	AI-109B	56	1014	AI-41B	3		
Al-109B	AI-109B	1B4A-1B4A	183X7	43388	AI-109B	56	1014	AI-41B	2		
Al-109B	AI-109B	1B4B-1B4B	183X8	43388	AI-109B	56	1014	Al-41B	2		
Al-133A 1A3-20 1CR/D1 6622 D-1 57 1019 NA 3 AUX/EE DG	AI-109B	1B4C-1B4C	183X9	43388	AI-109B	56	1014	AI-41B	2		
Al-133A DG-1 ICR/DI 6622 D-1 57 1019 NA 17 AUX/EDG DG Al-133B IA4-1 ICR/D2 6622 D-2 57 1019 NA 3 AUX/EE DG Al-133B DG-2 ICR/D2 6622 D-2 57 1019 NA 17 AUX/EDG DG D1 IA3-20 ICR/D1 17397 D-1 57 1019 NA 3 AUX/EE DG D1 DG-1 ICRX/D1 17397 D-1 57 1019 NA 17 AUX/EDG DG D2 IA4-1 ICRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG D2 DG-2 ICRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG D3 DG-2 ICRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG ATA-D1 ATA-D1 IV/ATA-D1 41898 2W/D-0N*1A 63 1013 MCC-3B1 20 AUX/EE DG ATA-D2 ATA-D2 IV/ATA-D2 41898 3W/D-0N*2A 64 1013 MCC-3B1 20 AUX/EE DG IA2 IA4-1 27-1/IA2 7240 1A2-04 56 1011 IA2 3 AUX/EE DG IA3 IA3-10 27-1/IA3 9397 IA3-04 56 1011 IA3 3 AUX/EE DG IA3 IA3-16 27-1/IA3 9397 IA3-04 56 1011 IA3 3 AUX/EE DG IA3 IA3-9 27-1/IA3 9397 IA3-04 56 1011 IA3 3 AUX/EE DG IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE DG IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE DG IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE DG IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE DG IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE DG IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH IA3 IB3-4 27-1/IA3 9397 IA3-04 56 1011 IA3 2 AUX/EE CH	AI-133A	1A3-20	ICR/DI	6622	D-1	57	1019				
Al-133B	AI-133A	DG-1	ICR/DI	6622	D-1	57	1019	NA	17		
Al-133B DG-2 ICR/D2 6622 D-2 57 1019 NA 17 AUX/EDG DG	AI-133B	IA4-1	1CR/D2	6622	D-2	57	1019	NA	3		
DI IA3-20 ICRX/DI 17397 D-I 57 1019 NA 3 AUX/EE DG DI DG-1 ICRX/DI 17397 D-I 57 1019 NA 17 AUX/EDG DG D2 IA4-I ICRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG D2 DG-2 ICRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG ATA-DI IV/ATA-DI 41898 2W/D-ON*IA 63 1013 MCC-3BI 20 AUX/EE DG ATA-D2 ATA-D2 41898 3W/D-ON*2A 64 1013 MCC-4AI 20 AUX/EE DG 1A2 1A4-1 27-I/IA2 7°240 1A2-04 56 1011 1A2 3 AUX/EE DG 1A3 1A3-10 27-I/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE FW-AFW	AI-133B	DG-2	ICR/D2	6622	D-2	57	1019	NA	17		
DI DG-1 ICRX/D1 17397 D-1 57 1019 NA 17 AUX/EDG DG D2 1A4-1 1CRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG D2 DG-2 1CRX/D2 17397 D-2 57 1019 NA 17 AUX/EDG DG ATA-D1 ATA-D1 1V/ATA-D1 41898 3W/D-0N*1A 63 1013 MCC-3B1 20 AUX/EE DG ATA-D2 ATA-D2 1V/ATA-D2 41898 3W/D-0N*2A 64 1013 MCC-3B1 20 AUX/EE DG 1A2 1A4-1 27-1/1A2 17240 1A2-04 56 1011 1A2 3 AUX/EE DG 1A2 DG-2 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW	DI	1A3-20	ICRX/DI	17397	D-1	57	1019	NA			
D2 DG-2 ICRX/D2 17397 D-2 57 1019 NA 3 AUX/EE DG D2 DG-2 ICRX/D2 17397 D-2 57 1019 NA 17 AUX/EDG DG ATA-D1 ATA-D1 IV/ATA-D1 41898 2W'D-0N'1A 63 1013 MCC-3B1 20 AUX/EE DG ATA-D2 ATA-D2 IV/ATA-D2 41898 3W'D-0N'2A 64 1013 MCC-4A1 20 AUX/EE DG IA2 IA4-1 27-I/IA2 7240 1A2-04 56 1011 1A2 3 AUX/EE DG IA3 IA3-10 27-I/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW IA3 IA3-16 27-I/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 IA3-9 27-I/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 IB3A-4 27-I/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 IB3A-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CCW IA3 IB3B-4B-5 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4B-5 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4B-5 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 IB3B-4B-5 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CCW IA3 IB3B-4B-5 27-I/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CCW	DI	DG-1	ICRX/DI	17397	D-1	57		NA			
D2 DG-2 ICRX/D2 17397 D-2 57 1019 NA 17 AUX/EDG DG ATA-D1 ATA-D1 1V/ATA-D1 41898 2W/D-0N°1A 63 1013 MCC-3B1 20 AUX/EE DG ATA-D2 ATA-D2 1V/ATA-D2 41898 3W/D-0N°2A 64 1013 MCC-4A1 20 AUX/EE DG IA2 1A4-1 27-1/1A2 7°240 1A2-04 56 1011 1A2 3 AUX/EE DG IA3 1A3-10 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG IA3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE DG IA3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE DG IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH IA3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH	D2	1A4-I	ICRX/D2	17397	D-2	57	1019	NA			
ATA-DI ATA-DI IV/ATA-DI 41898 2W'D-0N'IA 63 1013 MCC-3B1 20 AUX/EE DG ATA-D2 ATA-D2 1V/ATA-D2 41898 3W'D-0N'2A 64 1013 MCC-4A1 20 AUX/EE DG 1A2 1A4-1 27-1/IA2 7240 1A2-04 56 1011 1A2 3 AUX/EE DG 1A2 DG-2 27-1/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-10 27-1/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-20 27-1/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1B3A-4 27-1/IA3 9397 1A3-04 56 1011 1A3 3 AUX/EE CH 1A3 1B3A-7 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/IA3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3C-4C-4 27-1/IA3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	D2	DG-2	1CRX/D2	17397	D-2	57	1019	NA			
ATA-D2 ATA-D2 IV/ATA-D2 41898 3W'D-0N'2A 64 1013 MCC-4A1 20 AUX/EE DG 1A2 1A4-1 27-1/1A2 7240 1A2-04 56 1011 1A2 3 AUX/EE DG 1A3 DG-2 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-RW 1A3 1B3A-7 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	ATA-Di	ATA-DI	IV/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1			
1A2 1A4-1 27-1/1A2 7240 1A2-04 56 1011 1A2 3 AUX/EE DG 1A2 DG-2 27-1/1A2 57240 1A2-04 56 1011 1A2 17 AUX/EDG DG 1A3 1A3-10 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 <td>ATA-D2</td> <td>ATA-D2</td> <td>1V/ATA-D2</td> <td>41898</td> <td>3W'D-0N'2A</td> <td>64</td> <td>1013</td> <td></td> <td></td> <td></td> <td></td>	ATA-D2	ATA-D2	1V/ATA-D2	41898	3W'D-0N'2A	64	1013				
1A2 DG-2 27-1/1A2 57240 1A2-04 56 1011 1A2 17 AUX/EDG DG 1A3 1A3-10 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE FW-AFW 1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3	1A2	1A4-1	27-1/1A2	7240	1A2-04	56	1011	1A2			
1A3 1A3-10 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE FW-AFW 1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CRW 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CC 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397	1A2	DG-2	27-1/1A2	57240	1A2-04	56	1011	1A2	17		
1A3 1A3-16 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE FW-AFW 1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CCCW 1A3 1B3C-4C-4 27-1/1A3 93	1A3	1A3-10	27-1/1A3	9397	1A3-04	56	1011	1A3			
1A3 1A3-20 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE DG 1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CCW 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3C-4C-4 27-1/1A3	1A3	1A3-16	27-1/1A3	9397	1A3-04	56	1011	1A3	3		
1A3 1A3-9 27-1/1A3 9397 1A3-04 56 1011 1A3 3 AUX/EE AC-RW 1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3A-7 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EE AC-CCW	1A3	1A3-20	27-1/1A3	9397	1A3-04	56	1011	1A3	3		
1A3 1B3A-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3A-7 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	1A3	1A3-9	27-1/1A3	9397	1A3-04	56	1011	1A3	3		
1A3 1B3A-7 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE VA-CON 1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	1A3	1B3A-4	27-1/1A3	9397	1A3-04		1011		2		
1A3 1B3B-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	1A3	1B3A-7	27-1/1A3	9397	IA3-04	56	1011				
1A3 1B3B-4B-5 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE CH 1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	1A3	1B3B-4	27-1/1A3	9397	1A3-04	56					
1A3 1B3C-4C-4 27-1/1A3 9397 1A3-04 56 1011 1A3 2 AUX/EE AC-CCW 1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	1A3	1B3B-4B-5	27-1/1A3	9397	1A3-04	56	1011	1A3			
1A3 DG-1 27-1/1A3 9397 1A3-04 56 1011 1A3 17 AUX/EDG DG	1A3	1B3C-4C-4	27-1/1A3	9397	1A3-04	56					
	1A3	DG-1	27-1/1A3	9397	1A3-04	56	1011				
	1A4	1A4-1	27-1/1A4	9398	1A4-17	56	1011	IA4		AUX/EE	DG

9/8/95

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1A4	1A4-11	27-1/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	27-1/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1B3B-4B-5	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	CH
1A4	1B3C-4C-4	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
IA4	1B4A-1	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EF	AC-CCW
1A4	1B4C-6	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	СН
1A4	1B4C-8	27-1/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	VA-CON
1A4	DG-2	27-1/1A4	9398	1A4-17	56	1011	1A4	17	AUX/EDG	DG
1B3A	1B3A-4	27-1/1B3A	12254	1B3A	56	1011	1B3A	2	AUX/EE	CH
1B3A	1B3A-7	27-1/1B3A	12254	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3B	1B3B-4	27-1/1B3B	57305	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4B-5	27-1/1B3B-4B	57305	1B3B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3C-4C	1B3C-4C-4	27-1/1B3C-4C	57308	1B3C-4C	56	1011	IB3C-4C	2	AUX/EE	AC-CCW
1B4A	1B4A-1	27-1/1B4A	12254	1B4A	56	1011	1B4A	2	AUX/EE	AC-CCW
1B4C	1B4C-6	27-1/1B4C	57308	1B4C	56	1011	1B4C	2	AUX/EE	CH
AI-133A	1A3-20	27-1/D1	9808	AI-133A	63	1007	NA	3	AUX/EE	DG
AI-133B	1A4-1	27-1/D2	9818	AI-133B	64	1007	NA	3	AUX/EE	DG
Ai-30A(S1-1)	1A3-10	27-1/S1-1	9804	AI-30A(SI-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-16	27-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(S1-1)	1A3-9	27-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1B3A-4	27-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(SI-1)	1B3A-7	27-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(S1-2)	1A3-10	27-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-16	27-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30A(S1-2)	1A3-9	27-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(S1-2)	1B3A-4	27-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(S1-2)	1B3A-7	27-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
AI-30B(S2-1)	1A4-11	27-1/S2-1	9814	A1-30B(S2-1)	77	1036	Al-41B-06 '	3	AUX/EE	AC-RW
AI-30B(S2-1)	1A4-12	27-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(S2-1)	1B4A-1	27-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-36	2	AUX/EE	AC-CCW
AI-30B(S2-2)	1A4-11	27-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(S2-2)	1A4-12	27-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(S2-2)	1B4A-1	27-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30A(S1-1)	1B3B-4	27-1X/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-1)	1B3B-4B-5	27-1X/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	СН
AI-30A(S1-1)	1B3C-4C-4	27-1X/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-2)	1B3B-4	27-1X/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(S1-2)	1B3B-4B-5	27-1X/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	СН
AI-30A(S1-2)	1B3C-4C-4	27-1X/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(S2-1)	1B3B-4B-5	27-1X/S2-1	9814	Al-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	СН
AI-30B(\$2-1)	1B3C-4C-4	27-1X/S2-1	9814	AI-30B(S2-1)	77	1036	Al-41B-06	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B4C-6	27-1X/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(S2-1)	1B4C-8	27-1X/S2-1	9814	AI-30B(S2-1)	77	1036	Al-41B-06	2	AUX/EE	VA-CON
AI-30B(S2-2)	1B3B-4B-5	27-1X/S2-2	9815	AI-30B(S2-2)	77	1036	Aĭ-41A-13	2	AUX/EE	CH
AI-30B(S2-2)	1B3C-4C-4	27-1X/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(S2-2)	1B4C-6	27-1X/S2-2	9815	A1-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	СН
AI-30B(S2-2)	1B4C-8	27-1X/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	VA-CON
AI-30A(D1)	1A3-20	27-1XA/DI	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(D1)	DG-1	27-1XA/DI	9808	AI-30A(D1)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30B(D2)	1A4-1	27-1XA/D2	9818	AI-30B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(D2)	DG-2	27-1XA/D2	9818	AI-30B(D2)	77	1036	AI-41A-13	17	AUX/EDG	DG
1A2	1A4-1	27-2/1A2	57240	1A2-04	56	1011	1A2	3	AUX/EE	DG
1A2	DG-2	27-2/1A2	57240	1A2-04	56	1011	1A2	17	AUX/EDG	DG
1A3	1A3-10	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-16	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-20	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	DG
1A3	1A3-9	27-2/1A3	9397	1A3-04	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1B3A-4	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	CH
1A3	1B3A-7	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	VA-CON
1A3	1B3B-4	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	AC-CCW
1A3	1B3B-4B-5	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	СН
1A3	1B3C-4C-4	27-2/1A3	9397	1A3-04	56	1011	1A3	2	AUX/EE	AC-CCW
1A3	DG-1	27-2/1A3	9397	1A3-04	56	1011	1A3	17	AUX/EDG	DG
IA4	1A4-1	27-2/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	DG
1A4	IA4-11	27-2/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	27-2/1A4	9398	1A4-17	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1B3B-4B-5	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	CH
1A4	1B3C-4C-4	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	AC-CCW
1A4	1B4C-6	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	СН
1A4	1B4C-8	27-2/1A4	9398	1A4-17	56	1011	1A4	2	AUX/EE	VA-CON
1A4	DG-2	27-2/1A4	9398	1A4-17	56	1011	1A4	17	AUX/EDG	DG
1B3A	1B3A-4	27-2/1B3A	12254	1B3A	56	1011	1B3A	2	AUX/EE	CH
1B3A	1B3A-7	27-2/1B3A	12254	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3B	1B3B-4	27-2/1B3B	57305	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B	1B3B-4B-5	27-2/1B3B-4B	57305	1B3B	56	1011	1B3B-4B	2	AUX/EE	СН
1B3C-4C	1B3C-4C-4	27-2/1B3C-4C	57308	IB3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B4A	IB4A-I	27-2/1B4A	12254	1B4A	56	1011	IB4A	2	AUX/EE	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1B4C	1B4C-6	27-2/1B4C	57308	1B4C	56	1011	1B4C	2	AUX/EE	CH
Al-133A	1A3-20	27-2/D1	9808	AI-133A	63	1007	NA	3	AUX/EE	DG
AI-133B	1A4-1	27-2/D2	9818	AI-133B	64	1007	NA	3	AUX/EE	DG
AI-30A(D1)	1A3-20	27-2XB/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	3	AUX/EE	DG
AI-30A(D1)	DG-1	27-2XB/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30B(D2)	1A4-1	27-2XB/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	3	AUX/EE	DG
A1-30B(D2)	DG-2	27-2XB/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-23A	1A3-20	27-3X/1A3	57238	AI-23A	77	1036	Al-41A-16	3	AUX/EE	DG
AI-23A	DG-1	27-3X/1A3	57238	AJ-23A	77	1036	AI-41A-16	17	AUX/EDG	DG
A1-25A	1A4-1	27-3X/1A4	57240	A1-25A	77	1036	AI-41B-16	3	AUX/EE	DG
AI-25A	DG-2	27-3X/1A4	57240	AI-25A	77	1036	AI-41B-16	17	AUX/EDG	DG
1B3A	1B3A-4	27-T1/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	CH
1B3A	1B3A-7	27-T1/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3B	1B3B-4	27-T1/1B3B	57305	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3B-4B	1B3B-4B-5	27-T1/1B3B-4B	57305	1B3B-4B	56	1011	EE-8G	2	AUX/EE	CH
1B3C-4C	1B3C-4C-4	27-T1/1B3C-4C	57308	1B3C-4C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B4A	1B4A-1	27-T1/1B4A	12254	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B4C	1B4C-6	27-TI/1B4C	57308	IB4C	56	1011	EE-8G	2	AUX/EE	CH
1B4C	1B4C-8	27-T1/1B4C	57308	1B4C	56	1011	EE-8G	2	AUX/EE	VA-CON
1A4	1A3-10	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
1A4	1A3-16	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	FW-AFW
1A4	1A3-20	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	DG
1A4	1A3-9	27-TI/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
1A4	1A4-1	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	DG
IA4	1A4-11	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
IA4	1A4-12	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	3	AUX/EE	AC-RW
1A4	1B3A-4	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	СН
1A4	1B3A-7	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	VA-CON
1A4	1B3B-4	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	AC-CCW
1A4	1B3B-4B-5	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	CH
1A4	1B3C-4C-4	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	AC-CCW
1A4	1B4C-6	27-TI/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	CH
1A4	1B4C-8	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	2	AUX/EE	VA-CON
1A4	DG-1	27-TI/OPLS-A	16951	1A4-19	56	1011	EE-8B	17	AUX/EDG	DG
IA4	DG-2	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	17	AUX/EDG	DG
1A4	YCV-871G	27-T1/OPLS-A	16951	1A4-19	56	1011	EE-8B	0	AUX/EDG	VA-EDL
1A4	1A3-10	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUXÆE	AC-RW
1A4	1A3-16	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
IA4	1A3-20	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	DG
1A4	1A3-9	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A4-1	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	DG
IA4	1A4-11	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A4-12	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	3	AUX/EE	AC-RW
1A4	1B3A-4	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	CH
1A4	1B3A-7	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	VA-CON
1A4	1B3B-4	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B3B-4B-5	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	СН
1A4	1B3C-4C-4	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B4C-6	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	СН
1A4	1B4C-8	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	2	AUX/EE	VA-CON
1A4	DG-1	27-T1/OPLS-B	16951	IA4-17	56	1011	NA	17	AUX/EDG	DG
1A4	DG-2	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	17	AUX/EDG	DG
1A4	YCV-87IG	27-T1/OPLS-B	16951	1A4-17	56	1011	NA	0	AUX/EDG	VA-EDL
1A3	1A3-10	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A3	1A3-16	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	FW-AFW
1A3	1A3-20	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	DG
1A3	1A3-9	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A3	1A4-1	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	DG
1A3	1A4-11	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A3	1A4-12	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	3	AUX/EE	AC-RW
1A3	1B3A-4	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	СН
1A3	1B3A-7	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	VA-CON
1A3	1B3B-4	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	AC-CCW
1A3	1B3B-4B-5	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	СН
1A3	1B3C-4C-4	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	AC-CCW
1A3	1B4A-1	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	AC-CCW
1A3	1B4C-6	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	CH
1A3	IB4C-8	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	2	AUX/EE	VA-CON
1A3	DG-1	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	17	AUX/EDG	DG
1A3	DG-2	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	:7	AUX/EDG	DG
1A3	YCV-871G	27-T1/OPLS-C	16951	1A3-2	56	1011	NA	0	AUX/EDG	VA-EDL
1A4	1A3-10	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A3-16	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	FW-AFW
1A4	1A3-20	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	DG
1A4	1A3-9	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A4-1	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1A4	1A4-11	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
1A4	1A4-12	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	3	AUX/EE	AC-RW
1A4	1B3A-4	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	CH
IA4	1B3A-7	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	VA-CON
IA4	1B3B-4	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B3B-4B-5	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	CH
1A4	1B3C-4C-4	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B4A-1	27-TI/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	AC-CCW
1A4	1B4C-6	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	CH
1A4	1B4C-8	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	2	AUX/EE	VA-CON
1A4	DG-1	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	17	AUX/EDG	DG
1A4	DG-2	27-T1/OPLS-D	16951	iA4-19	56	1011	NA	17	AUX/EDG	DG
1A4	YCV-871G	27-T1/OPLS-D	16951	1A4-19	56	1011	NA	0	AUX/EDG	VA-EDL
AI-26A	1A4-1	27T1/1A2	57240	AI-26A	77	1036	AI-41B-16	3	AUX/EE	DG
AI-26A	DG-2	27T1/1A2	57240	AI-26A	77	1036	AI-41B-16	17	AUX/EDG	DG
AI-24A	1A3-10	27T1/1A3	9397	AI-24A	77	1036	Al-41A-16	3	AUX/EE	AC-RW
AI-24A	1A3-16	27T1/1A3	9397	Al-24A	77	1036	AI-41A-16	3	AUX/EE	FW-AFW
AI-24A	1A3-9	27T1/1A3	9397	A1-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-24A	1B3A-4	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	CH
AI-24A	1B3A-7	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	VA-CON
A1-24A	1B3B-4	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
AI-24A	1B3B-4B-5	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	CH
AI-24A	1B3C-4C-4	27T1/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
AI-25A	1A4-11	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
A1-25A	1A4-12	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-25A	1B3B-4B-5	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	CH
AI-25A	1B3C-4C-4	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-25A	1B4A-1	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-25A	1B4C-6	27T1/1A4	9398	A1-25A	77	1036	AI-41B-16	2	AUX/EE	CH
AI-25A	1B4C-8	27T1/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	VA-CON
AI-24A	1A3-10	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-24A	1A3-16	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	FW-AFW
Al-24A	1A3-9	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-24A	1B3A-4	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	CH
AI-24A	1B3A-7	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	VA-CON
AI-24A	1B3B-4	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
AI-24A	1B3B-4B-5	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	CH
A1-24A	1B3C-4C-4	27T1S/1A3	9397	AI-24A	77	1036	AI-41A-16	2	AUX/EE	AC-CCW
AI-25A	1A4-11	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW

BOX	ASSEL	RFLAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-25A	1A4-12	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-25A	1B3B-4B-5	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	CH
Al-25A	1B3C-4C-4	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
AI-25A	1B4A-1	27T1S/1A4	9398	A1-25A	77	1036	AI-41B-16	2	AUX/EE	AC-CCW
Al-25A	1B4C-6	271 IS/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	CH
AI-25A	1B4C-8	27T1S/1A4	9398	AI-25A	77	1036	AI-41B-16	2	AUX/EE	VA-CON
AI-24A	1A3-10	27T1S1/1A3	9397	Al-24A	77	1036	Al-41A-16	3	AUX/EE	AC-RW
A1-24A	1A3-16	27T1S1/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	FW-AFW
AI-24A	1A3-9	27T1S1/1A3	9397	AI-24A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-25A	1A4-11	27T1S1/1A4	9398	AI-25A	77	1036	Al-41B-16	3	AUX/EE	AC-RW
AI-25A	1A4-12	27T1S1/1A4	9398	AI-25A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-23A	1A3-20	27T1X/1A1	57238	AI-23A	77	1036	Al-41A-16	3	AUX/EE	DG
AI-23A	DG-1	27T1X/1A1	57238	AI-23A	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-26A	1A4-1	27T1X/1A2	57240	A1-26A	71	1036	AI-41B-16	3	AUX/EE	DG
AI-26A	DG-2	27T1X/1A2	57240	AI-26A	77	1036	AI-41B-16	17	AUX/EDG	DG
1B3A	1B3A-4	27T1X/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	CH
1B3A	1B3A-7	27T1X/1B3A	12254	1B3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3B	1B3B-4	27T1X/1B3B	57305	IB3B	56	1011	EE-81	2	AUX/EE	AC-CCW
1B4B	1B3B-4B-5	27T1X/1B3B-4B	57305	1848	56	1011	EE-8G	2	AUX/EE	CH
1B3C-4C	1B3C-4C-4	27T1X/1B3C-4C	57308	1B3C-4C	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B4A	1B4A-1	27T1X/1B4A	12254	IB4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
IB4C	1B4C-6	27T1X/1B4C	57308	1B4C	56	1011	EE-8G	2	AUX/EE	CH
1B4C	1B4C-8	27T1X/1B4C	57308	1B4C	56	1011	EE-8G	2	AUX/EE	VA-CON
AI-23A	1A3-20	27T1Y/1A1	57238	AI-23A	77	1036	AI-41A-16	3	AUX/EE	DG
AI-23A	DG-1	27T1Y/1A1	57238	AI-23A	77	1036	Al-41A-16	17	AUX/EDG	DG
AI-26A	1A4-1	27T1Y/1A2	57240	AI-26A	77	1036	AI-41B-16	3	AUX/EE	DG
AI-26A	DG-2	27T1Y/1A2	57240	AI-26A	77	1036	AI-41B-16	17	AUX/EDG	DG
AI-24A	1A3-10	27T2/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-24A	1A3-16	27T2/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	FW-AFW
AI-24A	1A3-9	27T2/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-26A	1A4-11	27T2/1A4	9398	A1-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
A1-26A	1A4-12	27T2/1A4	9398	A1-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
A1-24A	1A3-13	27T2S/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-24A	1A3-16	27T2S/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	FW-AFW
AI-24A	1A3-9	27T2S/1A3	57241	AI-24A	77	1036	AI-41B-16	3	AUX/EE	AC-RW
AI-26A	1A4-11	27T2S/1A4	9398	AI-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
AI-26A	1A4-12	27T2S/1A4	9398	AI-26A	77	1036	AI-41A-16	3	AUX/EE	AC-RW
CB-4 AUX	1A3-10	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-16	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	FW-AFW

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	1A3-20	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG
CB-4 AUX	1A3-9	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG
CB-4 AUX	1A4-11	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1B3A-4	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	СН
CB-4 AUX	1B3A-7	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B3C-4C-4	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4C-6	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B4C-8	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	DG-I	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-A AUX	YCV-871G	27X1/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	0	AUX/EDG	VA-EDL
CB-4 AUX	1A3-10	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A3-16	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-20	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG
CB-4 AUX	1A3-9	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG
CB-4 AUX	1A4-11	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1B3A-4	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3A-7	27X1/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3C-4C-4	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B4C-6	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B4C-8	27X1/OPLS-B	16951	CB-4 AUX	. 77	1036	AI-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	DG-1	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	17	AUX/EDG	DG
CB-4 AUX	YCV-871G	27X1/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	0	AUX/EDG	VA-EDL
CB-4 AUX	1A3-10	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-16	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-20	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	DG
CB-4 AUX	1A3-9	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	DG
	*****			CD THOM		1030	711-402-03		AUNEE	100

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	1A4-11	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1B3A-4	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	CH
CB-4 AUX	1B3A-7	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	CH
CB-4 AUX	1B3C-4C-4	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4C-6	27XI/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	2	AUX/EE	CH
CB-4 AUX	1B4C-8	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	DG-1	27X1/OPLS-C	16951	CB-4 AUX	77	1035	AI-40C-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	17	AUX/EDG	DG
CB-4 AUX	YCV-871G	27X1/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	0	AUX/EDG	VA-EDL
CB-4 AUX	1A3-10	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-16	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-20	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG
CB-4 AUX	1A3-9	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG
CB-4 AUX	IA4-11	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW
CB-4 AUX	1B3A-4	27X1/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	2	AUX/EE	СН
CB-4 AUX	1B3A-7	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH
CB-4 AUX	1B3C-4C-4	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4C-6	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH
CB-4 AUX	1B4C-8	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON
CB-4 AUX	DG-1	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X1/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	17	AUX/EDG	DG
CB-4 AUX	YCV-871G	27X1/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	0	AUX/EDG	VA-EDL
CB-4 AUX	1A3-10	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-16	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-20	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG
CB-4 AUX	1A3 9	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	DG
CB-4 AUX	1A4-31	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4- (2	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	3	AUX/EE	AC-RW
CB-4 AUX	1B3/v-4	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	СН

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	1B3A-7	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B3C-4C-4	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B4C-6	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	CH
CB-4 AUX	1B4C-8	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	2	AUX/EE	VA-CON
CB-4 AUX	DG-1	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	17	AUX/EDG	DG
CB-4 AUX	YCV-871G	27X2/OPLS-A	16951	CB-4 AUX	77	1036	AI-40A-05	0	AUX/EDG	VA-EDL
CB-4 AUX	1A3-10	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A3-16	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-20	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG
CB-4 AUX	1A3-9	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	DG
CB-4 AUX	1A4-11	27X2/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	3	AUX/EE	AC-RW
CB-4 AUX	1B3A-4	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3A-7	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	CH
CB-4 AUX	1B3C-4C-4	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B4A-1	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	AC-CCW
CB-4 AUX	1B4C-6	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	СН
CB-4 AUX	1B4C-8	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	2	AUX/EE	VA-CON
CB-4 AUX	DG-I	27X2/OPLS-B	16951	CB-4 AUX	77	1036	Al-40B-03	17	AUX/EDG	DG
CB-4 AUX	DG-2	27X2/OPLS-B	16951	CB-4 AUX	77	1036	A1-40B-03	17	AUX/EDG	DG
CB-4 AUX	YCV-871G	27X2/OPLS-B	16951	CB-4 AUX	77	1036	AI-40B-03	0	AUX/EDG	VA-EDL
CB-4 AUX	1A3-10	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A3-15	27X2*OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	3	AUX/EE	FW-AFW
CB-4 AUX	1A3-20	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	DG
CB-4 AUX	1A3-9	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-1	27X2/OPLS-C	16951	CB-1 AUX	77	1036	AI-40C-05	3	AUX/EE	DG
CB-4 AUX	1A4-11	27X2/OPLS-C	16951	CB- AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1A4-12	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	3	AUX/EE	AC-RW
CB-4 AUX	1B3A-4	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	СН
CB-4 AUX	1B3A-7	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON
CB-4 AUX	1B3B-4	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW
CB-4 AUX	1B3B-4B-5	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	СН

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
CB-4 AUX	1B3C-4C-4	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW	
CB-4 AUX	1B4A-1	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	AC-CCW	
CB-4 AUX	1B4C-6	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	CH	
CB-4 AUX	1B4C-8	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	2	AUX/EE	VA-CON	
CB-4 AUX	DG-1	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	17	AUX/EDG	DG	
CB-4 AUX	DG-2	27X2/OPLS-C	16951	CB-4 AUX	77	1036	A1-40C-05	17	AUX/EDG	DG	
CB-4 AUX	YCV-871G	27X2/OPLS-C	16951	CB-4 AUX	77	1036	AI-40C-05	0	AUX/EDG	VA-EDL	
CB-4 AUX	1A3-10	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW	
CB-4 AUX	1A3-16	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	FW-AFW	
CB-4 AUX	1A3-20	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	DG	
CB-4 AUX	1A3-9	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW	
CB-4 AUX	1A4-1	27X2/OPLS-D	16951	CB-4 AUX	77	1036	A1-40D-05	3	AUX/EE	DG	
CB-4 AUX	1A4-11	27X2/OPLS-D	16951	CB-4 AUX	77	1036	Ai-40D-05	3	AUX/EE	AC-RW	
CB-4 AUX	1A4-12	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	3	AUX/EE	AC-RW	
CB-4 AUX	1B3A-4	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH	
CB-4 AUX	1B3A-7	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	VA-CON	
CB-4 AUX	1B3B-4	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW	
CB-4 AUX	1B3B-4B-5	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH	
CB-4 AUX	1B3C-4C-4	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW	
CB-4 AUX	1B4A-I	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	AC-CCW	
CB-4 AUX	1B4C-6	27X2/OPLS-D	16951	CB-4 AUX	77	1036	AI-40D-05	2	AUX/EE	CH	
CB-4 AUX	1B4C-8	27X2/OPLS-D	16951	CB-4 AUY	77	1036	AI-40D-05	2	AUX/EE	VA-CON	
CB-4 AUX	DG-1	27X2/OPLS-D	16951	CB-4 ' JX	77	1036	AI-40D-05	17	AUX/EDG	DG	
CB-4 AUX	DG-2	27X2/OPLS-D	16951	C 4 AUX	77	1036	AI-40D-05	17	AUX/EDG	DG	
CB-4 AUX	YCV-871G	27X2/OPLS-D	16951	B-4 AUX	77	1036	AI-40D-05	0	AUX/EDG	VA-EDL	
ATA-DI	ATA-DI	2V/ATA-D1	41898	2\.'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG	
ATA-D2	ATA-D2	2V/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG	
AI-198	PCV-102-1	3/102-1	37777	AI-198	57	1013	NA	7	PC	RC	
AI-197	PCV-102-2	3/102-2	37777	AI-197	56	1011	NA	7	PC	RC	
AI-106A	HCV-2898A	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
Al-106A	HCV-2898B	33X/291	43437	AI-106A	. 77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2899A	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2899B	33X/291	43437	Al-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	PCV-840B	33X/291	43437	AI-106A	77	1036	NA.	0	AUX/CCW	VA-CR	
AI-106A	PCV-841B	33X/291	43437	A1-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	TCV-893	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	TCV-894	33X/291	43437	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	VA-46A	33X/291	43437	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106A	VA-46B	33X/291	43437	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106B	HCV-2898A	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	PCV-840B	33X/292	43437	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	PCV-841B	33X/292	43437	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	TCV-893	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
Al-106B	TCV-894	33X/292	43437	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	VA-46A	33X/292	43437	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	33X/292	43437	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-185	HCV-240	3A1/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PCRP	CH
Al-185	HCV-248	3A1/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	CH
AI-185	HCV-249	3A2/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
ATA-DI	ATA-DI	3V/ATA-D1	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-D2	ATA-D2	3V/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
GM-1	PCV-102-1	3X-1/102-1	37777	GM-1	77	1036	NA	7	PC	RC
Al-31E	PCV-102-2	3X-1/102-2	37777	AI-31E	77	1036	NA	7	PC	RC
GM-1	PCV-102-1	3X-2/102-1	37777	GM-1	77	1036	NA	7	PC	RC
AI-31E	PCV-102-2	3X-2/102-2	37777	AI-31E	77	1036	NA	7	PC	RC
GM-1	PCV-102-1	3X-3/102-1	37777	GM-1	77	1036	NA	7	PC	RC
AI-31E	PCV-102-2	3X-3/102-2	37777	AI-31E	77	1036	NA	7	PC	RC
AI-224A	HCV-2898A	42/46A	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	HCV-2898B	42/46A	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	PCV-840B	42/46A	21846	AI-224A	72	1036	NA	0	AUX/CCW	VA-CR
AI-224A	TCV-893	42/46A	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
A1-224A	VA-46A	42/46A	21846	AI-224A	72	1036	NA	10	AUX/CCW	VA-CR
AI-224A	HCV-2899A	42/46B	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	HCV-2899B	42/46B	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	PCV-841B	42/46B	21846	AJ-224A	72	1036	NA	0	AUX/CCW	VA-CR
AI-224A	TCV-894	42/46B	21846	AI-224A	72	1036	NA	7	AUX/CCW	AC-CCW
AI-224A	VA-46B	42/46B	21846	AI-224A	72	1036	NA	10	AUX/CCW	VA-CR
AI-106A	HCV-2898A	42X/VA46A	21847	Aï-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	42X/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	PCV-840B	42X/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	TCV-893	42X/VA46A	21847	AI-106A	77	1036	NA	7	AUX/OCW	AC-CCW
AI-106A	VA-46A	42X/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-224B	HCV-2899A	42X/VA46B	21847	AI-224D	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	42X/VA46B	21847	AI-224B	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	PCV-841B	42X/VA46B	21847	AI-224B	72	1036	NA	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106B	TCV-894	42X/VA46B	21847	AI-224B	72	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	VA-46B	42X/VA46B	21847	A1-224B	72	1036	NA	10	AUX/CCW	VA-CR
AI-185	HCV-240	43A/A1-185	12517	AI-185	57	1013	EE-8G-16	7	PC.R.P	CH
AI-185	HCV-248	43A/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV.R.P	CH
AI-185	TCV-202	43A/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV	CH
AI-185	RC-4-HTRS-10	43B/AI-185	12517	AI-185	57	1013	EE-8G-16	21	PC	EE-5
AI-185	RC-4-HTRS-11	43B/AI-185	12517	AI-185	57	1013	EE-8G-16	21	PC	EE-5
AI-185	RC-4-HTRS-12	43B/AI-185	12517	AI-185	57	1013	EE-8G-16	21	PC	EE-5
AI-185	HCV-240	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
AJ-185	HCV-248	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	CH
AI-185	HCV-249	43C/AI-185	12517	AI-185	57	1013	EE-8G-16	7	PC,R,P	CH
AI-185	PCV-102-2	43C/Al-185	12517	AI-185	57	1013	EE-8G-16	7	PC	RC
AI-185	1B4C-6	43D/AI-185	12517	AI-185	57	1013	EE-8G-16	2	AUX/EE	CE
AI-185	HCV-239	43D/AI-185	12517	AI-185	57	1013	EE-8G-16	7	INV,R,P	СН
A1-179	HCV-1107B	43X/RC-2A	20250	AI-179	57	1013	EE-8G-17	7	DHR	FW-AFW
AI-179	YCV-1045	43X/RC-2A	20260	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045A	43X/RC-2A	20260	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045B	43X/RC-2A	20260	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	FCV-1369	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	FW-AFW
AI-179	HCV-1108B	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	FW-AFW
AI-179	YCV-1045	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045A	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045B	43X/RC-2B	22125	AI-179	57	1013	EE-8G-17	7	DHR	MS
1A3	1A3-9	49-50-83/AC-10A-1	9958	1A3-09	56	1011	1A3-9	3	AUX/EE	AC-RW
1A3	1A3-9	49-50-83/AC-10A-2	9958	1A3-09	56	1011	1A3-9	3	AUX/EE	AC-RW
IA3	1A3-9	49-50-83/AC-10A-3	9958	1A3-09	56	1011	1A3-9	3	AUX/EE	AC-RW
1A4	1A4-11	49-50-83/AC-10B-1	9986	1A4	56	1011	1A4-11	3	AUX/EE	AC-RW
1A4	1A4-11	49-50-83/AC-10B-2	9986	1A4	56	1011	1A4-11	3	AUX/EE	AC-RW
1A4	1A4-11	49-50-83/AC-10B-3	9986	1A4	56	1011	1A4-11	3	AUX/EE	AC-RW
1A3	1A3-10	49-50-83/AC-10C-1	9960	1A3-10	56	1011	1A3-10	3	AUX/EE	AC-RW
1A3	1A3-10	49-50-83/AC-10C-2	9960	1A3-10	56	1011	1A3-10	3	AUX/EE	AC-RW
1A3	1A3-10	49-50-83/AC-10C-3	9960	1A3-10	56	1011	1A3-10	3	AUX/EE	AC-RW
1A4	1A4-12	49-50-83/AC-10D-1	9988	1A4	56	1011	1A4-12	3	AUX/EE	AC-RW
1A4	1A4-12	49-50-83/AC-10D-2	9988	1A4	56	1011	1A4-12	3	AUX/EE	AC-RW
1A4	1A4-12	49-50-83/AC-10D-3	9988	1A4	56	1011	1A4-12	3	AUX/EE	AC-RW
1A3	1A3-16	49-50-83/FW-6-1	9962	1A3-16	56	1011	1A3-16	3	AUX/EE	FW-AFW
1A3	1A3-16	49-50-83/FW-6-2	9962	1A3-16	56	1011	1A3-16	3	AUX/EE	FW-AFW
iA3	1A3-16	49-50-83/FW-6-3	9962	1A3-16	56	1011	1A3-16	3	AUX/EE	FW-AFW
AI-106A	HCV-2898A	5-1.'VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106A	HCV-2898B	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	5-1/VA46A	21847	Al-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899B	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AJ-106A	PCV-8403	5-1/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	PCV-841B	5-1/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	TCV-893	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	TCV-894	5-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	VA-46A	5-1/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	VA-46B	5-1/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	HCV-2898A	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2898B	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	5-1/VA46B	21847	Al-106B	77	1036	NA.	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	PCV-840B	5-1/VA46B	21847	Al-106B	77	1036	NA	0	AUX/CCW	VA-CR
Al-106B	PCV-841B	5-1/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	TCV-893	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AJ-106B	TCV-894	5-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	VA-46A	5-1/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	VA-46B	5-1/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	HCV-2898A	5/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106A	HCV-2898B	5/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	PCV-840B	5/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	TCV-893	5/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	VA-46A	5/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	HCV-2899A	5/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	5/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	PCV-841B	5/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	TCV-894	5/VA46B	21847	AI-106B	77	1036	NA .	7	AUX/CCW	AC-CCW
AI-106B	VA-46B	5/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-24	1A3-20	50-51/D1-1	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	DG-1	50-51/D1-1	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	50-51/D1-2	9405	AI-24	77	1036	NA	3	AUX/EE	DG
A1-24	DG-1	50-51/D1-2	9405	A1-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	50-51/D1-3	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	DG-1	50-51/D1-3	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-1	50-51/D2-1	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	50-51/D2-1	9405	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	1A4-1	50-51/D2-2	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	50-51/D2-2	9405	AI-25	77	1036	NA	17	AUX/EDG	DG

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-25	1A4-1	50-51/D2-3	9405	A1-25	77	1036	NA	3	AUX/EE	DG
A1-25	DG-2	50-51/D2-3	9405	Al-25	77	1036	NA	17	AUX/EDG	DG
AI-23	1A3-20	50-51/T1A-1-1	9407	A1-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A41	50-51/T1A-1-1	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	DG-1	50-51/T1A-1-1	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	50-51/T1A-1-1	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
A1-23	1A3-20	50-51/T1A-1-2	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A4-1	50-51/T1A-1-2	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	DG-1	50-51/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	50-51/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	1A3-20	50-51/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	1A4-1	50-51/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	DG-1	50-51/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	DG-2	50-51/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-26	1A3-20	50-51/T1A-2-1	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	50-51/T1A-2-1	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	DG-1	50-51/T1A-2-1	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	50-51/T1A-2-1	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	1A3-20	50-51/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	50-51/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	DG-1	50-51/T1A-2-2	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-26	DG-2	50-51/T1A-2-2	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-26	1A3-20	50-51/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DG
Al-26	1A4-1	50-51/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	DG-1	50-51/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	50-51/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	50-51/T1A-3-1	9407	AI-24	77	1036	NA	3	AUXEE	DG
AI-24	DG-1	50-51/T1A-3-1	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	50-51/T1A-3-2	9407	AI-24	77	1036	NA	3	AUX/EE	DG
A1-24	DG-1	50-51/T1A-3-2	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	1A3-20	50-51/T1A-3-3	9407	AI-24	77	1036	NA	3	AUX/EE	DG
A1-24	DG-1	50-51/T1A-3-3	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-1	50-51/T1A-4-1	9407	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	DG-2	50-51/T1A-4-1	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-1	50-51/T1A-4-2	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	50-51/T1A-4-2	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-i	50-51/T1A-4-3	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	50-51/T1A-4-3	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
1A3	1A3-11	50-51/T1B-3A-1	9967	1A3-11	56	1011	1A3-11	3	AUX/EE	EE-4A
1A3	1A3-11	50-51/11B-3A-1	9967	IA3-11	56	1011	1A3-11	3	AUX/EE	EE-4A

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
1A3	1A3-11	50-51/T1B-3A-2	9967	1A3-11	56	1011	1A3-11	3	AUX/EE	EE-4A	
1A3	1A3-11	50-51/T1B-3A-3	9967	1A3-11	56	1011	1A3-11	3	AUX/EE	EE-4A	
1A3	1A3-12	50-51/T1B-3B-1	9968	1A3-12	56	1011	1A3-12	3	AUX/EE	EE-4A	
1A3	1A3-12	50-51/T1B-3B-2	9968	1A3-12	56	1011	1A3-12	3	AUX/EE	EE-4A	
1A3	1A3-12	50-51/T1B-3B-3	9968	1A3-12	56	1011	1A3-12	3	AUX/EE	EE-4A	
1A3	1A3-13	50-51/T1B-3C-1	9969	1A3-13	56	1011	1A3-13	3	AUX/EE	EE-4A	
1A3	1A3-13	50-51/T1B-3C-2	9969	1A3-13	56	1011	1A3-13	3	AUX/EE	EE-4A	
1A3	1A3-13	50-51/T1B-3C-3	9969	1A3-13	56	1011	1A3-13	3	AUX/EE	EE-4A	
1A4	1A4-10	50-51/T1B-4A-1	9996	1A4	56	1011	1A4-10	3	AUX/EE	EE-4A	
1A4	1A4-10	50-51/T1B-4A-2	9996	1A4	56	1011	1A4-10	3	AUX/EE	EE-4A	
1A4	1A4-10	50-51/T1B-4A-3	9996	1A4	56	1011	1A4-10	3	AUX/EE	EE-4A	
1A4	1A4-9	50-51/T1B-4B-1	9995	1A4	56	1011	1A4-9	3	AUX/EE	EE-4A	
1A4	1A49	50-51/T1B-4B-2	9995	1A4	56	1011	1A4-9	3	AUX/EE	EE-4A	
IA4	1A4-9	50-51/T1B-4B-3	9995	1A4	56	1011	1A49	3	AUX/EE	EE-4A	
1A4	1A4-8	50-51/T1B-4C-1	9994	1A4	56	1011	1A4-8	3	AUX/EE	EE-4A	
1A4	1A4-8	50-51/T1B-4C-2	9994	1A4	56	1011	1A4-8	3	AUX/EE	EE-4A	
IA4	1A4-8	50-51/T1B-4C-3	9994	1A4	56	1011	1A4-8	3	AUX/EE	EE-4A	
A1-23	1A3-20	51/1A11-1	9400	AI-23	77	1036	NA	3	AUX/EE	DG	
AI-23	DG-1	51/1A11-1	9400	AI-23	77	1036	NA	17	AUX/EDG	DG	
AI-23	1A3-20	51/1A11-2	9400	AI-23	77	1036	NA	3	AUX/EE	DG	
A1-23	DG-1	51/1A11-2	9400	AI-23	77	1036	NA	17	AUX/EDG	DG	
A1-23	IA3-20	51/1A11-3	9400	A1-23	77	1036	NA	3	AUX/EE	DG	
AI-23	DG-1	51/1A11-3	9400	AI-23	77	1036	NA	17	AUX/EDG	DG	
A1-24	1A3-10	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW	
AI-24	1A3-11	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A	
AI-24	1A3-12	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A	
AI-24	1A3-13	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A	
AI-24	1A3-16	51/1A13-1	9401	A1-24	77	1036	NA	3	AUX/EE	FW-AFW	
AI-24	1A3-20	51/1A13-1	9401	AI-24	77	1036	NA	3	AUX/EE	DG	
AI-24	1A3-9	51/1A13-1	9401	A1-24	77	1036	NA	3	AUX/EE	AC-RW	
AI-24	1A4-1	51/1A13-1	9401	AI-24	. 77	1036	NA	3	AUX/EE	DG	
AI-24	1B3A-4	51/1A13-1	9401	A1-24	77	1036	NA	2	AUX/EE	СН	
AI-24	1B3A-7	51/1A13-1	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON	
A1-24	1B3B-4	51/1A13-1	9401	A1-24	77	1036	NA	2	AUX/EE	AC-CCW	
A1-24	1B3B-4B-5	51/1A13-1	9401	AI-24	77	1036	NA	2	AUX/EE	CH	
AI-24	1B3C-4C-4	51/1A13-1	9401	A1-24	77	1036	NA	2	AUX/EE	AC-CCW	
A1-24	DG-2	51/1A13-1	9401	AI-24	77	1036	NA	17	AUX/EDG	DG	
A1-24	1A3-10	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW	
A1-24	1A3-11	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	1A3-12	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-16	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-20	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-9	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A4-1	51/1A13-2	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1B3A-4	51/1A13-2	9461	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-7	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
A1-24	1B3B-4	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4B-5	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3C-4C-4	51/1A13-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	DG-2	51/1A13-2	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-24	1A3-10	51/1A13-3	9401	A1-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-11	51/1A13-3	9401	Al-24	77	1036	NA	3	AUX/EE	EE-4A
A1-24	1A3-12	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-16	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-20	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-9	51/1A13-3	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A4-1	51/1A13-3	9401	A1-24	77	1036	NA	3	AUX/EE	DG
AI-24	1B3A-4	51/1A13-3	9401	A1-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-7	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
AI-24	1B3B-4	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4B-5	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3C-4C-4	51/1A13-3	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	DG-2	51/1A13-3	9401	Al-24	77	1036	NA	17	AUX/EDG	DG
AI-26	1A4-1	51/1A22-1	9402	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	DG-2	51/1A22-1	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	1A4-1	51/1A22-2	9402	Al-26	77	1036	NA	3	AUX/EE	DG
AI-26	DG-2	51/1A22-2	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	1A4-1	51/1A22-3	9402	AI-26	77	1036	NA	3	AUX/EE	DG
A1-26	DG-2	51/1A22-3	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-25	1A3-20	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A4-10	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-11	51/1A24-1	9403	A1-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A24-1	9403	AI-25	77	1036	NÁ	3	AUX/EE	AC-RW
AI-25	1A4-8	51/1A24-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A24-1	9403	A1-25	77	1036	NA	3	AUX/EE	EE-4A

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-25	1B3B-4B-5	51/1A24-1	9403	A1-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B3C-4C-4	51/1A24-1	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B4A-1	51/1A24-1	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B4C-6	51/1A24-1	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-8	51/1A24-1	9403	A1-25	77	1036	NA	2	AUX/EE	VA-CON
A1-25	DG-I	51/1A24-1	9403	A1-25	77	1036	NA	17	AUX/EDG	DG
A1-25	1A3-20	51/1A24-2	9403	A1-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A4-10	51/1A24-2	9403	A1-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-11	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-8	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-9	51/1A24-2	9403	AI-25	77	1036	NA	3	AUX/ZE	EE-4A
AI-25	1B3B-4B-5	51/1A24-2	9403	A1-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B3C-4C-4	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B4C-6	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-8	51/1A24-2	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
A1-25	DG-1	51/1A24-2	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	1A3-20	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-10	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-11	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-8	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A49	51/1A24-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1B3B-4B-5	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B3C-4C-4	51/1/24-3	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51-1A24-3	9403	A1-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4C-6	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B4C-8	51/1A24-3	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	DG-1	51/1A24-3	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-23	1A3-20	51/1A31-1	9400	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	DG-1	51/1A31-1	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
AI-23	1A3-20	51/1A31-2	9400	AI-23	77	1036	NA	3	AUX/EE	DG
A1-23	DG-1	51/1A31-2	9400	A1-23	77	1036	NA	17	AUX/EDG	DG
AI-23	1A3-20	51/1A31-3	9400	AI-23	77	1036	NA	3	AUX/EE	DG
AI-23	DG-1	51/1A31-3	9400	AI-23	77	1036	NA	17	AUX/EDG	DG
A1-24	1A3-10	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-24	1A3-11	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/3A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-16	51/1A33-1	9401	Al-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-2G	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-9	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A4-1	51/1A33-1	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1B3A-4	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	СН
A1-24	1B3A-7	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
AI-24	1B3B-4	51/1A33-1	9401	Al-24	77	1036	NA	2	AUX/EE	AC-CCW
A1-24	1B3B-4B-5	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	СН
AI-24	1B3C-4C-4	51/1A33-1	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AJ-24	DG-2	51/1A33-1	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-10	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-11	51/1A33-2	9401	A1-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-16	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	FW-AFW
AI-24	1A3-20	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-9	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A4-1	51/1A33-2	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1B3A-4	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-7	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
AI-24	1B3B-4	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	1B3B-4B-5	51/1A33-2	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3C-4C-4	51/1A33-2	9401	Al-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	DG-2	51/1A33-2	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-10	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A3-11	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-12	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-13	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	EE-4A
AI-24	1A3-16	51/1A33-3	9401	AI-24	77	1036	NΛ	3	AUX/EE	FW-AFW
AI-24	1A3-20	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	1A3-9	51/1A33-3	9401	AI-24	77	1036	NA	3	AUX/EE	AC-RW
AI-24	1A4-1	51/1A33-3	9401	A1-24	77	1036	NA	3	AUX/EE	DG
A1-24	1B3A-4	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	CH
AI-24	1B3A-7	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	VA-CON
A1-24	1B3B-4	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	AC-CCW
A1-24	1B3B-4B-5	51/1A33-3	9401	AI-24	77	1036	NA	2	AUX/EE	СН

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	1B3C-4C-4	51/1A33-3	9401	A1-24	77	1036	NA	2	AUX/EE	AC-CCW
AI-24	DG-2	51/1A33-3	9401	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-26	1A4-1	51/1A42-1	9402	AI-26	77	1036	NA	3	AUX/EE	DG
A1-25	DG-2	51/1A42-1	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
A1-26	1A4-I	51/1A42-2	9402	A1-26	77	1036	NA	3	AUX/EE	DG
AI-26	DG-2	51/1A42-2	9402	A1-26	77	1036	NA	17	AUX/EDG	DG
AI-26	1A4-1	51/1A42-3	9402	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	DG-2	51/1A42-3	9402	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-25	1A3-20	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A4-1	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-10	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-11	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-8	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-9	51/1A44-1	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1B3B-4B-5	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B3C-4C-4	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4A-1	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4C-6	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B4C-8	51/1A44-1	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
A1-25	DG-1	51/1A44-1	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	1A3-20	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A4-10	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-11	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
A1-25	1A4-8	51/1A44-2	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A44-2	9403	AI-25	77	1036	NA .	3	AUX/EE	EE-4A
A1-25	1B3B-4B-5	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B3C-4C-4	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B4A-1	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4C-6	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	СН
AI-25	1B4C-8	51/1A44-2	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
AI-25	DG-1	51/1A44-2	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	1A3-20	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	1A4-1	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	1A4-10	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1A4-11	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	AC-RW
AI-25	1A4-12	51/1A44-3	9403	A1-25	77	1036	NA	3	AUX/EE	AC-RW
									The second second	1350 1331

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-25	1A4-8	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
AI-25	1A4-9	51/1A44-3	9403	AI-25	77	1036	NA	3	AUX/EE	EE-4A
A1-25	1B3B-4B-5	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
AI-25	1B3C-4C-4	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
A1-25	1B4A-1	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	AC-CCW
AI-25	1B4C-6	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	CH
A1-25	1B4C-8	51/1A44-3	9403	AI-25	77	1036	NA	2	AUX/EE	VA-CON
A1-25	DG-1	51/1A44-3	9403	AI-25	77	1036	NA	17	AUX/EDG	DG
1A3	1A3-10	52/TC/1A3-10	9960	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-11	52/TC/1A3-11	9967	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-12	52/TC/1A3-12	9968	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-13	52/TC/1A3-13	9969	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-16	52/TC/1A3-16	9962	1A3	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-20	52/TC/1A3-20	9953	1A3	56	1011	EE-1F(D1)	3	AUX/EE	DG
1A3	1A3-9	52/TC/1A3-9	9958	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A4	1A4-1	52/TC/1A4-1	9980	1A4	56	1011	EE-1G(D2)	3	AUX/EE	DG
1A4	1A4-10	52/TC/1A4-10	9996	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-11	52/TC/1A4-11	9986	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	52/TC/1A4-12	9988	1A4	56	1011	IA4	3	AUX/EE	AC-RW
1A4	1A4-8	52/TC/1A4-8	9994	1A4	56	1011	IA4	3	AUX/EE	EE-4A
1A4	1A4-9	52/TC/1A4-9	9995	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1B3A	1B3A-1B3A	52/TC/1B3A	57310	1B3A	56	1011	T1B-3A	2	AUX/EE	EE-4B
1B3A	1B3A-4	52/TC/1B3A-4	57294	1B3A	56	1011	IB3A	2	JX/EE	CH
1B3A	1B3A-7	52/TC/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3B	1B3B-1B3B	52/TC/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-4B
1B3B	1B3B-4	52/TC/1B3B-4	12332	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B-4B	1B3B-4B-5	52/TC/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
IB3C	1B3C-1B3C	52/TC/1B3C	57312	1B3C	56	1011	T1B-3C	2	AUX/EE	EE-4B
1B3C-4C	1B3C-4C-4	52/TC/1B3C-4C-4	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
184A	1B4A-1B4A	52/TC/1B4A	57313	1B4A	56	1011	T1B-4A	2	AUX/EE	EE-4B
IB4A	1B4A-1	52/TC/1B4A-1	57295	4B4A	56	1011	1B4A	2	AUX/EE	AC-CCW
1B4B	1B4B-1B4B	52/TC/1B4B	57314	IB4B	56	1011	T1B-4B	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52/TC/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1B4C	1B4C-6	52/TC/1B4C-6	57291	1B4C	56	1011	1B4C	2	AUX/EE	CH
1B4C	1B4C-8	52/TC/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
IB3A	BT-1B3A	52/TC/BT-1B3A	57303	1B3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52/TC/BT-1B3C	57309	1B3C	56	1011	1B3C	2	AUX/EE	EE-4B
IB4B	BT-1B4B	52/TC/BT-1B4B	57307	1B4B	56	1011	1B4B	2	AUX/EE	EE-4B
IB3A	1B3A-1B3A	52CC/1B3A	57310	1B3A	56	1011	T1B-3A	2	AUX/EE	EE-4B

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1B3A	1B3A-4	52CC/1B3A-4	57294	1B3A	56	1011	1B3A	2	AUX/EE	CH
1B3A	1B3A-7	52CC/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3B	1B3B-1B3B	52CC/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-4B
1B3B	1B3B-4	52CC/1B3B-4	12332	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B-4B	1B3B-4B-5	52CC/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3C	1B3C-1B3C	52CC/1B3C	57312	1B3C	56	1011	T1B-3C	2	AUX/EE	EE-4B
1B3C-4C	1B3C-4C-4	52CC/1B3C-4C-4	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B4A	1B4A-1B4A	52CC/1B4A	57313	IB4A	56	1011	T1B-4A	2	AUX/EE	EE-4B
IB4A	1B4A-1	52CC/1B4A-1	57295	1B4A	56	1011	1B4A	2	AUX/EE	AC-CCW
1B4B	1B4B-1B4B	52CC/1B4B	57314	1B4B	56	1011	TIB-4B	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52CC/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1B4C	1B4C-6	52CC/1B4C-6	57291	1B4C	56	1011	1B4C	2	AUX/EE	CH
1B4C	1B4C-8	52CC/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
1B3A	BT-1B3A	52CC/BT-1B3A	57303	1B3A	56	1011	IB3A	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52CC/BT-1B3C	57309	1B3C	56	1011	1B3C	2	AUX/EE	EE-4B
1848	BT-1B4B	52CC/BT-1B4B	57307	1B4B	56	1011	1B4B	2	AUX/EE	EE-4B
1A3	1A3-10	52X/1A3-10	9960	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A3	1A3-11	52X/1A3-11	9967	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-12	52X/1A3-12	9968	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-13	52X/1A3-13	9969	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-16	52X/1A3-16	9962	1A3	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-20	52X/1A3-20	9953	1A3	56	1011	EE-IF(D1)	3	AUX/EE	DG
1A3	1A3-9	52X/1A3-9	9958	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1A4	1A4-1	52X/1A4-1	9980	1A4	56	1011	EE-1G(D2)	3	AUX/EE	DG
1A4	1A4-10	52X/1A4-10	9996	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-11	52X/1A4-11	9986	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	1A4-12	52X/1A4-12	9988	1A4	56	1011	1A4	. 3	AUX/EE	AC-RW
1A4	1A4-8	52X/1A4-8	9994	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A49	52X/1A4-9	9995	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1B3A	1B3A-1B3A	52X/1B3A	57310	1B3A	56	1011	T1B-3A	2	AUX/EE	EE-4B
1B3A	1B3A-4	52X/1B3A-4	57294	1B3A	56	1011	1B3A	2	AUX/EE	CH
1B3A	1B3A-7	52X/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3B	1B3B-1B3B	52X/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-48
1B3B	1B3B-4	52X/1B3B-4	12332	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B-4B	1B3B-4B-5	52X/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3C	1B3C-1B3C	52X/1B3C	57312	IB3C	56	1011	TIB-3C	2	AUX/EE	EE-4B
1B4A	1B4A-1B4A	52X/1B4A	57313	1B4A	56	1011	TIB-4A	2	AUX/EE	EE-4B
1B4A	1B4A-1	52X/1B4A-1	57295	1B4A	56	1011	1B4A	2	AUX/EE	AC-CCW
1B4B	1B4B-1B4B	52X/1B4B	57314	1B4B	56	1011	T1B-4B	2	AUX/EE	EE-4B

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
IB4C	1B4C-1B4C	52X/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-4B
1B4C	1B4C-6	52X/1B4C-6	57291	1B4C	56	1011	1B4C	2	AUX/EE	СН
1B4C	1B4C-8	52X/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
1B3C-4C	1B3C-4C-4	52X/1BC3-4C-4	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B3A	BT-1B3A	52X/BT-1B3A	57303	1B3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52X/BT-1B3C	57309	1B3C	56	1011	IB3C	2	AUX/EE	EE-4B
1B4B	BT-1B4B	52X/BT-1B4B	57307	1848	56	1011	1B4B	2	AUX/EE	EE-4B
52XX-2/4	1A3-20	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
52XX-2/4	1A4-1	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
52XX-2/4	DG-1	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	17	AUX/EDG	DG
52XX-2/4	DG-2	52XX-2/4	9406	9E'D-1N'1A	56	1011	NA	17	AUX/EDG	DG
52XX-2/5	1A3-20	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
52XX-2/5	1A4-1	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	3	AUX/EE	DG
52XX-2/5	DG-1	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	17	AUX/EDG	DG
52XX-2/5	DG-2	52XX-2/5	9406	9E'D-1N'1A	56	1011	NA	17	AUX/EDG	DG
1B3A	1B3A-4	52XX/1B3A	57310	1B3A	56	1011	EE-8F	2	AUX/EE	СН
1B3A	1B3A-7	52XX/1B3A	57310	IB3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1B3A	BT-1B3A	52XX/1B3A	57310	1B3A	56	1011	EE-8F	2	AUX/EE	EE-4B
1B3B	1B3B-4	52XX/1B3B	57311	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3B	1B3B-4B-5	52XX/1B3B	57311	1B3B	56	1011	EE-8F	2	AUX/EE	CH
1B3C	1B3C-4C-4	52XX/1B3C	57312	IB3C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3C	BT-1B3C	52XX/1B3C	57312	1B3C	56	1011	EE-8F	2	AUX/EE	EE-4B
1B4A	1B4A-1	52XX/1B4A	57313	IB4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B4B	1B3B-4B-5	52XX/1B4B	57314	IB4B	56	1011	EE-8G	2	AUX/EE	CH
1B4B	BT-1B4B	52XX/1B4B	57314	1B4B	56	1011	EE-8G	2	AUX/EE	EE-4B
1B4C	1B3C-4C-4	52XX/1B4C	57315	1B4C	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B33	1B3C-4C-4	52XX/AC-3A	12332	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3B	1B4A-1	52XX/AC-3A	12332	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B4A	1B3B-4	52XX/AC-3B	57295	!B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B4A	1B3C-4C-4	52XX/AC-3B	57295	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3C-4C	1B3B-4	52XX/AC-3C	57296	1B3C-4C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3C-4C	1B4A-1	52XX/AC-3C	57296	1B3C-4C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B3B	1B3B-4B-5	52XX/BT-1B3B	57306	1B3B	56	1011	EE-8F	2	AUX/EE	CH
1B3C	1B3C-4C-4	52XX/BT-1B3C	57309	1B3C	56	1011	EE-8F	2	AUX/EE	AC-CCW
1B4B	1B3B-4B-5	52XX/BT-1B4B	57307	1B4B	56	1011	EE-8G	2	AUX/EE	CH
1B4C	1B3C-4C-4	52XX/BT-1B4C	12255	1B4C	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3A	1B3A-7	52XX/VA-3A	12333	1B3A	56	1011	EE-8F	2	AUX/EE	VA-CON
1A3	1A3-11	52Y/1A3-11	9967	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-12	52Y/1A3-12	9968	1A3	56	1011	1A3	3	AUX/EE	EE-4A

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
1A3	1A3-13	52Y/1A3-13	9969	1A3	56	1011	1A3	3	AUX/EE	EE-4A
1A3	1A3-16	52Y/1A3-16	9962	1A3	56	1011	1A3	3	AUX/EE	FW-AFW
1A3	1A3-20	52Y/1A3-20	9953	1A3	56	1011	EE-1F(D1)	3	AUX/EE	DG
1A3	1A3-9	52Y/1A3-9	9958	1A3	56	1011	1A3	3	AUX/EE	AC-RW
IA4	1A4-1	52Y/1A4-1	9980	1A4	56	1011	EE-1G(D2)	3	AUX/EE	DG
1A4	1A4-10	52Y/1A4-10	9996	IA4	56	1011	1A4	3	AUX/EE	EE-4A
IA4	1A4-12	52Y/1A4-12	9988	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A4	!A4-8	52Y/1A4-8	9994	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1A4	1A4-9	52Y/1A4-9	9995	1A4	56	1011	1A4	3	AUX/EE	EE-4A
1B3A	1B3A-1B3A	52Y/1B3A	57310	1B3A	56	1011	T1B-3A	2	AUX/EE	EE-4B
1B3A	1B3A-4	52Y/1B3A-4	57294	1B3A	56	1011	1B3A	2	AUX/EE	CH
IB3A	1B3A-7	52Y/1B3A-7	12333	1B3A	56	1011	1B3A	2	AUX/EE	VA-CON
1B3B	1B3B-1B3B	52Y/1B3B	57311	1B3B	56	1011	T1B-3B	2	AUX/EE	EE-4B
1B3B	1B3B-4	52Y/1B3B-4	12332	1B3B	56	1011	1B3B	2	AUX/EE	AC-CCW
1B3B-4B	1B3B-4B-5	52Y/1B3B-4B-5	57297	1B3B-4B	56	1011	1B3B-4B	2	AUX/EE	CH
1B3C	1B3C-1B3C	52Y/1B3C	57312	1B3C	56	1911	T1B-3C	2	AUX/EE	EE-4B
1B4A	1B4A-1B4A	52Y/1B4A	57313	IB4A	56	1011	T1B-4A	2	AUX/EE	EE-4B
1B4A	1B4A-1	52Y/1B4A-1	57295	1B4A	56	1011	IB4A	2	AUX/EE	AC-CCW
1B4B	1B4B-1B4B	52Y/1B4B	57314	1B4B	56	1011	T1B-4B	2	AUX/EE	EE-4B
1B4C	1B4C-1B4C	52Y/1B4C	57315	1B4C	56	1011	T1B-4C	2	AUX/EE	EE-48
1B4C	1B4C-6	52Y/1B4C-6	57291	1B4C	56	1011	1B4C	2	AUX/EE	CH
1B4C	IB4C 8	52Y/1B4C-8	57300	1B4C	56	1011	1B4C	2	AUX/EE	VA-CON
1A4	1A4-11	52Y/AC-10B	9986	1A4	56	1011	1A4	3	AUX/EE	AC-RW
1A3	1A3-10	52Y/AC-10C	9960	1A3	56	1011	1A3	3	AUX/EE	AC-RW
1B3C-4C	1B3C-4C-4	52Y/AC-3C	57296	1B3C-4C	56	1011	1B3C-4C	2	AUX/EE	AC-CCW
1B3A	BT-1B3A	52Y/BT-1B3A	57303	1B3A	56	1011	1B3A	2	AUX/EE	EE-4B
1B3C	BT-1B3C	52Y/BT-1B3C	57309	1B3C	56	1011	1B3C	2	AUX/EE	EE-4B
1B4B	BT-1B4B	52Y/BT-1B4B	57307	1B4B	56	1011	1B4B	2	AUX/EE	EE-4B
AI-30A(S1-1)	1A3-9	62-1-1/AC-10A	9801	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-10	62-1-1/AC-10C	9801	AI-30A(S1-1)	77	1036	Aĭ-41A-06	3	AUX/EE	AC-RW
A1-30A(S1-1)	1B3B-4	62-1-1/AC-3A	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(\$1-1)	1B3C-4C-4	62-1-1/AC-3C	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(\$1-1)	1B3A-4	62-1-1/CH-1A	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-1)	1B3B-4B-5	62-1-1/CH-1C	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(\$1-1)	1A3-16	62-1-1/FW-6	9801	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(\$1-1)	1B3A-7	62-1-1/VA-3A	9802	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
1A3	1A3-9	62-1-1X/AC-10A	9801	1A3-09	56	1011	AI-41A-06	3	AUX/EE	AC-RW
1A3	1A3-10	62-1-1X/AC-10C	9801	1A3-10	56	1011	AI-41A-06	3	AUX/EE	AC-RW
A1-108A	1B3B-4	62-1-1X/AC-3A	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	AC-CCW

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-108A	1B3C-4C-4	62-1-1X/AC-3C	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	AC-CCW
Al-108A	1B3A-4	62-1-1X/CH-1A	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	СН
AI-108A	1B3B-4B-5	62-1-1X/CH-1C	9802	AI-108A	56	1011	AJ-41A-06	2	AUX/EE	CH
1A3	1A3-16	62-1-1X/FW-6	9801	1A3-16	56	1011	AI-41A-06	3	AUX/EE	FW-AFW
AI-108A	1B3A-7	62-1-1X/VA-3A	9802	AI-108A	56	1011	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(S1-2)	1A3-9	62-1-2/AC-10A	9801	AI-30A(S1-2)	77	1036	AI-40B-19	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-10	62-1-2/AC-10C	9801	AI-30A(S1-2)	77	1036	AI-40B-19	3	AUX/EE	AC-RW
AI-30A(S1-2)	1B3B-4	62-1-2/AC-3A	9803	AJ-30A(S1-2)	77	1036	AI-30A-02-05	2	AUX/EE	AC-CCW
A1-30A(S1-2)	1B3C-4C-4	62-1-2/AC-3C	9803	AI-30A(S1-2)	77	1036	AI-40B-19	2	AUX/EE	AC-CCW
A1-30A(S1-2)	1B3A-4	62-1-2/CH-1A	9803	A1-30A(S1-2)	77	1036	AI-40B-19	2	AUX/EE	CH
AI-30A(S1-2)	1B3B-4B-5	62-1-2/CH-1C	9803	AI-30A(S1-2)	77	1036	AI-40B-19	2	AUX/EE	CH
AI-30A(S1-2)	1A3-16	62-1-2/FW-6	9801	AI-30A(S1-2)	77	1036	AI-40B-19	3	AUX/EE	FW-AFW
AI-30A(S1-2)	1B3A-7	62-1-2/VA-3A	9803	AI-30A(S1-2)	77	1036	AI-30B-02-04	2	AUX/EE	VA-CON
1A3	1A3-9	62-1-2X/AC-10A	9801	1.13-09	56	1011	AI-40B-19	3	AUX/EE	AC-RW
1A3	1A3-10	62-1-2X/AC-10C	9801	1A3-10	56	1011	AI-40B-19	3	AUX/EE	AC-RW
AI-108A	1B3B-4	62-1-2X/AC-3A	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	AC-CCW
AI-108A	1B3C-4C-4	62-1-2X/AC-3C	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	AC-CCW
AI-108A	1B3A-4	62-1-2X/CH-1A	9803	Al-108A	56	1011	AI-40B-19	2	AUX/EE	СН
AI-108A	1B3B-4B-5	62-1-2X/CH-1C	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	СН
1A3	1A3-16	62-1-2X/FW-6	9801	1A3-16	56	1011	AI-40B-19	3	AUX/EE	FW-AFW
AI-108A	1B3A-7	62-1-2X/VA-3A	9803	AI-108A	56	1011	AI-40B-19	2	AUX/EE	VA-CON
A1-207	HCV-921	62-1/921/922	22613	AI-207	TURB	1039	NA	7	DHR	MS
AI-207	HCV-922	62-1/921/922	22613	AI-207	TURB	1039	NA	7	DHR	MS
1A3	1A3-9	62-1/AC-10A	9958	1A3	56	1011	EE-8F	3	AUX/EE	AC-RW
1A4	1A4-11	62-1/AC-10B	9986	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
1A3	1A3-10	62-1/AC-10C	9960	1A3	56	1011	EE-8F	3	AUX/EE	AC-RW
1A4	1A4-12	62-1/AC-10D	9988	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
1B3B	1B3B-4	62-1/AC-3A	12332	1B3B	56	1011	EE-8F	2	AUX/EE	AC-CCW
IB4A	1B4A-1	62-1/AC-3B	57295	1B4A	56	1011	EE-8G	2	AUX/EE	AC-CCW
1B3C	1B3C-4C-4	62-1/AC-3C	57296	1B3C	56	1011	EE-8F	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1A4-11	62-2-1/AC-10B	9811	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
Al-30B(S2-1)	1A4-12	62-2-1/AC-10D	9811	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(S2-1)	1B4A-1	62-2-1/AC-3B	9812	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B3C-4C-4	62-2-1/AC-3C	9812	A1-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
A1-30B(S2-1)	1B4C-6	62-2-1/CH-1B	9812	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	СН
A1-30B(S2-1)	1B3B-4B-5	62-2-1/CH-1C	9812	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
Ai-30B(S2-1)	YCV-1045	62-2-1/FW-10	9811	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-1)	YCV-1045A	62-2-1/FW-10	9811	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-1)	YCV-1045B	62-2-1/FW-10	9811	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-30B(S2-1)	1B4C-8	62-2-1/VA-3B	9812	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
1A4	1A4-11	62-2-1X/AC-10B	9811	1A4	56	1011	AI-41B-06	3	AUX/EE	AC-RW
1A4	1A4-12	62-2-1X/AC-10D	9811	1A4	56	1011	AI-41B-06	3	AUX/EE	AC-RW
AI-108B	1B4A-1	62-2-1X/AC-3B	9812	AI-108B	56	1011	AI-41B-06	2	AUX/EE	AC-CCW
AI-108B	1B3C-4C-4	62-2-1X/AC-3C	9812	AI-108B	56	1011	AI-41B-06	2	AUX/EE	AC-CCW
AI-108B	1B4C-6	62-2-1X/CH-1B	9812	AI-108B	56	1011	Al-41B-06	2	AUX/EE	CH
AI-108B	1B3B-4B-5	62-2-1X/CH-1C	9812	AI-108B	56	1011	AI-41B-06	2	AUX/EE	CH
AI-108B	1B4C-8	62-2-1X/VA-3B	9812	AI-108B	56	1011	Al-41B-06	2	AUX/EE	VA-CON
A1-30B(S2-2)	1A4-11	62-2-2/AC-10B	9811	AI-30B(S2-2)	77	1036	AI-40A-21	3	AUX/EE	AC-RW
AI-30B(S2-2)	1A4-12	62-2-2/AC-10D	9811	AI-30B(S2-2)	77	1036	AI-40A-21	3	AUX/EE	AC-RW
A1-30B(S2-2)	1B4A-1	62-2-2/AC-3B	9813	AI-30B(\$2-2)	77	1036	AI-40A-21	2	AUX/EE	AC-CCW
A1-30B(S2-2)	1B3C-4C-4	62-2-2/AC-3C	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	AC-CCW
A1-30B(S2-2)	1B4C-6	62-2-2/CH-1B	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	CH
AI-30B(S2-2)	1B3B-4B-5	62-2-2/CH-1C	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	СН
A1-30B(S2-2)	1B4C-8	62-2-2/VA-3B	9813	AI-30B(S2-2)	77	1036	AI-40A-21	2	AUX/EE	VA-CON
AI-30B(S2-2)	YCV-1045	62-2-2C/FW-10	9311	AI-30B(S2-2)	77	1036	AI-40B-21	7	DHR	MS
AI-30B(S2-2)	YCV-1045A	62-2-2C/FW-10	9811	AI-30B(S2-2)	77	1036	AI-40B-21	7	DHR	MS
AI-30B(S2-2)	YCV-1045B	62-2-2C/FW-10	9811	AI-30B(S2-2)	77	1036	AI-40B-21	7	DHR	MS
1A4	1A4-11	62-2-2X/AC-10B	9811	1A4	56	1011	EF 8G	3	AUX/EE	AC-RW
IA4	1A4-12	62-2-2X/AC-10D	9811	1A4	56	1011	EE-8G	3	AUX/EE	AC-RW
AI-108B	1B4A-1	62-2-2X/AC-3B	9813	AI-108B	56	1011	A1-40A-21	2	AUX/EE	AC-CCW
AI-108B	1B3C-4C-4	62-2-2X/AC-3C	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	AC-CCW
AI-108B	1B4C-6	62-2-2X/CH-1B	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	CH
AI-108B	1B3B-4B-5	62-2-2X/CH-1C	9813	AI-108B	56	1011	AI-40A-21	2	AUX/EE	СН
AI-66B	YCV-1045	62-2-2X/FW-10	21423	A1-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	62-2-2X/FW-10	21423	Al-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	62-2-2X/FW-10	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-108B	1B4C-8	62-2-2X/VA-3B	9813	AI-108B	56	1011	AI-40A-21 '	2	AUX/EE	VA-CON
AI-109A	RC-4-HTRS-1	62-A/LS	12280	AI-109A	56	1011	AI-41A-06	21	PC	EE-5
AI-109B	RC-4-HTRS-10	62-B/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-11	62-B/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-12	62-B/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AC-DC-2	HCV-400A	62/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400C	62/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401 A	62/401	41269	AC-DC-2	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401C	62/401	41269	AC-DC-2	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402A	62/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402C	62/402	41269	AC-DC-2	77	1036	Al-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403A	62/403	41269	AC-DC-2	77	1036	Al-41A-12	7	AUX/CCW	AC-CCW

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-2	HCV-403C	62/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
A1-207	HCV-921	62/921	. 22613	AI-207	TURB	1039	NA	7	DHR	MS
AI-207	HCV-922	62/922	22613	AI-207	TURB	1039	NA	7	DHR	MS
AI-43A	HCV-2504A	62A/CIAS	40247	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AC-DC-2	1B3A-4	62X/PCS-224	57294	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B4C-6	62X/PCS-227	57291	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	62X/PCS-230	57297	AC-DC-2	77	1936	NA	2	AUX/EE	CH
AI-66A	HCV-1107B	63/1107B	21422	AI-66A	77	1036	NA	7	DHR	FW-AFW
AI-66B	HCV-1108B	63/1108B	21421	Al-66B	77	1036	NA	7	DHR	FW-AFW
T1A-3	1A3-20	63FP/T1A-3	9407	T1A-3	OTDR	1008	NA	3	AUX/EE	DG
T1A-3	DG-1	63FP/T1A-3	9407	TIA-3	OTDR	1008	NA	17	AUX/EDG	DG
TIA-4	1.4-1	63FP/T1A-4	9407	TIA-4	OTDR	1008	NA	3	AUX/EE	DG
T1A-4	DG-2	63FP/T1A-4	9407	T1A-4	OTDR	1008	NA	17	AUX/EDG	DG
A1-24	1A3-20	63FPX-1/T1A-3	9407	AI-24	77	1036	EE-8F	3	AUX/EE	DG
AI-24	DG-1	63FPX-1/T1A-3	9407	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
AI-25	1A4-I	63FPX-1/T:A-4	9407	AI-25	77	1036	EE-8G	3	AUX/EE	DG
AI-25	DG-2	63FPX-1/T1A-4	9407	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
T1A-3	1A3-20	63FPX/T1A-3	9407	T1A-3	OTDR	1008	NA	3	AUX/EE	DG
T1A-3	DG-1	63FPX/T1A-3	9407	TIA-3	OTDR	1008	NA	17	AUX/EDG	DG
TIA-4	1A4-1	63FPX/T1A-4	9407	TIA-4	OTDR	1008	NA	3	AUX/EE	DG
TIA-4	DG-2	63FPX/T1A-4	9407	T1A-4	OTDR	1008	NA	17	AUX/EDG	DG
AC-DC-2	RC-4-HTRS-10	63X-1/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-11	63X-1/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-12	63X-1/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-10	63X-1/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-11	63X-1/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-12	63X-1/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-10	63X-1/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-11	63X-1/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-12	63X-1/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	1B3A-4	63X-2/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63X-2/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B4C-6	63X-2/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	PCV-102-1	63X/102-1	37777	AC-DC-2	77	1036	AI-41A-12	7	PC	RC
AC-DC-2	PCV-102-2	63X/102-1	37777	AC-DC-2	77	1036	AI-41A-12	7	PC	RC
AC-DC-2	PCV-102-1	63X/102-2	37777	AC-DC-2	77	1036	Al-41A-12	7	PC	RC
AC-DC-2	PCV-102-2	63X/102-2	37777	AC-DC-2	77	1036	Ai-41A-12	7	PC	RC
AC-DC-2	RC-4-HTRS-1	63X/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-2	63X/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-2	RC-4-HTRS-3	63X/LC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	1B3A-4	63X/LCA-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63X/LCA-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B4C-6	63X/LCA-101	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	СН
AC-DC-2	LCV-218-2	63X/LCS-218	9543	AC-DC-2	77	1036	AI-42B-09	7	INV,R,P	CH
AC-DC-2	LCV-218-3	63X/LCS-218	9543	AC-DC-2	77	1036	A1-42B-09	7	INV,R,P	CH
AC-DC-2	RC-4-HTRS-1	63X/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-2	63X/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-3	63X/LIC-101	9513	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	FCV-269	63X/LIC-219	6153	AC-DC-2	77	1036	AI-42A-07	7	RC	CH
AC-DC-2	1B3A-4	63X/PCS-226	57294	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B4C-6	63X/PCS-229	57291	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63X/PCS-232	57297	AC-DC-2	77	1036	NA	2	AUX/EE	CH
AC-DC-2	RC-4-HTRS-1	63X/PIC-103	9503	AC-DC-2	- 77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-2	63X/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	RC-4-HTRS-3	63X/PIC-103	9503	AC-DC-2	77	1036	AI-40A-20	21	PC	EE-5
AC-DC-2	1B3A-4	63XA/LC-101-1	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63XA/LC-101-1	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B4C-6	63XA/LC-101-1	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3A-4	63XA/LC-101-2	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B3B-4B-5	63XA/LC-101-2	9513	AC-DC-2	77	1036	AI-40A-20	2	AUX/EE	CH
AC-DC-2	1B4C-6	63XA/LC-101-2	9513	AC-DC-2	77	1036	AI-40A-20	2	AUXÆ	CH
AI-24	1A3-20	67/D1	9405	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	DG-1	67/D1	9405	AI-24	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-1	67/D2	9405	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	67/D2	9405	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-4C	HCV-150	74/150	41445	AI-4C	77	1036	NA	7	PC	RC
GM-1	HCV-151	74/151	41445	GM-1	77	1036	NA	7	PC	RC
MCC-4A1	HCV-1041C	74/HCV-1041C	21357	MCC-4A1-C04	57	1013	MCC-4A1	7	DHR	MS
MCC-4C1	HCV-1042C	74/HCV-1042C	21357	MCC-4C1-P03	57	1013	MCC-4C1	7	DHR	MS
MCC-4C1	HCV-1384	74/HCV-1384	54553	MCC-4C1-E03	57	1013	MCC-4C1	7	DHR	FW-AFW
MCC-3A1	HCV-1385	74/HCV-1385	41890	MCC-3A1-E04	57	1013	MCC-3A1	7	DHR	FW
MCC-4C1	HCV-1386	74/HCV-1386	41890	MCC-4C1-E04	57	1013	MCC-4C1	7	DHR	FW
MCC-4A2	HCV-258	74/HCV-258	41231	MCC-4A2-E02	26	1007	MCC-4A2	7	INV,R,P	CH
MCC-3C2	HCV-265	74/HCV-265	41231	MCC-3C2-C01	26	1007	MCC-3C2	7	INV,R,P	СН
MCC-3A2	LCV-218-2	74/LCV-218-2	41465	MCC-3A2-E04	4	989	MCC-3A2	7	INV,R,P	CH
MCC-3A2	LCV-218-3	74/LCV-218-3	1258	MCC-3A2-E03	4	989	MCC-3A2	7	INV,R,P	CH
AI-43A	HCV-438A	742A-2	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-438C	742A-2	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-43A	HCV-400A	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400C	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401A	742A-3	41564	A1-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401C	742A-3	41564	A1-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402A	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402C	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403A	742A-3	4156	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403C	742A-3	11564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	TCV-202	742A-3	41564	AI-43A	77	1036	AI-41A-08	7	INV	CH
AI-43A	HCV-400B	742A-4	41564	AI-43A	77	1036	AI-41A-08	?	AUX/CCW	AC-CCW
AI-43A	HCV-400D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401B	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402B	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403B	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403D	742A-4	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-1387A	742A-6	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-43A	HCV-1388A	742A-6	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-43A	HCV-2504A	742A-9	41564	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AI-43A	HCV-2506A	742A-9	41564	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AI-43A	HCV-2507A	742A-9	41564	AI-43A	77	1036	AI-41A-08	7	INV	SL-PRI
AI-43B	HCV-438B	742B-2	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43b	HCV-438D	742B-2	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400A	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400C	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401A	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401C	742B-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402A	742B-3	41567	AI-43B	77	1036	A!-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402C	742B-3	41567	AI-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403A	742B-3	41567	Al-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403C	7428-3	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400B	742B-4	41567	Al-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400D	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401B	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401D	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402B	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402D	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403B	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW

AI-43B	HCV-403D		FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-43B	110 1 1000	742B-4	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-1387B	742B-6	41567	AI-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-43B	HCV-1388B	742B-6	41567	AI-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-30A(S1-1)	1A3-10	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1A3-16	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(\$1-1)	1A3-9	86-1/51-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(S1-1)	1B3A-4	86-1/S1-1	9804	A1-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(\$1-1)	1B3A-7	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(S1-1)	1B3B-4	86-1/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(S1-1)	1B3B-4B-5	86-1/\$1-1	9804	AI-30A(\$1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-1)	1B3C-4C-4	86-1/\$1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
A1-30A(S1-2)	1A3-10	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(S1-2)	1A3-16	86-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
A1-30A(S1-2)	1A3-9	86-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(S1-2)	1B3A-4	86-1/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(S1-2)	1B3A-7	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
AI-30A(S1-2)	1B3B-4	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
A1-30A(S1-2)	1B3B-4B-5	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(S1-2)	1B3C-4C-4	86-1/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1A4-11	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
A1-30B(S2-1)	1A4-12	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
A1-30B(S2-1)	1B3B-4B-5	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(S2-1)	1B3C-4C-4	86-1/\$2-1	9814	A1-30B(\$2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B4A-I	86-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(S2-1)	1B4C-6	86-1/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(S2-1)	1B4C-8	86-1/\$2-1	9814	AI-308(S2-1)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(S2-1)	YCV-1045	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-1)	YCV-1045A	86-1/\$2-1	9814	AI-30B(S2-1)	77	1036	Al-41B-06	7	DHR	MS
AI-30B(S2-1)	YCV-1045B	86-1/\$2-1	9814	AI-30B(\$2-1)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(S2-2)	1A4-11	86-1/\$2-2	9815	AI-30B(\$2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
A1-30B(S2-2)	1A4-12	86-1/\$2-2	9815	AI-30B(\$2-2)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(S2-2)	1B3B-4B-5	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(S2-2)	1B3C-4C-4	86-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(\$2-2)	1B4A-1	86-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(\$2-2)	1B4C-6	86-1/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(S2-2)	1B4C-8	86-1/S2-2	9815	AI-30B(\$2-2)	77	1036	AI-41A-13	2	AUX/EE	VA-CON
AI-30B(\$2-2)	YCV-1045	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	7	DHR	MS
A1-30B(S2-2)	YCV-1045A	86-1/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(S2-2)	YCV-1045B	86-1/S2-2	9815	AI-30B(\$2-2)	77	1036	AI-41A-13	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	DM	DI DY	DOWER	CLASS	SSPATH	SYSTEM
				LOCATION	RM	ELEV	POWER			
A1-24	1A3-20	86-1/T1A-3	9407	AI-24	77	1036	Al-41A-16	3	AUX/EE	DG
A1-24	DG-I	86-1/T1A-3	9407	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
A1-25	1A4-1	86-1/T1A-4	9407	Al-25	77	1036	AI-41A-16	3	AUX/EE	DG
AI-25	DG-2	86-1/T1A-4	9407	AI-25	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-30A(S1-1)	IB3A-4	86-2/\$1-1	9804	Al-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(SI-1)	1B3B-4B-5	86-2/S1-1	9804	AI-30A(S1-1)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(S1-2)	1B3A-4	86-2/\$1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(S1-2)	1B3B-4B-5	86-2/S1-2	9805	AI-30A(S1-2)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30B(S2-1)	1B3B-4B-5	86-2/S2-1	9814	AI-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(S2-1)	1B4C-6	86-2/S2-1	9814	A1-30B(S2-1)	77	1036	AI-41B-06	2	AUX/EE	CH
A1-30B(S2-2)	1B3B-4B-5	86-2/\$2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
A1-30B(S2-2)	1B4C-6	86-2/S2-2	9815	AI-30B(S2-2)	77	1036	AI-41A-13	2	AUX/EE	CH
A1-22	1A3-20	86-2/SVG1	9406	AI-22	77	1036	EE-8G	3	AUX/EE	DG
A1-22	1A4-1	86-2/SVG1	9406	AI-22	77	1036	EE-8G	3	AUX/EE	DG
AI-22	DG-1	86-2/SVG1	9406	AI-22	77	1036	EE-8G	17	AUX/EDG	DG
AI-22	DG-2	86-2/SVG1	9406	AI-22	77	1036	EE-8G	17	AUX/EDG	DG
AI-24	1A3-20	86-2/T1A-3	9407	AI-24	77	1036	EE-8F	3	AUX/EE	DG
AI-24	DG-1	86-2/T1A-3	9407	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
A1-25	1A4-1	86-2/T1A-4	9407	AI-25	77	1036	EE-8G	3	AUX/EE	DG
A1-25	1A4-1	86-2/T1A-4	9407	AI-25	77	1036	EE-	3	AUX/EE	DG
A1-25	DG-2	86-2/T1A-4	9407	AI-25	77	1036	EE-	17	AUX/EDG	DG
A1-25	DG-2	86-2/T1A-4	9407	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
AI-21	1A3-20	86-3/G1	9407	Al-21	77	1036	AI-41A-16	3	AUX/EE	DG
AI-21	1A4-1	86-3/G1	9407	AI-21	77	1036	AI-41A-16	3	AUX/EE	DG
AI-21	DG-1	86-3/G1	9407	AI-21	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-21	DG-2	86-3/G1	9407	AI-21	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-21	1A3-20	86-3/GT1	9407	Al-21	77	1036	EE-8G	3	AUX/EE	DG
AI-21	1A4-1	86-3/GT1	9407	AI-21	77	1036	EE-8G	3	AUX/EE	DG
AI-21	DG-1	86-3/GT1	9407	AI-21	77	1036	EE-8G	17	AUX/EDG	DG
AI-21	DG-2	86-3/GT1	9407	AI-21	77	1036	EE-8G	17	AUX/EDG	DG
A1-22	1A3-20	86/161	9410	AI-22	77	1036	EE-8G	3	AUX/EE	DG
AI-22	DG-1	86/161	9410	AI-22	77	1036	EE-8G	17	AUX/EDG	DG
A1-23	1A3-20	86/1A11	9400	AI-23	77	1036	EE-8F	3	AUX/EE	DG
A1-23	DG-1	86/1A11	9400	AI-23	77	1036	EE-8F	17	AUX/EDG	DG
A1-24	1A3-10	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-24	1A3-11	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	1A3-12	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
AI-24	1A3-13	86/1A13	9401	Al-24	77	1036	EE-8F	3	AUX/EE	EE-4A
A1-24	1A3-16	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-24	1A3-20	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG
A1-24	1A3-9	86/1A13	9401	AI-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-24	1A4-1	86/1A13	9401	A1-24	77	1036	EE-8F	3	AUX/EE	DG
AI-24	1B3A-4	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	CH
AI-24	1B3A-7	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	VA-CON
AI-24	1B3B-4	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
A1-24	1B3B-4B-5	86/1A13	9401	A1-24	77	1036	EE-8F	2	AUX/EE	CH
A1-24	1B3C-4C-4	86/1A13	9401	AI-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
AI-24	DG-1	86/1A13	9401	A1-24	77	1036	EE-8F	17	AUX/EDG	DG
AI-24	DG-2	86/1A13	9401	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
AI-26	1A4-1	86/1A22	9402	AI-26	77	1036	EE-8G	3	AUX/EE	DG
AI-26	DG-2	86/1A22	9402	AI-26	77	1036	EE-8G	17	AUX/EDG	DG
AI-25	1A3-20	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	DG
A1-25	1A4-1	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	DG
AI-25	1A4-10	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-11	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	AC-RW
A1-25	1A4-12	86/1A24	9403	A1-25	77	1036	EE-8G	3	AUX/EE	AC-RW
AI-25	1A4-8	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1A4-9	86/1A24	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
AI-25	1B3B-4B-5	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	CH
AI-25	1B3C-4C-4	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
A1-25	1B4A-1	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
AI-25	1B4C-6	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	CH
AI-25	1B4C-8	86/1A24	9403	AI-25	77	1036	EE-8G	2	AUX/EE	VA-CON
AI-25	DG-1	86/1A24	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
A1-25	DG-2	86/1A24	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
AI-24	1A3-11	86/1A3-TFB	9406	AI-24	77	1036	AI-41A-16	3	AUX/EE	EE-4A
AI-24	1A3-12	86/1A3-TFB	9406	AI-24	77	1036	AI-41A-16 '	3	AUX/EE	EE-4A
AI-24	1A3-13	86/1A3-TFB	9406	Al-24	77	1036	AI-41A-16	3	AUX/EE	EE-4A
AI-24	1A4-I	86/1A3-TFB	9406	AI-24	77	1036	AI-41A-16	3	AUX/EE	DG
AI-24	DG-2	86/1A3-TFB	9406	A1-24	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-23	1A3-20	86/1A31	9400	AI-23	77	1036	EE-8F	3	AUX/EE	DG
AI-23	DG-1	86/1A31	9400	AI-23	77	1036	EE-8F	17	AUX/EDG	DG
AI-24	1A3-10	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-24	1A3-11	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
A1-24	1A3-12	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
A1-24	1A3-13	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	EE-4A
A1-24	1A3-16	86/1A33	9401	A1-24	77	1036	EE-8F	3	AUX/EE	FW-AFW
AI-24	1A3-20	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A1-24	1A3-9	86/1A33	9401	A1-24	77	1036	EE-8F	3	AUX/EE	AC-RW
AI-24	1A4-1	86/1A33	9401	AI-24	77	1036	EE-8F	3	AUX/EE	DG
AI-24	1B3A-4	86/1A33	9401	AI-24	77	1036	EE-8F	2	AUX/EE	CH
AI-24	1B3A-7	86/1A33	9401	A1-24	77	1036	EE-8F	2	AUX/EE	VA-CON
AI-24	1B3B-4	86/1A33	9401	Al-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
A1-24	1B3B-4B-5	86/1A33	9401	AI-24	77	1036	EE-8F	2	AUX/EE	СН
A1-24	1B3C-4C-4	86/1A33	9401	A1-24	77	1036	EE-8F	2	AUX/EE	AC-CCW
AI-24	DG-1	86/1A33	9401	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
A1-24	DG-2	86/1A33	9401	AI-24	77	1036	EE-8F	17	AUX/EDG	DG
A1-25	1A3-20	86/1A4-TFB	9406	A1-25	77	1036	AI-41B-16	3	AUX/EE	DG
A1-25	1A4-10	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	3	AUX/EE	EE-4A
AI-25	1A4-8	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	3	AUX/EE	EE-4A
A1-25	1A4-9	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	3	AUX/EE	EE-4A
A1-25	DG-1	86/1A4-TFB	9406	AI-25	77	1036	AI-41B-16	17	AUX/EDG	DG
A1-26	1A4-I	86/1A42	9402	AI-26	77	1036	EE-8G	3	AUX/EE	DG
AI-26	DG-2	86/1A42	9402	Al-26	77	1036	EE-8G	17	AUX/EDG	DG
A1-25	1A3-20	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	DG
AI-25	1A4-1	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	DG
AI-25	1A4-10	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
A1-25	1A4-11	86/1A44	9403	A1-25	77	1036	EE-8G	3	AUX/EE	AC-RW
A1-25	1A4-12	86/1A44	9403	A1-25	77	1036	EE-8G	3	AUX/EE	AC-RW
A1-25	1A4-8	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
A1-25	1A4-9	86/1A44	9403	AI-25	77	1036	EE-8G	3	AUX/EE	EE-4A
A1-25	1B3B-4B-5	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	CH
AI-25	1B3C-4C-4	86/1A44	9403	Al-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
A1-25	1B4A-1	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	AC-CCW
A1-25	1B4C-6	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	CH
AI-25	1B4C-8	86/1A44	9403	AI-25	77	1036	EE-8G	2	AUX/EE	VA-CON
AI-25	DG-1	86/1A44	9403	AI-25	77	1036	EE-8G	17	AUX/EDG	DG
A1-25	DG-2	86/1A44	9403	A1-25	77	1036	EE-8G	17	AUX/EDG	DG
AI-43A	HCV-1387A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-43A	HCV-1388A	86/A1-43A	41564	AI-43A	77	1036	AI-41A-08	7	DHR	FW-BD
AI-43A	HCV-400A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400B	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400C	86/A1-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-400D	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401A	86/AI-43A	41564	AI-43A	77	1036	Al-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-401B	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
A1-43A	HCV-401C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-43A	HCV-401D	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402B	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-402D	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403B	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-403D	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-438A	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	HCV-438C	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	AUX/CCW	AC-CCW
AI-43A	TCV-202	86/AI-43A	41564	AI-43A	77	1036	AI-41A-08	7	INV	CH
A1-43B	HCV-1387B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-43B	HCV-1388B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	DHR	FW-BD
AI-43B	HCV-400A	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-400B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-400C	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-400D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401A	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401B	86/A1-43B	41567	Al-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401C	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-401D	86/A1-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402A	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402C	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-402D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403A	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403B	86/AI-43B	41567	A1-43B	77	1036	Al-41B-08	7	AUX/CCW	AC-CCW
A1-43B	HCV-403C	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-403D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-438B	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-43B	HCV-438D	86/AI-43B	41567	AI-43B	77	1036	AI-41B-08	7	AUX/CCW	AC-CCW
AI-24	1A3-20	86/D1	9405	AI-24	77	1036	AI-41A-16	3	AUX/EE	DG
AI-24	1A4-I	86/D1	9405	A1-24	77	1036	AI-41A-16	3	AUX/EE	DG
AI-24	DG-1	86/D1	9405	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
AI-24	DG-2	86/D1	9405	AI-24	77	1036	AI-41A-16	17	AUX/EDG	DG
A1-25	1A3-20	86/D2	9405	AI-25	77	1036	AI-41B-16	3	AUX/EE	DG
AI-25	1A4-1	86/D2	9405	AI-25	77	1036	AI-41B-16	3	AUX/EE	DG
AI-25	DG-1	86/D2	9405	AI-25	77	1036	Al-41B-16	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-25	DG-2	86/D2	9405	A1-25	77	1036	AI-41B-16	17	AUX/EDG	DG
AI-30A(D1)	1A3-20	86A-OR/1AD1	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30B(D2)	1A41	86A-OR/1AD2	9818	A1-30B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30A(ESF)	HCV-1387A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-2504A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86A/CIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2898A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86A/CIAS	9806	Al-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86A/CIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86A/CIAS	9806	A1-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86A/CIAS	9806	A!-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-401C	86A/CIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-402A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-402B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86A/CIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-403D	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	PCV-840B	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	TCV-202	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	CH
AI-30A(ESF)	TCV-893	86A/CIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	VA-46A	86A/CIAS	9806	Al-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	1A3-10	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-16	86A/CPHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
Al-30A(ESF)	1A3-20	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
Al-30A(ESF)	1A3-9	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
A1-30A(ESF)	1A4-11	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-12	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	1B3A-4	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUXÆE	CH
AI-30A(ESF)	1B3A-7	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3B-4	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4B-5	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B3C-4C-4	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B4A-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B4C-6	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B4C-8	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	DG-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	DG-2	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	FCV-269	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	СН
AI-30A(ESF)	HCV-1041A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41 A-06	7	DHR	MS
AI-30A(ESF)	HCV-1041C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	HCV-1042A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	HCV-1042C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	HCV-1385	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW
Al-30A(ESF)	HCV-1386	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW
AI-30A(ESF)	HCV-1387A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-2504A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-257	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-258	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	HCV-264	86A/CPHS	9806	AI-30A(ESF)	77	1036	AJ-41A-06	7	RC	CH
AI-30A(ESF)	HCV-265	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	HCV-2898A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86A/CPHS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86A/CPHS	9806	AI-30A(ESF)	77	1036	A1-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	HCV-403A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403D	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86A/CPHS	9806	Al-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86A/CPHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-725A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	LCV-218-2	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH
AI-30A(ESF)	PCV-840B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	RC-4-HTRS-1	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5
AI-30A(ESF)	TCV-202	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	CH
AI-30A(ESF)	VA-46A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	YCV-1045	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	YCV-1045A	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
AI-30A(ESF)	YCV-1045B	86A/CPHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS
A1-30A(ESF)	HCV-2898A	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86A/CRHS	9806	Al-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-725A	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	PCV-840B	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/CRHS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	HCV-2898A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-725A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	PCV-840B	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86A/CSAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(D1)	1A3-20	86A/D1	9808	AI-30A(D1)	77	1036	AI-41A-06	3	AUX/EE	DG
Ai-30A(D1)	DG-1	86A/D1	9808	AI-30A(D1)	77	1036	AI-41A-06	17	AUX/EDG	DG
A1-30B(D2)	1A4:	86A/D2	9818	AI-30B(D2)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(D2)	DG-2	86A/D2	9818	Al-30B(D2)	77	1036	AI-41A-13	17	AUX/EDG	DG
AI-30A(ESF)	1A3-10	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
Al-30A(ESF)	1A3-16	86A/OPLS	16951	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-20	86A/OPLS	16951	AI-30A(ESF)	77	1036	Al-41A-06	3	AUX/EE	DG

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BOX	ASSEL	RELAY	FIL	E	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	1A3-9	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-1	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(ESF)	1A4-11	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-12	86A/OPLS	169	51	AI-30A(ESF)	77	1036	Al-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1B3A-4	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	СН
A1-30A(ESF)	1B3A-7	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3B-4	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4B-5	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B3C-4C-4	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B4A-1	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
Al-30A(ESF)	1B4C-6	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B4C-8	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	DG-I	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
Al-30A(ESF)	DG-2	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	YCV-871G	86A/OPLS	169	51	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/EDG	VA-EDL
AI-30A(ESF)	1A3-10	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-16	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-20	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
Al-30A(ESF)	1A3-9	86A/PPLS	98	06	AI-30A(ESF)	77	1036	Al-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-1	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	DG
AI-30A(ESF)	1A4-11	86A/PPLS	98	06	AI-30A(ESF)	77	1036	Al-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1A4-12	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	3	AUX/EE	AC-RW
AI-30A(ESF)	1B3A-4	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	СН
AI-30A(ESF)	1B3A-7	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3B-4	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4B-5	86A/PPLS	98	06	AI-30A(ESF)	77	1035	AI-41A-06	2	AUX/EE	СН
AI-30A(ESF)	1B3C-4C-4	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	AC-CCW
Al-30A(ESF)	1B4A-1	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06 '	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B4C-6	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	CH
AI-30A(ESF)	1B4C-8	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	2	AUX/EE	VA-CON
AI-30A(ESF)	DG-1	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	DG-2	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	17	AUX/EDG	DG
AI-30A(ESF)	FCV-269	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH
AI-30A(ESF)	HCV-1387A	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	FW-BD
AI-30A(ESF)	HCV-2504A	86A/PPLS	98		AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86A/PPLS	98	06	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86A/PPLS	98		AI-30A(ESF)	77	1036	AI-41A-06	7	INV	SL-PRI
AI-30A(ESF)	HCV-257	86A/PPLS	98		AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
AI-30A(ESF)	HCV-258	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH	
AI-30A(ESF)	HCV-264	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH	
AI-30A(ESF)	HCV-265	86A/PPLS	9806	AI-30A(ESF)	77	1036	AJ-41A-06	7	INV,R,P	CH	
AI-30A(ESF)	HCV-2898A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-400A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-400B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-400C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-400D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-401A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-401B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-401C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-401D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
Al-30A(ESF)	HCV-402A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-402B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-402C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-402D	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-403A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-403B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-403C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
Al-30A(ESF)	HCV-403D	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-438A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-438C	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-489A	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-489B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-491A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-491B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
AI-30A(ESF)	HCV-724A	86A/PPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	0	AUX/CCW	VA-CON	
AI-30A(ESF)	HCV-725A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON	
AI-30A(ESF)	LCV-218-2	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH	
AI-30A(ESF)	PCV-840B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR	
AI-30A(ESF)	RC-4-HTRS-1	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5	
AI-30A(ESF)	RC-4-HTRS-2	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5	
AI-30A(ESF)	RC-4-HTRS-3	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5	
AI-30A(ESF)	TCV-202	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV	CH	
AI-30A(ESF)	VA-46A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR	
AI-30A(ESF)	YCV-1045	86A/PPLS	9806	AI-30A(ESF)	77	1036	A1-41A-06	7	DHR	MS	
AI-30A(ESF)	YCV-1045A	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS	
AI-30A(ESF)	YCV-1045B	86A/PPLS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	DHR	MS	
CB-4 AUX	HCV-1385	86A/SGIS	24062	CB-4 AUX	77	1036	AI-41A-03	7	DHR	FW	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4	HCV-1041A	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1G41C	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1042A	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1042C	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	MS
CB-4	HCV-1385	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	FW
CB-4	HCV-1386	86A/SGLS	9800	CB-4	77	1036	AI-41A-03	7	DHR	FW
AI-30A(ESF)	HCV-2898A	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86A/SIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	HCV-725A	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	PCV-840B	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
A1-30A(ESF)	VA-46A	86A/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	HCV-2898A	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW
A1-30A(ESF)	HCV-724A	86A/VIAS	9806	AI-30A(ESF)	77	1036	Al-41A-06	0	AUX/CCW	VA-CON
AI-30A(ESF)	PCV-840B	86A/VIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	0	AUX/CCW	VA-CR
AI-30A(ESF)	TCV-893	86A/VIAS	9806	Al-30A(ESF)	77	1036	Al-41A-06	7	AUX/CCW	AC-CCW
AI-30A(ESF)	VA-46A	86A/VIAS	9806	Al-30A(ESF)	77	1036	AI-41A-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	HCV-1387B	86A1/CIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Ai-41A-13	7	DHR	FW-BD
Al-30B(ESF)	HCV-2899A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86A1/CIAS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-400A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86A1/CIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AJX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-401B	86A1/CIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86A1/CIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-403A	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AJ-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403D	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86A1/CIAS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	PCV-841B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	TCV-894	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	VA-46B	86A1/CIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	1A4-1	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(ESF)	1A4-11	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	.3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1B3B-4B-5	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(ESF)	1B3C-4C-4	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4C-6	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
A1-30B(ESF)	1B4C-8	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	VA-CON
AI-30B(ESF)	DG-2	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	17	AUX/EDG	DG
AI-30B(ESF)	HCV-1041A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	HCV-1041C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	HCV-1386	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW
AI-30B(ESF)	HCV-1387B	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-258	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV.R.P	CH
AI-30B(ESF)	HCV-265	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	INV,R,P	CH
AI-30B(ESF)	HCV-2899A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-400B	86A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	. 7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-400C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-401A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86A1/CPHS	9817	Al-30B(ESF)	77	1036	A1-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-401C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUY/CCW	AC-CCW
A1-30B(ESF)	HCV-401D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	Ai-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-403B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-417-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-490B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-725A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON
AI-30B(ESF)	LCV-218-2	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	PCV-841B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	RC-4-HTRS-10	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-3GB(ESF)	VA-46B	86A1/CPHS	9817	AI-30B(ESF)	77	1035	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	YCV-1045	86/A1/CPHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86A1/CPHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
A1-30B(ESF)	HCV-2899A	86A1/CRHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-725A	86A1/CRHS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86A1/CRHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/CRHS	9817	Al-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	HCV-2899A	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-725A	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/CSAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	1A4-1	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	DG
AI-30B(ESF)	1A4-11	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
Al-30B(ESF)	IA4-12	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	3	AUX/EE	AC-RW
AI-30B(ESF)	1B3B-4B-5	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	CH
AI-30B(ESF)	1B3C-4C-4	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	AC-CCW
A1-30B(ESF)	1B4C-6	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/EE	СН
AI-30B(ESF)	1B4C-8	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	2	AUX/FE	VA-CON
A1-30B(ESF)	DG-2	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	17	AUX/EDG	DG
Al-30B(ESF)	HCV-1387B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	FW-BD
AI-30B(ESF)	HCV-258	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	HCV-265	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	HCV-2899A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-401A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86A1/PPLS	9817	A1-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-401C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-402A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-402B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-403A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86A L/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-490A	86A1/FPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86A1/PLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-492A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-725A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON
Al-30B(ESF)	LCV-218-2	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH
AI-30B(ESF)	PCV-841B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	RC-4-HTRS-10	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86A1/PPLS	9817	AI-30B(ESF)	77	1036	Al-41A-13	21	PC	EE-5
A1-30B(ESF)	RC-4-HTRS-12	86A I/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5
AI-30B(ESF)	VA-46B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
AI-30B(ESF)	YCV-1045	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86A1/PPLS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	DHR	MS
AI-30B(ESF)	F 2899A	86A1/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV 725A	86A1/SIAS	9817	AJ-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86A1/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86A1/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	10	AUX/CCW	VA-CR
Al-30B(ESF)	HCV-2899A	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-725A	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	0	AUX/CCW	VA-CR
Al-30B(ESF)	TCV-894	86A1/VIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW
AI-30B(ESF)	VA-46B	86A1/VIAS	9817	Al-30B(ESF)	77	1036	AI-41A-13	10	AUX/OCW	VA-CR
AI-30B(ESF)	FCV-269	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	RC	CH

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Al-Jobeles HCV-257	BOX	ASSE	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
Al-Joneser HCV-266	AI-30B(ESF)	HCV-257	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	RC	CH	
Al-30B(ESF) HCV-26S 86A1,XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 INV&P CH	11-30B(ESF)	HCV-258	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH	
Al-JongleSP HCV-265 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 AUXCCW AC-CCW Al-JongleSP HCV-490B 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 AUXCCW AC-CCW Al-JongleSP HCV-490B 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 AUXCCW AC-CCW Al-JongleSP HCV-492A 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 AUXCCW AC-CCW Al-JongleSP HCV-492B 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 AUXCCW AC-CCW Al-JongleSP LCV-218-2 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 AUXCCW AC-CCW Al-JongleSP LCV-218-2 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 7 INV.R.P. CH Al-JongleSP RC-4HTRS-1 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 21 PC EE-5 Al-JongleSP RC-4HTRS-1 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 21 PC EE-5 Al-JongleSP RC-4HTRS-1 86Al XSIAS 9817 Al-JongleSP 77 1036 Al-4IA-13 21 PC EE-5 Al-JongleSP VCV-871G 86AX/OPLS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP VCV-871G 86AX/OPLS 24062 CB-4 AUX 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP PCV-269 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP PCV-269 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP PCV-269 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP PCV-269 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP PCV-269 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP PCV-269 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 DHR MS Al-JongleSP HCV-265 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-03 7 Al-JongleSP RCV-489B 86AX/SIAS 9806 Al-JongleSP 77 1036 Al-4IA-06 7 Al-JongleSP RCV-489B	AI-30B(ESF)	HCV-264	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	RC	CH	
Al-Jobeles HCV-490B 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 7 AUXCCCW AC-CCW Al-Jobeles HCV-492B 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 7 AUXCCW AC-CCW Al-Jobeles HCV-492B 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 7 AUXCCW AC-CCW Al-Jobeles HCV-492B 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 7 AUXCCW AC-CCW Al-Jobeles LCV-218-2 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 7 INV.R.P CH Al-Jobeles Al-Jobeles RC-4-HTRS-10 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 21 PC EE-5 Al-Jobeles RC-4-HTRS-12 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 21 PC EE-5 Al-Jobeles RC-4-HTRS-12 86A1XSIAS 9817 Al-Jobeles 77 1036 Al-JAL-13 21 PC EE-5 Al-Jobeles YCV-871G 86AX-SCIS 24062 CB-4-AUX 77 1036 Al-JAL-06 0 AUXEDG VA-EDL CB-4-AUX HCV-1042A 86AX-SCIS 24062 CB-4-AUX 77 1036 Al-JAL-03 7 DHR MS Al-JObeles HCV-258 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-258 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-258 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-26 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-26 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-26 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-26 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-26 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-26 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 RC CH Al-JOALES HCV-28 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 AUXCCCW AC-CCW Al-JOALES HCV-491 86AX-SIAS 9806 Al-JOALES 77 1036 Al-JAL-06 7 AUXCCCW AC-CCW Al-JOALES	A1-308(ESF)	HCV-265	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH	
Al-30RESF HCV-492A	AI-30B(ESF)	HCV-490A	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW	
Al-30B(ESF) HCV-492B 86A1XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 7 NAVR_P CH Al-30B(ESF) LCV-218-2 86A1XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4-HTRS-10 86A1XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4-HTRS-11 86A1XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4-HTRS-12 86A1XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4-HTRS-12 86A1XSIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30A(ESF) YCV-871G 86AX/OPLS 9806 Al-30A(ESF) 77 1036 Al-41A-06 0 ALXEDG VA-EDL CB-4-AUX HCV-1042A 86AX/SIIS 24062 CB-4-AUX 77 1036 Al-41A-03 7 DHR MS CB-4-AUX HCV-1042A 86AX/SIIS 24062 CB-4-AUX 77 1036 Al-41A-03 7 DHR MS Al-30A(ESF) PCV-269 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-257 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-489A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RVX_P CH Al-30A(ESF) HCV-489A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-49	AI-30B(ESF)	HCV-490B	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW	
Al-30B(ESF) LCV-218-2	AI-30B(ESF)	HCV-492A	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	AUX/CCW	AC-CCW	
Al-30B(ESF) RC-4HTRS-10 86A1X/SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4HTRS-12 86A1X/SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4HTRS-12 86A1X/SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30A(ESF) YCV-871G 86AX/OPLS 9806 Al-30A(ESF) 77 1036 Al-41A-06 0 AUX/EDQ VA-EDL CB-4 AUX HCV-1042A 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS CB-4 AUX HCV-1042C 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS Al-30A(ESF) PCV-269 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-257 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-289A 56AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-289 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-289 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-489A 56AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-489A 56AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30B(ESF) RC-4HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 DIR RW-BD Al-30B(ESF) HCV-491B 86AX/SIAS 9806 Al-30B(ESF) 77 1036 Al-41B-06 7 DIR RW-BD Al-30B(ESF) HCV-388B	AI-30B(ESF)	HCV-492B	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	Al-41A-13	7	AUX/CCW	AC-CCW	
Al-30B(ESF) RC-4+TRS-11 86A1X:SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4+TRS-12 86A1X:SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30B(ESF) RC-4+TRS-12 86A1X:SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-06 0 AUX:EEG VA-EDL CB-4 AUX HCV-1042A 86AX:SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS CB-4 AUX HCV-1042C 86AX:SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS CB-4 AUX HCV-1042C 86AX:SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS Al-30A(ESF) PCV-269 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-257 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-289 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-489A 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-489A 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) HCV-489B 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) HCV-491B 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) HCV-491B 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) HCV-491B 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) RC-4+TRS-1 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) RC-4+TRS-2 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) RC-4+TRS-3 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) RC-4+TRS-1 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30A(ESF) RC-4+TRS-3 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX:CCW AC-CCW Al-30B(ESF) RC-4+TRS-3 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 AUX:CCW AC-CCW Al-30B(ESF) RC-4+TRS-3 86AX:SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 AUX:CCW AC-CCW Al-30B(ESF) HCV-389B 86BCIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7	AI-30B(ESF)	LCV-218-2	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	7	INV,R,P	CH	
Al-30B(ESF) RC-4-HTRS-12 86A1X/SIAS 9817 Al-30B(ESF) 77 1036 Al-41A-13 21 PC EE-5 Al-30A(ESF) YCV-871G 86AX/SGIS 9806 Al-30A(ESF) 77 1036 Al-41A-06 0 AUX/EDG VA-EDL CB-4 AUX HCV-1042A 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS CB-4 AUX HCV-1042C 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS Al-30A(ESF) PCV-269 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS Al-30A(ESF) HCV-257 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-257 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 1 RUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1389B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-	AI-30B(ESF)	RC-4-HTRS-10	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5	
Al-30A(ESF) YCV-871G 86AX/SGIS 9806 Al-30A(ESF) 77 1036 Al-41A-06 0 AUX/EDG VA-EDL CB-4 AUX HCV-1042A 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS CB-4 AUX HCV-1042C 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-03 7 DHR MS Al-30A(ESF) PCV-269 86AX/SGIS 24062 CB-4 AUX 77 1036 Al-41A-06 7 DHR MS Al-30A(ESF) PCV-269 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-257 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-898 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC-4-HTRS-2 RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 DHR PW-BD Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 7	AI-30B(ESF)	RC-4-HTRS-11	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21		EE-5	
CB-4 AUX HCV-1042A 86AX/SGIS 24062 CB-4 AUX 77 1036 AI-4IA-03 7 DHR MS AI-30A(CB-4 AUX HCV-1042C 86AX/SGIS 24062 CB-4 AUX 77 1036 AI-4IA-03 7 DHR MS AI-30A(CB-5) PCV-2696 86AX/SGIS 24062 CB-4 AUX 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) PCV-2696 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) HCV-257 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) HCV-258 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) HCV-264 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) HCV-265 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) HCV-498 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC CH AI-30A(CB-5) HCV-489A 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 AUX/CCW AC-CCW AI-30A(CB-5) HCV-491A 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 AUX/CCW AC-CCW AI-30A(CB-5) HCV-491A 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 AUX/CCW AC-CCW AI-30A(CB-5) HCV-491B 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 AUX/CCW AC-CCW AI-30A(CB-5) LCV-218-2 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 AUX/CCW AC-CCW AI-30A(CB-5) LCV-218-2 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 AUX/CCW AC-CCW AI-30A(CB-5) RC-4-HTRS-1 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC AUX/CCW AC-CCW AI-30A(CB-5) RC-4-HTRS-1 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC AUX/CCW AC-CCW AI-30A(CB-5) RC-4-HTRS-1 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 7 RC AUX/CCW AC-CCW AI-30A(CB-5) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 21 PC EE-5 AI-30A(CB-5) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 21 PC EE-5 AI-30A(CB-5) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 21 PC EE-5 AI-30A(CB-5) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IA-06 21 PC EE-5 AI-30A(CB-5) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(CB-5) 77 1036 AI-4IB-06 7 DHR PW-BD AI-30B(CB-5) HCV-1387B 86B/CIAS 9816 AI-30B(CB-5) 77 1036 AI-4IB-06 7 DHR PW-BD AI-30B(CB-5) HCV-1387B 86B/CIAS 9816 AI-30B(CB-5) 77 1036 AI-4IB-06 7 AUX/CCW AC-CCW AI-30B(CB-5)	AI-30B(ESF)	RC-4-HTRS-12	86A1X/SIAS	9817	AI-30B(ESF)	77	1036	AI-41A-13	21	PC	EE-5	
CB-4 AUX HCV-1042C 86AX/SGIS 24062 CB-4 AUX 77 1036 AI-41A-03 7 DHR MS AI-30A(ESF) FCV-269 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 RC CH AI-30A(ESF) HCV-257 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 RC CH AI-30A(ESF) HCV-258 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 INV.R.P CH AI-30A(ESF) HCV-264 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 INV.R.P CH AI-30A(ESF) HCV-265 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 RC CH AI-30A(ESF) HCV-265 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 INV.R.P CH AI-30A(ESF) HCV-489A S6AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 INV.R.P CH AI-30A(ESF) HCV-489B 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 AUX/CCW AC-CCW AI-30A(ESF) HCV-491B 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 AUX/CCW AC-CCW AI-30A(ESF) HCV-491B 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 AUX/CCW AC-CCW AI-30A(ESF) HCV-291B 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 AUX/CCW AC-CCW AI-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 INV.R.P CH AI-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 7 INV.R.P CH AI-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 1 INV.R.P CH AI-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 21 PC EE-5 AI-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 21 PC EE-5 AI-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 21 PC EE-5 AI-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41A-06 21 PC EE-5 AI-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 AI-30A(ESF) 77 1036 AI-41B-06 0 AUX/ECW AC-CCW AI-30B(ESF) HCV-3018 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCW-1387B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCW-3099A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCW-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCW-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCW-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI	AI-30A(ESF)	YCV-871G	86AX/OPLS	9806	AI-30A(ESF)	77	1036	Al-41A-06	0	AUX/EDG	VA-EDL	
Al-30A(ESF) PCV-269 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-278 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-899A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) HCV-899A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-389B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-4008 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4008 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4008 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4008 86B/CIAS 9816 Al-30B(ESF) 77 103	CB-4 AUX	HCV-1042A	86AX/SGIS	24062	CB-4 AUX	77	1036	Al-41A-03	7	DHR	MS	
Al-30A(ESF) HCV-257 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC Al-30A(ESF) HCV-289A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC Al-30A(ESF) HCV-489A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) RC-4-HTRS-3 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-4	CB-4 AUX	HCV-1042C	86AX/SGIS	24062	CB-4 AUX	77	1036	AI-41A-03	7	DHR	MS	
Al-30A(ESF) HCV-258 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 RC CH Al-30A(ESF) HCV-489A 66AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-218-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-218-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1388 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1388 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	PCV-269	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH	
Al-30A(ESF) HCV-264 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 RC CH Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 INV.R.P CH Al-30A(ESF) HCV-489A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-49IA 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-49IB 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-23B-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 INV.R.P CH Al-30A(ESF) LCV-23B-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 7 INV.R.P CH Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IA-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-4IB-06 0 AUX/EDG VA-EDL Al-30B(ESF) HCV-871G 86AX/SIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 0 AUX/EDG VA-EDL Al-30B(ESF) HCV-1387B 86B-CR/1AD2 9818 Al-30B(ESF) 77 1036 Al-4IB-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4000 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	HCV-257	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH	
Al-30A(ESF) HCV-265 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV,R,P CH Al-30A(ESF) HCV-489A 66AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-49B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-2;8-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV,R,P CH Al-30A(ESF) LCV-2;8-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV,R,P CH Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 0 AUX/EDG VA-EDL Al-30B(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B-OR/1AD2 9818 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B-CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	HCV-258	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH	
Al-30A(ESF) HCV-489A	AI-30A(ESF)	HCV-264	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	RC	CH	
Al-30A(ESF) HCV-489B 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491A 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-2;8-2 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P. CH Al-30A(ESF) RC-4-HTRS-1 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 0 AUX/EDG VA-EDL Al-30A(ESF) Al-30A(ESF) RC-4-HTRS-3 86A X/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 0 AUX/EDG VA-EDL Al-30A(ESF) 1A-41 86B-OR/IAD1 9808 Al-30A(D1) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B-OR/IAD2 9818 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7	AI-30A(ESF)	HCV-265	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH	
Al-30A(ESF) HCV-491A 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-2:18-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-109A YCV-871G 86AX/CPLS 12280 Al-109A 56 1011 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/CPLS 12280 Al-109A 56 1011 Al-41A-06 0 AUX/EDG VA-EDL Al-30A(D1) 1A3-20 86B-OR/1AD1 9808 Al-30A(D1) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-1388B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	HCV-489A	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
Al-30A(ESF) HCV-491B 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 AUX/CCW AC-CCW Al-30A(ESF) LCV-2;8-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 0 AUX/EDG VA-EDL Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41B-06 0 AUX/EDG VA-EDL Al-30A(D1) 1A3-20 86B-OR/1AD1 9808 Al-30A(D1) 77 1036 Al-41B-13 3 AUX/EE DG Al-30B(D2) 1A4-1 86B-OR/1AD2 9818 Al-30B(D2) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	HCV-489B	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
Al-30A(ESF) LCV-218-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 7 INV.R.P CH Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-109A YCV-871G 86AX/2OPLS 12280 Al-109A 56 1011 Al-41A-06 0 AUX/EDG VA-EDL Al-30A(D1) 1A3-20 86B-OR/1AD1 9808 Al-30A(D1) 77 1036 Al-41B-13 3 AUX/EE DG Al-30B(D2) 1A4-1 86B-OR/1AD2 9818 Al-30B(D2) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	HCV-491A	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/CCW	AC-CCW	
Al-30A(ESF) RC-4-HTRS-1 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-109A YCV-871G 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-109A YCV-871G 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 0 AUX/EDG VA-EDL Al-30A(D1) 1A3-20 86B-OR/1AD1 9808 Al-30A(D1) 77 1036 Al-41B-13 3 AUX/EE DG Al-30B(D2) 1A4-1 86B-OR/1AD2 9818 Al-30B(D2) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	HCV-491B	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AJ-41A-06	7	AUX/CCW	AC-CCW	
Al-30A(ESF) RC-4-HTRS-2 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-109A YCV-871G 86AX2/OPLS 12280 Al-109A 56 1011 Al-41A-06 0 AUX/EDG VA-EDL Al-30A(D1) 1A3-20 86B-OR/1AD1 9808 Al-30A(D1) 77 1036 Al-41B-13 3 AUX/EE DG Al-30B(D2) 1A4-1 86B-OR/1AD2 9818 Al-30B(D2) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	LCV-218-2	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	7	INV,R,P	CH	
Al-30A(ESF) RC-4-HTRS-3 86AX/SIAS 9806 Al-30A(ESF) 77 1036 Al-41A-06 21 PC EE-5 Al-109A YCV-871G 86AX2/OPLS 12280 Al-109A 56 1011 Al-41A-06 0 AUX/EDG VA-EDL Al-30A(D1) 1A3-20 86B-OR/IAD1 9808 Al-30A(D1) 77 1036 Al-41B-13 3 AUX/EE DG Al-30B(D2) 1A4-1 86B-OR/IAD2 9818 Al-30B(D2) 77 1036 Al-41B-06 3 AUX/EE DG Al-30B(ESF) HCV-1387B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2899A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-2899B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400C 86B/CIAS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	RC-4-HTRS-1	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5	
AI-109A YCV-87IG 86AX2/OPLS 12280 AI-109A 56 1011 AI-41A-06 0 AUX/EDG VA-EDL AI-30A(D1) 1A3-20 86B-OR/1AD1 9808 AI-30A(D1) 77 1036 AI-41B-13 3 AUX/EE DG AI-30B(D2) 1A4-1 86B-OR/1AD2 9818 AI-30B(D2) 77 1036 AI-41B-06 3 AUX/EE DG AI-30B(ESF) HCV-1387B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-1388B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	RC-4-HTRS-2	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5	
AI-30A(D1) 1A3-20 86B-OR/1AD1 9808 AI-30A(D1) 77 1036 AI-41B-13 3 AUX/EE DG AI-30B(D2) 1A4-1 86B-OR/1AD2 9818 AI-30B(D2) 77 1036 AI-41B-06 3 AUX/EE DG AI-30B(ESF) HCV-1387B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30A(ESF)	RC-4-HTRS-3	86AX/SIAS	9806	AI-30A(ESF)	77	1036	AI-41A-06	21	PC	EE-5	
AI-30B(D2) 1A4-1 86B-OR/1AD2 9818 AI-30B(D2) 77 1036 AI-41B-06 3 AUX/EE DG AI-30B(ESF) HCV-1387B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-109A	YCV-871G	86AX2/OPLS	12280	AI-109A	56	1011	Al-41A-06	0	AUX/EDG	VA-EDL	
AI-30B(D2) 1A4-1 86B-OR/1AD2 9818 AI-30B(D2) 77 1036 AI-41B-06 3 AUX/EE DG AI-30B(ESF) HCV-1387B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30A(D1)	1A3-20	86B-OR/IAD1	9808	AI-30A(D1)	77	1036	AI-41B-13	3	AUX/EE	DG	
Al-30B(ESF) HCV-1388B 86B/CIAS 9816 AJ-30B(ESF) 77 1036 AI-41B-06 7 DHR FW-BD Al-3CB(ESF) HCV-2899A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	A1-30B(D2)	1A4-1	86B-OR/1AD2	9818	AI-30B(D2)	. 77	1036	AI-41B-06	3	AUX/EE		
AI-30B(ESF) HCV-2899A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-1387B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD	
AI-30B(ESF) HCV-2899B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	Al-30B(ESF)	HCV-1388B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD	
AI-30B(ESF) HCV-400A 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	Al-3CB(ESF)	HCV-2899A	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW	
AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-2899B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW	
AI-30B(ESF) HCV-400B 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	Al-30B(ESF)	HCV-400A	86B/CIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW	
AI-30B(ESF) HCV-400C 86B/CIAS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	Al-30B(ESF)	HCV-400B	86B/CIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7			
	AI-30B(ESF)	HCV-400C	86B/CIAS	9816		77	1036	AI-41B-06	7			
	AI-30B(ESF)	HCV-400D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW	

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-401A	86B/CIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/OCW	AC-CCW
AI-30B(ESF)	HCV-401C	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402∆	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402B	86B/CIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86B/CIAS	9816	A1-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403A	86B/CIAS	9816	AI-30B(ESF)	77	1036	A1-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A'-30B(ESF)	HCV-438B	86B/CIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AJ-30B(ESF)	HCV-438D	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A'-30B(ESF)	PCV-841B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-NOB(ESF)	TCV-894	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30b(ESF)	VA-46B	86B/CIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ENF)	1A3-10	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-16	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	FW-AFW
AI-30B(ESF)	1A3-20	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A3-9	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
Al-30B(ESF)	IA4-1	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A4-11	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1B3A-4	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
A1-30B(ESF)	1B3A-7	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
A1-30B(ESF)	1B3B-4	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B3B-4B-5	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B3C-4C-4	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4C-6	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B4C-8	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(ESF)	DG-1	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	DG-2	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	PCV-269	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	СН
AI-30B(ESF)	HCV-1041A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	HCV-1041C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
Al-30B(ESF)	HCV-1042A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	HCV-1042C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-1385	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW
AI-30B(ESF)	HCV-1386	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW
A1-30B(ESF)	HCV-1387B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-1388B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	FW-BD
AI-30B(ESF)	HCV-2504A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
A1-30B(ESF)	HCV-2506A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV	SL-PRI
AI-30B(ESF)	HCV-2507A	86B/CPHS	9816	AI-30B(ESF)	11	1036	AI-41B-06	7	INV	SL-PRI
AI-30B(ESF)	HCV-257	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	HCV-258	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	HCV-264	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	RC	CH
AI-30B(ESF)	HCV-265	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	HCV-2899A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-400A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-400B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/OCW	AC-CCW
AI-30B(ESF)	HCV-400C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-400D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401A	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401B	86B/CPHS	9816	Al-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-401D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402A	86B/CPHS	9816	AI-30B(ESF)	77	1036	A1-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-402B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402C	86B/CPHS	9816	AI-30B(ESF)	77	1036	Ai-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-402D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-403A	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403C	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-403D	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86R/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-724A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
Al-30B(ESF)	HCV-725A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	LCV-218-2	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	PCV-841B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	RC-4-HTRS-10	86B/CPHS	9816	Al-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	RC-4-HTRS-11	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	VA-46B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	YCV-1045	86B/CPHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045B	86B/CPHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	HCV-2899A	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-724A	86B/CRHS	9816	AI-30B(ESF)	77	1036	Al-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-725A	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/CRHS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	HCV-2899A	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-724A	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-725A	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86B/CSAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/CSAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	10	AUX/CCW	VA-CR
AI-30A(D1)	1A3-20	86B/D1	9808	AI-30A(D1)	77	1036	AI-41B-13	3	AUX/EE	DG
AI-30A(D1)	DG-1	86B/D1	9808	Al-30A(D1)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30B(D2)	1A4-1	86B/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	3	AUX/FE	DG
A1-30B(D2)	DG-2	86B/D2	9818	AI-30B(D2)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	1A3-10	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A3-16	86B/OPLS	16951	AI-30B(ESF)	77	1036	Al-41B-06	3	AUX/EE	FW-AFW
AI-30B(ESF)	1A3-20	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A3-9	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	IA4-1	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG
AI-30B(ESF)	1A4-11	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
AI-30B(ESF)	1A4-12	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW
A1-30B(ESF)	1B3A-4	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B3A-7	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(ESF)	1B3B-4	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
Al-30B(ESF)	1B3B-4B-5	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
Al-30B(ESF)	1B3C-4C-4	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4A-1	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW
AI-30B(ESF)	1B4C-6	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH
AI-30B(ESF)	1B4C-8	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON
AI-30B(ESF)	DG-1	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
A1-30B(ESF)	DG-2	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG
AI-30B(ESF)	YCV-871G	86B/OPLS	16951	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/EDG	VA-EDL.
A1-30B(ESF)	1A3-10	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW

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Al-John Al-J	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
Al-Jobers 1A-J-9 86B/PPLS 9816 Al-Jobers 77 1036 Al-JB-06 3 AUXEE AC-RW	AI-30B(ESF)	1A3-16	86B/PPLS	9816	AI-30B(ESF)	77	1036	Ai-41B-06	3	AUX/EE	FW-AFW	
Al-JORIESF 1A4-11 86B-PPLS 9816 Al-JORIESF 77 1036 Al-41B-06 3 ALIXEE DG	AI-30B(ESF)	1A3-20	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG	
Al-JORIESF) 1A4-11 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 3 AUX'EE AC-RW Al-JORIESF) 1BA-4 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-4 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-7 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) 1BA-8 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) DC-1 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 2 AUX'EE CH Al-JORIESF) DC-1 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 17 AUX'EEG DG Al-JORIESF) DC-2 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 17 AUX'EEG DG Al-JORIESF) DC-2 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-259 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-259 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-2504 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-2504 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-2504 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-2504 86BPPLS 9816 Al-JORIESF) 77 1036 Al-41B-06 7 NEC CH Al-JORIESF) PC-2504 86BPPLS 9816 Al-J	AI-30B(ESF)	1A3-9	86B/PPLS	9816	AI-30B(ESF)	77	1036	Al-41B-06	3	AUX/EE	AC-RW	
Al-JORIESE 1A4-12 86R-PPLS 9816 Al-JORIESE 77 1036 Al-JIB-06 2 AUNYEE CH	AI-30B(ESF)	1A4-1	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	DG	
Al-Jobeles IB3.4 86B-PPLS 9816 Al-Jobeles 77 1036 Al-JB-06 2 AUX-EE CH	AI-30B(ESF)	1A4-11	86B/PPLS	9816	Al-30B(ESF)	77	1036	Al-41B-06	3	AUX/EE	AC-RW	
Al-30B(ESF) IB3A-7 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE VA-CON Al-30B(ESF) 1B3B-4B-5 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE CH Al-30B(ESF) 1B3B-4B-5 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE CH Al-30B(ESF) 1B3B-4B-5 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE CH Al-30B(ESF) 1B3B-4B-5 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE AC-CCW Al-30B(ESF) 1B4A-1 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE AC-CCW Al-30B(ESF) 1B4A-1 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE CH Al-30B(ESF) 1B4A-1 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE CH Al-30B(ESF) DG-1 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE VA-CON Al-30B(ESF) DG-1 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 AUXEED DG Al-30B(ESF) DG-1 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 AUXEED DG Al-30B(ESF) DG-2 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 AUXEED DG Al-30B(ESF) PCV-269 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-1387B 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-8D Al-30B(ESF) HCV-1387B 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-8D Al-30B(ESF) HCV-2504A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-8D Al-30B(ESF) HCV-2504A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-8D Al-30B(ESF) HCV-2504A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B(PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUXCCCW AC-CCW Al-30B(ESF) HCV-400B 86B(PPLS 981	AI-30B(ESF)	1A4-12	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	3	AUX/EE	AC-RW	
Al-30B(ESF)	AI-30B(ESF)	1B3A-4	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH	
Al-JOBEESF) 1B3-B-5 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 2 AUX/EE CH Al-JOBEESF) 1B4C-1 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 2 AUX/EE AC-CCW Al-JOBEESF) 1B4C-6 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 2 AUX/EE AC-CCW Al-JOBEESF) 1B4C-6 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 2 AUX/EE CH Al-JOBEESF) 1B4C-8 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 2 AUX/EE CH Al-JOBEESF) 1B4C-8 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 2 AUX/EE CH Al-JOBEESF) DG-1 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 17 AUX/EDG DG Al-JOBEESF) DG-1 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 17 AUX/EDG DG Al-JOBEESF) DG-1 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 RC CH Al-JOBEESF) HCV-187B 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 DHR FW-BD Al-JOBEESF) HCV-187B 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 DHR FW-BD Al-JOBEESF) HCV-187B 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 DHR FW-BD Al-JOBEESF) HCV-2504A 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2506A 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2507A 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2507A 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2507A 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2507A 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV-SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV-SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV-SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 INV-SL-PRI Al-JOBEESF HCV-2508 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 AUX/CCW AC-CCW Al-JOBEESF HCV-400C 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 AUX/CCW AC-CCW Al-JOBEESF HCV-400C 86B-PPLS 9816 Al-JOBEESF) 77 1036 Al-JB-06 7 AUX/C	AI-30B(ESF)	1B3A-7	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON	
Al-30B(ESF) 1BB-B-5 86B-PFLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 AUXEE CH	AI-30B(ESF)	1B3B-4	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW	
Al-30B(ESF) IB4A-1 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 ALIXIEE AC-CCW Al-30B(ESF) 1B4C-6 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 ALIXIEE CH Al-30B(ESF) 1B4C-8 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 2 ALIXIEE CH Al-30B(ESF) DG-1 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 ALIXIED DG Al-30B(ESF) DG-2 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 ALIXIED DG Al-30B(ESF) DG-2 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) FCV-269 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-1387B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2304A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2504A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2504A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-256 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV/R.P CH Al-30B(ESF) HCV-264 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV/R.P CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV/R.P CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF) HCV-40D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF) HCV-40D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF) HCV-40D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF) HCV-40D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF) HCV-40D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF) HCV-40D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 ALIXICCW AC-CCW Al-30B(ESF)	AI-30B(ESF)	1B3B-4B-5	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE		
Al-30B(ESF) IB4C-6 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 2 AUX/EE CH Al-30B(ESF) IB4C-8 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 2 AUX/EE VA-CON Al-30B(ESF) DC-1 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 17 AUX/EDG DG Al-30B(ESF) DC-2 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 17 AUX/EDG DG Al-30B(ESF) DC-2 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 RC CH Al-30B(ESF) HCV-1387B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 DHR PW-BD Al-30B(ESF) HCV-1387B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 DHR PW-BD Al-30B(ESF) HCV-2504A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV SL-PRI Al-30B(ESF) HCV-250 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV,R,P CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 INV,R,P CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4010 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-4010 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-4IB-06 7 AUX/CCW AC-C	AI-30B(ESF)	1B3C-4C-4	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW	
Al-30B(ESF)	AI-30B(ESF)	1B4A-1	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	AC-CCW	
Al-30B(ESF) DG-1 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 AUX/EDG DG Al-30B(ESF) FCV-269 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 AUX/EDG DG Al-30B(ESF) FCV-269 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-1387B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2504A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-264 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-2699 A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV-RP CH Al-30B(ESF) HCV-2699 A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW	AI-30B(ESF)	1B4C-6	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	CH	
AL-30B(ESF) DG-2 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 RC CH AL-30B(ESF) EV-269 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 RC CH AL-30B(ESF) HCV-1387B 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 DHR PW-BD AL-30B(ESF) HCV-2504A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 DHR PW-BD AL-30B(ESF) HCV-2504A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV SL-PRI AL-30B(ESF) HCV-2506A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV SL-PRI AL-30B(ESF) HCV-2506A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV SL-PRI AL-30B(ESF) HCV-2507A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV SL-PRI AL-30B(ESF) HCV-2507A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV SL-PRI AL-30B(ESF) HCV-258 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV,R.P. CH AL-30B(ESF) HCV-258 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV,R.P. CH AL-30B(ESF) HCV-264 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV,R.P. CH AL-30B(ESF) HCV-264 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV,R.P. CH AL-30B(ESF) HCV-265 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV,R.P. CH AL-30B(ESF) HCV-265 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 INV,R.P. CH AL-30B(ESF) HCV-269 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-40/A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-40/A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-400D 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-400D 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-401A 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-401B 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-401B 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-401B 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-401B 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW AL-30B(ESF) HCV-402B 86B/PLS 9816 AL-30B(ESF) 77 1036 AL-41B-06 7 ALVX/CCW AC-CCW A	AI-30B(ESF)	1B4C-8	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	2	AUX/EE	VA-CON	
Al-30B(ESF) DG-2 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 17 AUX/EDG DG Al-30B(ESF) FCV-269 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-1387B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-2504A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR PW-BD Al-30B(ESF) HCV-2504A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2506A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-258 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-258 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P CH Al-30B(ESF) HCV-264 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P CH Al-30B(ESF) HCV-265 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P CH Al-30B(ESF) HCV-269 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P CH Al-30B(ESF) HCV-269 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P CH Al-30B(ESF) HCV-2899 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HC	AI-30B(ESF)	DG-1	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG	DG	
Al-30B(ESF) HCV-1387B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-1388B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 DHR FW-BD Al-30B(ESF) HCV-2506A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-257 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-264 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV,R.P CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV,R.P CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-40/A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7	AI-30B(ESF)	DG-2	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	17	AUX/EDG		
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Al-30B(ESF) HCV-2507A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV SL-PRI Al-30B(ESF) HCV-257 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P. CH Al-30B(ESF) HCV-264 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P. CH Al-30B(ESF) HCV-2899A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV.R.P. CH Al-30B(ESF) HCV-40VA 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	A1-30B(ESF)	HCV-2506A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV		
Al-30B(ESF) HCV-257 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV,R,P CH Al-30B(ESF) HCV-264 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV,R,P CH Al-30B(ESF) HCV-2899 A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV,R,P CH Al-30B(ESF) HCV-40/A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-40/A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-2507A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV		
Al-30B(ESF) HCV-258 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-264 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 RC CH Al-30B(ESF) HCV-265 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 INV,R,P CH Al-30B(ESF) HCV-2899A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-40/A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PPLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-257	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC		
AI-30B(ESF) HCV-264 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 RC CH AI-30B(ESF) HCV-265 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 INV,R,P CH AI-30B(ESF) HCV-2899A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-40/A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-258	86B/PPLS	9816	AI-30B(ESF)	77	1036	A1-41B-06	7	INV.R.P		
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AI-30B(ESF) HCV-2899A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-40/A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-265	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV.R.P		
AI-30B(ESF) HCV-40/A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-400D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-2899A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	The second second		
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Al-30B(ESF) HCV-400C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-400D 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-430B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7			
AI-30B(ESF) HCV-401D 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401B 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401C 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402A 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-400C	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7			
AI-30B(ESF) HCV-401A 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401B 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401C 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402A 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-400D	86B/PPLS	9816	AI-30B(ESF)	77	1036		7			
AI-30B(ESF) HCV-401B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-401D 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-401A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7			
Al-30B(ESF) HCV-401C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-401D 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-401B	86B/PPLS	9816	AI-30B(ESF)	77	1036		7			
Al-30B(ESF) HCV-401D 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402A 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402B 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW Al-30B(ESF) HCV-402C 86B/PLS 9816 Al-30B(ESF) 77 1036 Al-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-401C	86B/PPLS	9816	Al-30B(ESF)	77	1036		7			
AI-30B(ESF) HCV-402A 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-401D	86B/PPLS	9816	AI-30B(ESF)	77	1036		7			
AI-30B(ESF) HCV-402B 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-402A	86B/PPLS	9816			1036					
AI-30B(ESF) HCV-402C 86B/PPLS 9816 AI-30B(ESF) 77 1036 AI-41B-06 7 AUX/CCW AC-CCW	AI-30B(ESF)	HCV-402B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7			
The same of the sa	AI-30B(ESF)	HCV-402C	86B/PPLS	9816		77	1036		7			
	AI-30B(ESF)	HCV-402D	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	HCV-403A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-403B	86B/PPLS	9816	AI-30B(ESF)	77	1036	Aí-41B-65	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-403C	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
A1-30B(ESF)	HCV-403D	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-438D	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
Al-30B(ESF)	HCV-492A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30R(ESF)	HCV-724A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-725A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	LCV-218-2	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	PCV-841B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	RC-4-HTRS-10	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86B/PPLS	9816	Al-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	VA-46B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	YCV-1045	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
AI-30B(ESF)	YCV-1045A	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
Al-30B(ESF)	YCV-1045B	86B/PPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	DHR	MS
CB-4 AUX	HCV-1041A	86B/SGIS	24061	CB-4 AUX	77	1036	AI-41B-03	7	DHR	MS
CB-4 AUX	HCV-1041C	86B/SGIS	24061	CB-4 AUX	77	1036	AI-41B-03	7	DHR	MS
CB-4 AUX	HCV-1386	86B/SGIS	24061	CB-4 AUX	77	1036	AI-41B-03	7	DHR	FW
CB-4	HCV-1041A	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1041C	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1042A	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1042C	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	MS
CB-4	HCV-1385	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	FW
CB-4	HCV-1386	86B/SGLS	9800	CB-4	77	1036	AI-41B-03	7	DHR	FW
AI-30B(ESF)	HCV-2899A	86B/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-724A	86B/SIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-725A	86B/SIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
A1-30B(ESF)	PCV-841B	86B/SIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR
AI-30B(ESF)	VA-46B	86B/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30B(ESF)	HCV-2899A	86B/VIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-2899B	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-725A	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	PCV-841B	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30B(ESF)	TCV-894	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AJ-30B(ESF)	VA-46B	86B/VIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	10	AUX/CCW	VA-CR
AI-30A(ESF)	HCV-1387A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86B1 CIAS	9807	AI-30A(ESF)	77	1936	AI-41B-13	7	DHR	FW-BD
Al-30A(ESF)	HCV-2504A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2898A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-2898B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-100B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-401B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-402A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86B1/ClAS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402D	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403C	86B1/CIAS	9807	AI-30A(ESF)	.77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403D	8631/CIAS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86B1/CIAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	PCV-840B	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13 '	0	AUX/CCW	VA-CR
Al-30A(ESF)	TCV-202	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	СН
AI-30A(ESF)	TCV-893	86B1/CIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	VA-46A	86B1/CIAS	9807	Al-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	1A3-10	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	. 3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-16	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-20	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	DG
AI-30A(ESF)	1A3-9	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1B3A-4	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	СН
AI-30A(ESF)	1B3A-7	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3B-4	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4B-5	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	1B3C-4C-4	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	DG-1	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30A(ESF)	FCV-269	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	PC	CH
AI-30A(ESF)	HCV-1042A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	MS
AI-30A(ESF)	HCV-1042C	86B1/CPHS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	DHR	MS
AI-30A(ESF)	HCV-1385	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW
AI-30A(ESF)	HCV-1387A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-2504A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-257	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-258	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV.R.P	CH
AI-30A(ESF)	HCV-264	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-265	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	HCV-2898A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-401D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-402C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-402D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-403B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-403C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF)	HCV-403D	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-438C	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	0	AUX/CCW	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	LCV-218-2	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	PCV-840B	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
A1-30A(ESF)	RC-4-HTRS-1	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86B1/CPHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	21	PC	EE-5
AI-30A(ESF)	TCV-202	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	CH
AI-30A(ESF)	VA-46A	86B1/CPHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	HCV-2898A	86B1/CRHS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CON
A!-30A(ESF)	PCV-840B	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/CRHS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	HCV-2898A	86B1/CSAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CON
AI-30A(ESF)	PCV-840B	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	0	AUX/CCW	VA-CR
AI-30A(ESF)	VA-46A	86B1/CSAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	10	AUX/CCW	VA-CR
AI-30A(ESF)	1A3-10	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1A3-16	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	FW-AFW
AI-30A(ESF)	1A3-20	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	DG
AI-30A(ESF)	1A3-9	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	3	AUX/EE	AC-RW
AI-30A(ESF)	1B3A-4	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(ESF)	1B3A-7	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	VA-CON
AI-30A(ESF)	1B3B-4	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	1B3B-4B-5	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	CH
AI-30A(ESF)	1B3C-4C-4	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	2	AUX/EE	AC-CCW
AI-30A(ESF)	DG-1	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	17	AUX/EDG	DG
AI-30A(ESF)	FCV-269	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-1387A	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-1388A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	DHR	FW-BD
AI-30A(ESF)	HCV-2504A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2506A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-2507A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV	SL-PRI
AI-30A(ESF)	HCV-257	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-258	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	HCV-264	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-265	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	CH
AI-30A(ESF)	HCV-2898A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-400C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW

A-JOAGESP HCV-40DL 88B IPPLS 9907 A-JOAGESP 77 1036 A-J-18-13 7 AUXCCW AC-CCW	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A-1-30A(ESF) HCV-401B 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-401D 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-402A 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-402A 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-402C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-402C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-402C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-403C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-403C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-403C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-403C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-403C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-403C 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-438A 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-489B 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-489B 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-489B 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-489B 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF) HCV-489B 86BLPPLS 9807 A-1-30A(ESF) 77 1036 A-1-41B-13 7 ALDCCCW AC-CCW A-1-30A(ESF	AI-30A(ESF)	HCV-400D	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-Journess HCV-401C 86B1PPLS 9807 Al-Journess 77 1016 Al-41B-13 7 AUXCCW AC-CCW Al-Journess 86B1PPLS 9807 Al-Journess 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-Journess 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-Journess 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-Journess 78 1036 Al-41B-13 7 AUXCCW AC-CCW Al-Journess 79 1036 Al-41B-13 7 AUXCCW AC-CCW Al-Jour	AI-30A(ESF)	HCV-401A	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
A-JOA(ESF) HCV-402D 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-402B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-402C 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-402C 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-402C 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-403D 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-403D 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-403D 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-403D 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-438C 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-438C 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-438C 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-489B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-491B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW AL-30A(ESF) HCV-491B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUXCCW AC-CCW AL-30A(ESF) HCV-491B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 PC EE-5 Al-30A(ESF) HCV-491B 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 PC EE-5 Al-30A(ESF) TCV-30A 86B1PPLS 9807 Al-30A(ESF) 77 1036 Al-4	AI-30A(ESF)	HCV-401B	86B1/PPLS	9807	Al-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-JOA(ESF) HCV-402A 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-402C 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-402C 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-402D 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-402D 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-403B 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-403B 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-403B 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-403D 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-403D 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-438C 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-438C 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-438C 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-438C 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-438D 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-438D 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-49IA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-49IA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-49IA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-49IA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-49IA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-JOA(ESF) HCV-49IA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 0 AUXCCW AC-CCW Al-JOA(ESF) HCV-29AA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 0 AUXCCW AC-CCW Al-JOA(ESF) HCV-29AA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 0 AUXCCW AC-CCW Al-JOA(ESF) HCV-29AA 86B1;PPLS 9807 Al-JOA(ESF) 77 1036 Al-41B-13 0 AUXCCW AC-	AI-30A(ESF)	HCV-401C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
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Al-30A(ESF) HCV-403D 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403D 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403D 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403D 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-438A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-80B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-80B 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) TCV-80B 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) TCV-80B 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) TCV-202 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-	AI-30A(ESF)	HCV-402B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
Al-30A(ESF) HCV-403A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403C 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-403D 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-43BA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-43BA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-43BA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-284A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-284A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUXCCW AC-CCW Al-30A(ESF) HCV-288-2 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV-EP CH Al-30A(ESF) PCV-840B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUXCCW VA-CCN Al-30A(ESF) RC-4+TTRS-2 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4+TTRS-2 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4+TTRS-3 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV-EP C EE-5 Al-30A(ESF) RC-4+TTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 17 INV-CW AC-CCW Al-30A(ESF) RC-4+TTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 17 INV-CW AC-CCW Al-30A(ESF) RC-4+TTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 17 INV-CW AC-CCW Al-30A(ESF) RC-4+TTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 17 INV-CW AC-CCW Al-30A(ESF) RC-4+TTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10	AI-30A(ESF)	HCV-402C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
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Al-30A(ESF) HCV-403C 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-43SA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-43SA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-43SA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-43SA 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) HCV-491B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 PC EE-5 Al-30A(ESF) RC-4-HTRS-1 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 PC EE-5 Al-30A(ESF) WA-46A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 NIV CH Al-30A(ESF) WA-46A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-880B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF)	AI-30A(ESF)	HCV-403B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7		
Al-30A(ESF) HCV-493D 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-438C 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-438C 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-489A 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-489B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-491A 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-491B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW Al-30A(ESF) HCV-724A 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 ALUXCCW VA-CON Al-30A(ESF) HCV-724B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 ALUXCCW VA-CON Al-30A(ESF) PCV-840B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 ALUXCCW VA-CON Al-30A(ESF) PCV-840B 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 1 DALUXCCW VA-CON Al-30A(ESF) RC-4-HTRS-2 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) TCV-202 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CM Al-30A(ESF) TCV-202 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CM Al-30A(ESF) TCV-202 86B1/PELS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 ALUXCCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 ALUXCCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 ALUXCCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 ALUXCCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 ALUXCCW VA-CR Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 ALUXCCW AC-CCW A	AI-30A(ESF)	HCV-403C	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	
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Al-30A(ESF) HCV-2491B 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-724A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) LCV-218-2 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV.R.P. CH Al-30A(ESF) RC-4-HTRS-1 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) RC-4-HTRS-2 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) TCV-202 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) TCV-202 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CH Al-30A(ESF) HCV-2898A 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CH Al-30A(ESF) HCV-2898A 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) PCV-840B 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/S1AS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-2808 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-2808 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-2808 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV	AI-30A(ESF)	HCV-491A	86B1/PPLS	9807	AJ-30A(ESF)	77	1036	AI-41B-13	7		
Al-30A(ESF) HCV-724A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV.R.P CH Al-30A(ESF) LCV-218-2 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV.R.P CH Al-30A(ESF) PCV-840B 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) RC-4+HTRS-1 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4+HTRS-2 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4+HTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4+HTRS-3 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) TCV-202 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CH Al-30A(ESF) VA-46A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CCW Al-30A(ESF) HCV-289A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) VA-46A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-2893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-269	AI-30A(ESF)	HCV-491B	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7		
Al-30A(ESF) LCV-218-2 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV.R.P CH Al-30A(ESF) PCV-840B 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) RC-4-HTRS-1 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-2 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) RC-4-HTRS-3 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 21 PC EE-5 Al-30A(ESF) TCV-202 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CH Al-30A(ESF) VA-46A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) HCV-24A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CN Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2898 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) HCV-2698 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) VA-46A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al	AI-30A(ESF)	HCV-724A	86B1/PPLS	9807	Ai-30A(ESF)	77	1036	AI-41B-13	0		
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Al-30A(ESF) TCV-202 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 INV CH Al-30A(ESF) VA-46A 86B1/PPLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) HCV-724A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) VA-46A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-724A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-724A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR	AI-30A(ESF)	RC-4-HTRS-3	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	
Al-30A(ESF) VA-46A 86B1/PLS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-724A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) PCV-840B 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) VA-46A 86B1/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) HCV-2898A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-724A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) VA-46A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) TCV-269 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) TCV-269 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 RC CH	AI-30A(ESF)	TCV-202	86B1/PPLS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7		
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AI-30A(ESF) HCV-2898A 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 AUX/CCW AC-CCW AI-30A(ESF) HCV-2898B 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 AUX/CCW AC-CCW AI-30A(ESF) HCV-724A 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 0 AUX/CCW VA-CON AI-30A(ESF) PCV-840B 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 0 AUX/CCW VA-CR AI-30A(ESF) TCV-893 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 AUX/CCW AC-CCW AI-30A(ESF) VA-46A 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 AUX/CCW VA-CR AI-30A(ESF) PCV-269 86B1X/SIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 10 AUX/CCW VA-CR AI-30A(ESF) FCV-269 86B1X/SIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 RC CH	AI-30A(ESF)	VA-46A	86B1/SIAS	9807	AI-30A(ESF)	77	1036				
Al-30A(ESF) HCV-2898B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) HCV-724A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) VA-46A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 RC CH	AI-30A(ESF)	HCV-2898A	86B1/VIAS	9807	AI-30A(ESF)	77	1036				
Al-30A(ESF) HCV-724A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CON Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) VA-46A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 RC CH	AI-30A(ESF)	HCV-2898B	86B1/VIAS	9807	and the second second second		1036		7		
Al-30A(ESF) PCV-840B 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 0 AUX/CCW VA-CR Al-30A(ESF) TCV-893 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 AUX/CCW AC-CCW Al-30A(ESF) VA-46A 86B1/VIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 10 AUX/CCW VA-CR Al-30A(ESF) FCV-269 86B1X/SIAS 9807 Al-30A(ESF) 77 1036 Al-41B-13 7 RC CH	AI-30A(ESF)	HCV-724A	86B1/VIAS	9807	Al-30A(ESF)	77	1036		0		
AI-30A(ESF) TCV-893 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 AUX/CCW AC-CCW AI-30A(ESF) VA-46A 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 10 AUX/CCW VA-CR AI-30A(ESF) FCV-269 86B1X/SIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 RC CH	AI-30A(ESF)	PCV-840B	86B1/VIAS	9807							
AI-30A(ESF) VA-46A 86B1/VIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 10 AUX/CCW VA-CR AI-30A(ESF) FCV-269 86B1X/SIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 RC CH	AI-30A(ESF)		86B1/VIAS								
AI-30A(ESF) FCV-269 86B1X/SIAS 9807 AI-30A(ESF) 77 1036 AI-41B-13 7 RC CH	AI-30A(ESF)		86B1/VIAS								
	AI-30A(ESF)		86B1X/SIAS	9807						The same of the same of the same	

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-30A(ESF)	HCV-258	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV.R.P	CH
AI-30A(ESF)	HCV-264	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	RC	CH
AI-30A(ESF)	HCV-265	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	Al-41B-13	7	INV.R.P	CH
AI-30A(ESF)	HCV-489A	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-489B	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491A	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-491B	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	AUX/CCW	AC-CCW
AI-30A(ESF)	LCV-218-2	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	7	INV,R,P	СН
AI-30A(ESF)	RC-4-HTRS-1	86B1X/SIAS	9807	Al-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-2	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30A(ESF)	RC-4-HTRS-3	86B1X/SIAS	9807	AI-30A(ESF)	77	1036	AI-41B-13	21	PC	EE-5
AI-30B(ESF)	YCV-871G	86BX/OPLS	9816	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/EDG	VA-EDL
AI-30B(ESF)	PCV-269	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	HCV-257	86BX/SIAS	9816	Al-30B(ESF)	77	1036	AI-41B-06	7	RC	CH
AI-30B(ESF)	HCV-258	86BX/SIAS	9816	AI-30B(ESF)	77	1036	Al-41B-06	7	INV,R,P	СН
AI-30B(ESF)	HCV-264	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	RC	СН
AI-30B(ESF)	HCV-265	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	HCV-490A	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-490B	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492A	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-05	7	AUX/CCW	AC-CCW
AI-30B(ESF)	HCV-492B	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	AUX/CCW	AC-CCW
AI-30B(ESF)	LCV-218-2	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	7	INV,R,P	CH
AI-30B(ESF)	RC-4-HTRS-10	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-11	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-30B(ESF)	RC-4-HTRS-12	86BX/SIAS	9816	AI-30B(ESF)	77	1036	AI-41B-06	21	PC	EE-5
AI-109B	YCV-871G	86BX2/OPLS	43388	AI-109B	56	1011	AI-41B-06	0	AUX/EDG	VA-EDL
AI-43A	HCV-1042A	86X-A-B1/CPHS	24060	AI-43A	77	1036	NA	7	DHR	MS
AI-43A	HCV-1042C	86X-A-B1/CPHS	24060	AI-43A	77	1036	NA	7	DHR	MS
AI-43A	HCV-1385	86X-A-B1/CPHS	24060	AI-43A	77	1036	NA	7	DHR	FW
AI-43B	HCV-1041A	86X-B-A1/CPHS	5976	AI-43B	77	1036	AI-41B-08	7	DHR	MS
AI-43B	HCV-1041C	86X-B-A1/CPHS	5976	AI-43B	77	1036	AI-41B-08	7	DHR	MS
AI-43B	HCV-1386	86X-B-A1/CPHS	5976	AI-43B	77	1036	AI-41B-08	7	DHR	FW
AI-22	1A3-20	87/161-1	9410	AI-22	77	1036	NA	3	AUX/EE	DG
AI-22	DG-1	87/161-1	9410	AI-22	77	1036	NA	17	AUX/EDG	DG
A1-22	1A3-20	87/161-2	9410	A1-22	77	1036	NA	3	AUX/EE	DG
AI-22	DG-1	87/161-2	9410	AI-22	77	1036	NA	17	AUX/EDG	DG
AI-22	IA3-20	87/161-3	9410	AI-22	77	1036	NA	3	AUX/EE	DG
AI-22	DG-1	87/161-3	9410	AI-22	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	87/1AD1-1	9405	AI-24	77	1036	NA	3	AUX/EE	DG

			2							770	420
BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	М
AI-24	DG-1	87/1AD1-1	9405	AI-24	77	1036	NA	17	AUX/EDG	DG	
AI-24	1A3-20	87/1AD1-2	9405	AI-24	77	1036	NA	3	AUX/EE	DG	
AI-24	DG-1	87/IADI-2	9405	AI-24	77	1036	NA	17	AUX/EDG	DG	
AI-24	1A3-20	87/1AD1-3	9405	AI-24	77	1036	NA	3	AUX/EE	DG	
AI-24	DG-1	37/1AD1-3	9405	AI-24	77	1036	NA	17	AUX/EDG	DG	
AI-25	1A4-1	87/1AD2-1	9405	AI-25	77	1036	NA	3	AUX/EE	DG	
AI-25	DG-2	87/1AD2-1	9405	AI-25	77	1036	NA	17	AUX/EDG	DG	
AI-25	1A4-1	87/1AD2-2	9405	AI-25	77	1036	NA	3	AUX/EE	DG	
AI-25	DG-2	87/1AD2-2	9405	AI-25	77	1036	NA	17	AUX/EDG	DG	
AI-25	1A4-1	87/1AD2-3	9405	AI-25	77	1036	NA	3	AUX/EE	DG	
A1-25	DG-2	87/1AD2-3	9405	AI-25	77	1036	NA	17	AUX/EDG	DG	
AI-21	1A3-20	87/GT1-1	9407	Al-21	77	1036	NA	3	AUX/EE	DG	
AI-21	1A4-1	87/GT1-1	9407	AI-21	77	1036	NA	3	AUX/EE	DG	
AI-21	DG-1	87/GT1-1	9407	AI-21	77	1036	NA	17	AUX/EDG	DG	
AI-21	DG-2	87/GT1-1	9407	AI-21	77	1036	NA	17	AUX/EDG	DG	
AI-21	1A3-20	87/GT1-2	9407	AI-21	77	1036	NA	3	AUX/EE	DG	
AI-21	1A41	87/GT1-2	9407	AI-21	77	1036	NA	3	AUX/EE	DG	
AI-21	DG-1	87/GT1-2	9407	AI-21	77	1036	NA	17	AUX/EDG	DG	
A1-21	DG-2	87/GT1-2	9407	AI-21	77	1036	NA	17	AUX/EDG	DG	
AI-21	1A3-20	87/GT1-3	9407	AI-21	77	1036	NA	3	AUX/EE	DG	
A1-21	1A4-1	87/GT1-3	9407	AI-21	77	1036	NA	3	AUX/EE	DG	
AI-21	DG-1	87/GT1-3	9407	AI-21	77	1036	NA	17	AUX/EDG	DG	
AI-21	DG-2	87/GT1-3	9407	AI-21	77	1036	NA	17	AUX/EDG	DG	
A1-23	1A3-20	87/T1A-1-1	9407	A1-23	77	1036	NA	3	AUX/EE	DG	
AI-23	1A4-1	87/T1A-1-1	9407	AI-23	77	1036	NA	3	AUX/EE	DG	
A1-23	DG-1	87/T1A-1-1	9407	AI-23	77	1036	NA	17	AUX/EDG	DG	
AI-23	DG-2	87/T1A-1-1	9407	A1-23	77	1036	NA	17	AUX/EDG	DG	
AI-23	1A3-20	87/T1A-1-2	9407	AI-23	77	1036	NA	3	AUX/EE	DG	
AI-23	1A4-1	87/T1A-1-2	9407	AI-23	77	1936	NA	3	AUX/EE	DG	
AI-23	DG-I	87/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG	
AI-23	DG-2	87/T1A-1-2	9407	AI-23	77	1036	NA	17	AUX/EDG	DG	
AI-23	1A3-20	87/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG	
AI-23	1A4-1	87/T1A-1-3	9407	AI-23	77	1036	NA	3	AUX/EE	DG	
AI-23	DG-I	87/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG	
AI-23	DG-2	87/T1A-1-3	9407	AI-23	77	1036	NA	17	AUX/EDG	DG	
AI-26	1A3-20	87/T1A-2-1	9407	AI-26	77	1036	NA	3	AUX/EE	DG	
A1-26	1A4-1	87/T1A-2-1	9407	A1-26	77	1036	NÀ	3	AUX/EE	DG	
A1-26	DG-1	87/T1A-2-1	9407	A1-26	77	1036	NA	17	AUX/EDG	DG	
AI-26	DG-2	87/T1A-2-1	9407	AI-26	77	1036	NA	17	AUX/EDG	DG	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-26	1A3-20	87/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	1A4-1	87/T1A-2-2	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	DG-1	87/T1A-2-2	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	87/T1A-2-2	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	1A3-20	87/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	D/3
AI-26	1A4-1	87/T1A-2-3	9407	AI-26	77	1036	NA	3	AUX/EE	DG
AI-26	DG-1	87/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-26	DG-2	87/T1A-2-3	9407	AI-26	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	87/T1A-3-1	9407	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	DG-1	87/T1A-3-1	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	87/T1A-3-2	9407	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	DG-1	87/T1A-3-2	9407	AI-24	77	1036	NA	17	AUX/EDG	DG
AI-24	1A3-20	87/T1A-3-3	9407	AI-24	77	1036	NA	3	AUX/EE	DG
AI-24	DG-I	87/T1A-3-3	9407	Al-24	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-1	87/T1A-4-1	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	87/T1A-4-1	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
A1-25	1A4-1	87/T1A-4-2	9407	AI-25	77	1036	NA	3	AUX/EE	DG
AI-25	DG-2	87/T1A-4-2	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
AI-25	1A4-1	87/T1A-4-3	9407	AI-25	77	1036	NA	3	AUX/EE	DG
A1-25	DG-2	87/T1A-4-3	9407	AI-25	77	1036	NA	17	AUX/EDG	DG
89XX-3/DST1	1A3-20	89XX-3/DST1	9406	0WTD1-0N'1	TURB	1016	EE-8F	3	AUX/EE	DG
89XX-3/DST1	1A4-1	89XX-3/DST1	9406	0WTD1-0N'1	TURB	1016	EE-8F	3	AUX/EE	DG
89XX-3/DST1	DG-1	89XX-3/DST1	9406	OWTDI-0N'I	TURB	1016	EE-8F	17	AUX/EDG	DG
89XX-3/DST1	DG-2	89XX-3/DST1	9406	0WTD1-0N'1	TURB	1016	EE-8F	17	AUX/EDG	DG
A1-66B	YCV-1045	94-1/1045	21423	AI-66B	77	1036	Al-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94-1/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	94-1/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AC-DC-2	HCV-400A	94-1/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400C	94-1/400	41269	AC-DC-2	77	1036	Al-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401A	94-1/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401C	94-1/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402A	94-1/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402C	94-1/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403A	94-1/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403C	94-1/403	4:202	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94-1/6286A-6287A	21847	A!-PaA	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2899A	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	FICV-2899B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
AI-106A	PCV-840B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	PCV-841B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	TCV-893	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	TCV-894	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	VA-46A	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106A	VA-46B	94-1/6286A-6287A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106B	HCV-2898A	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2898B	94-1/6286B-6287B	21847	Al-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2899A	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2899B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	PCV-840B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106B	PCV-841B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106B	TCV-893	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	TCV-894	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	VA-46A	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106B	VA-46B	94-1/6286B-6287B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106A	HCV-2898A	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2898B	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2899A	94-1/6288A	21847	Al-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2899B	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	PCV-840B	94-1/6288A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	PCV-841B	94-1/6288A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	TCV-893	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	TCV-894	94-1/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	VA-46A	94-1/6288A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106A	VA-46B	94-1/6288A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106B	HCV-2898A	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2898B	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2899A	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2899B	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	PCV-840B	94-1/6288B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106B	PCV-841B	94-1/6288B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106B	TCV-893	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	TCV-894	94-1/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	VA-46A	94-1/6288B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR	
AI-1063	VA-46B	94-1/6288B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR	
AC-DC-1	PCV-102-1	94-1/PPLS-A	9831	AC-DC-1	77	1036	AI-40A-01	7	PC	RC	
AC-DC-I	PCV-102-2	94-1/PPLS-B	9831	AC-DC-I	77	1036	AI-40D-01	7	PC	RC	
A1-33A	HCV-2898A	94-1/RM-050/061	9799	AI-33A	77	1036	A1-40A-15	7	AUX/CCW	AC-CCW	

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-33A	HCV-2898B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
Al-33A	HCV-2899A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
A1-33A	HCV-2899B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-724A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON
AI-33A	HCV-725A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	e	AUX/CCW	VA-CON
AI-33A	PCV-840B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	PCV-841B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	TCV-893	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	VA-46A	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	VA-46B	94-1/RM-050/061	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	HCV-2898A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898B	94-1/RM-051/062	9799	A1-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	HCV-724A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON
AI-33A	HCV-725A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CON
AI-33A	PCV-840B	94-1/RM-051/062	9799	A1-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	PCV-841B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	0	AUX/CCW	VA-CR
AI-33A	TCV-893	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	7	AUX/CCW	AC-CCW
AI-33A	VA-46A	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	VA-46B	94-1/RM-051/062	9799	AI-33A	77	1036	AI-40A-15	10	AUX/CCW	VA-CR
AI-33A	HCV-1387A	94-1/RM-054A	9799	AI-33A	77	1036	AI-40A-13	7	DHR	FW-BD
AI-33A	HCV-1388A	94-1/RM-054A	9799	AI-33A	77	1036	AI-40A-13	7	DHR	FW-BD
AI-33A	HCV-1387B	94-1/RM-054B	9799	AI-33A	77	1036	AI-40B-15	7	DHR	FW-BD
A1-33A	HCV-1388B	94-1/RM-054B	9799	AI-33A	77	1036	AI-40B-15	7	DHR	FW-BD
AI-33A	HCV-2898A	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2898B	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899A	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-2899B	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	HCV-724A	94-1/RM-060	9799	A1-33A	77	1036	NA	0	AUX/CCW	VA-CON
AI-33A	HCV-725A	94-1/RM-060	9799	AI-33A	77	1036	NA	0	AUX/CCW	VA-CON
AI-33A	PCV-840B	94-1/RM-060	9799	AI-33A	77	1036	NA	0	AUX/CCW	VA-CR
AI-33A	PCV-841B	94-1/RM-060	9799	AI-33A	77	1036	NA	0	AUX/CCW	VA-CR
AI-33A	TCV-893	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-33A	TCV-894	94-1/RM-060	9799	AI-33A	77	1036	NA	7	AUX/CCW	AC-CCW
Al-33A	VA-46A	94-I/RM-060	9799	AI-33A	77	1036	NA	10	AUX/CCW	VA-CR
AI-33A	VA-46B	94-1/RM-060	9799	A1-33A	77	1036	NA	10	AUX/CCW	VA-CR
AI-33A	VA-4015	94-1 KM-000	9799	AI-33A	11	1036	NA	10	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
AI-106A	HCV-2898A	94-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2898B	94-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	PCV-840B	94-1/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	TCV-893	94-1/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	VA-46A	94-1/VA46A	21847	AI-106A	77	1636	NA	10	AUX/CCW	VA-CR	
AI-106B	HCV-2899A	94-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2899B	94-I/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	PCV-841B	94-1/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106B	TCV-894	94-1/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	VA-46B	94-I/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR	
AI-54B	1B4C-8	94-17/FD	9828	AI-54B	77	1036	AI-41A-09	2	AUX/EE	VA-CON	
AI-54B	1B4C-8	94-17X/FD	39723	AI-54B	77	1036	NA	2	AUX/EE	VA-CON	
AI-54B	1B3A-7	94-18/FD	9828	AI-54B	77	1036	AI-41A-09	2	AUX/EE	VA-CON	
AI-54B	1B3A-7	94-18X/FD	39723	AI-54B	77	1036	NA	2	AUX/EE	VA-CON	
AI-66B	YCV-1045	94-2/1045	21423	AI-66B	77	1036	Al-41B-04	7	DHR	MS	
AI-66B	YCV-1045A	94-2/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS	
AI-66B	YCV-1045B	94-2/1045	21423	AI-66B	77	1036	Al-41B-04	7	DHR	MS	
AC-DC-2	HCV-400A	94-2/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-400C	94-2/400	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-401A	94-2/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-401C	94-2/401	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-402A	94-2/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-402C	94-2/402	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-403A	94-2/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
AC-DC-2	HCV-403C	94-2/403	41269	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW	
Al-106A	HCV-2899A	94-2/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	HCV-2899B	94-2/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	PCV-841B	94-2/6288A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	TCV-894	94-2/6288A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	VA-46B	94-2/6288A	21847	AI-106A	77	1036	NA.	10	AUX/CCW	VA-CR	
AI-106B	HCV-2898A	94-2/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	HCV-2898B	94-2/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	PCV-840B	94-2/6288B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106B	TCV-893	94-2/6288B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106B	VA-46A	94-2/6288B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR	
AI-106A	HCV-2898A	94-2/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
A1-106A	HCV-2898B	94-2/VA46A	21847	A1-106A	77	1036	NA	7	AUX/CCW	AC-CCW	
AI-106A	PCV-840B	94-2/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR	
AI-106A	TCV-893	94-2/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106A	VA-46A	94-2/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	HCV-2899A	94-2/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94-2/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	PCV-841B	94-2/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	TCV-894	94-2/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	VA-46B	94-2/VA46B	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-54B	YCV-871B	94-23/FD	9828	AI-54B	77	1036	AI-41A-09	0	AUX/EDG	VA-EDL
AI-54B	YCV-871B	94-23X/FD	39723	AI-54B	77	1036	NA	0	AUX/EDG	VA-EDL
AI-54B	HCV-2898A	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
Ai-54B	HCV-28983	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54/3	HCV-2899A	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	HCV-2899B	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-54B	PCV-840B	94-25/FD	9828	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
AI-54B	PCV-841B	94-25/FD	9828	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
AI-54B	TCV-893	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-54B	TCV-894	94-25/FD	9828	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	VA-46A	94-25/FD	9828	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR
AI-54B	VA-46B	94-25/FD	9828	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR
AI-54B	HCV-2898A	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	HCV-2898B	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	HCV-2899A	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	HCV-2899B	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-54B	PCV-840B	94-25X/FD	39723	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
AI-54B	PCV-841B	94-25X/FD	39723	AI-54B	77	1036	NA	0	AUX/CCW	VA-CR
A1-54B	TCV-893	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	TCV-894	94-25X/FD	39723	AI-54B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-54B	VA-46A	94-25X/FD	39723	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR
AI-54B	VA-46B	94-25X/FD	39723	AI-54B	77	1036	NA	10	AUX/CCW	VA-CR
AI-66B	YCV-1045	94-3/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94-3/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	YCV-1045B	94-3/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AC-DC-2	HCV-400B	94-3/400	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-400D	94-3/400	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-401B	94-3/401	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	Af CCW
AC-DC-2	HCV-401D	94-3/401	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402B	94-3/402	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-402D	94-3/402	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403B	94-3/403	41271	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-403D	94-3/403	41271	AC-LC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-54B	YCV-871G	94-32/FD	9828	AI-54B	77	1036	AI-41A-09	0	AUX/EDG	VA-EDL
A1-54B	YCV-871G	94-32X/FD	39723	AI-54B	77	1036	NA	0	AUX/EDG	VA-EDL
AI-66B	YCV-1045	94-4/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94-4/1045	21423	AI-66B	77	1036	Al-41B-04	7	DHR	MS
AI-66B	YCV-1045B	94-4/1045	21423	AI-66B	77	1036	Al-41B-04	7	DHR	MS
AI-109A	RC-4-HTRS-1	94-A1/LS	12280	AI-109A	56	1011	Al-41A-06	21	PC	EE-5
AI-109A	RC-4-HTRS-2	94-A3/LS	12280	AI-109A	56	1011	AI-41A-06	21	PC	EE-5
AI-109A	RC-4-HTRS-3	94-A3/LS	12280	AI-109A	56	1011	AI-41A-06	23	PC	EE-5
AI-109B	RC-4-HTRS-10	94-B2/LS	43388	AI-109B	56	1011	Al-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-11	94-B2/LS	43388	AI-109B	56	1011	AJ-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-12	94-B2/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-10	94-B3/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
Al-109B	RC-4-HTRS-11	94-B3/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
AI-109B	RC-4-HTRS-12	94-B3/LS	43388	AI-109B	56	1011	AI-41B-06	21	PC	EE-5
MCC-3A1	RC-4-HTRS-1	94/1	43399	MCC-3A1	57	1013	NA	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	94/10	43402	MCC-4CI	57	1013	MCC-4C1	21	PC	EE-5
MCC-4CI	RC-4-HTRS-11	94/10	43402	MCC-4CI	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	94/10	43402	MCC-4CI	57	1013	MCC-4C1	21	PC	EE-5
CB-4	HCV-1041A	94/1041	12263	CB-4	77	1036	AI-41B-12	7	DHR	MS
CB-4	HCV-1042A	94/1042	12263	CB-4	77	1036	AI-41B-12	7	DHR	MS
AI-66B	YCV-1045	94/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	94/1045	21423	Al-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	94/1045	21423	AI-66B	77	1036	AI-41B-04	7	DHR	MS
CB-10,11	YCV-1045B	94/1045B	43389	CB-10 - 11	77	1036	AI-41B-14	7	DHR	MS
AI-179	YCV-1045B	94/1045B-1	43389	AI-179	57	1013	EE-8G-17	7	DHR	MS
CB-10,11	YCV-1045A	94/1045C	43389	CB-10 - 11	77	1036	AI-41B-14	7	DHR	MS
AI-179	YCV-1045A	94/1045C-1	43389	AI-179	57	1013	EE-8G-17	7	DHR	MS
MCC-4C1	RC-4-HTRS-10	94/11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4CI	RC-4-HTRS-11	94/11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	94/11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
AI-179	HCV-1107A	94/1107A-1	21422	AI-179	57	1013	EE-8F-18	7	DHR	FW-AFW
AI-66A	HCV-1107A	94/1107A-2	21422	Al-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66B	HCV-1107B	94/1107B-1	21422	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-179	HCV-1108A	94/1108A-1	21421	AI-179	57	1013	EE-8F-18	7	DHR	FW-AFW
AI-66A	HCV-1108A	94/1108A-2	21421	AI-66A	77	1036	AI-41A-02	7	DHR	FW-AFW
AI-66B	HCV-1108B	94/1108B-1	21421	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
MCC-4C1	RC-4-HTRS-10	94/12	43402	MCC-4CI	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	94/12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	94/12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-10,11	FCV-1368	94/1368	37570	CB-10-11	77	1036	AI-41A-14	7	DHR	FW-AFW
AI-179	PCV-1368	94/1368A	37570	AI-179	57	1013	EE-8F-18	7	DHR	FW-AFW
CB-10,11	FCV-1369	94/1369	37570	CB-10-11	77	1036	AI-41B-14	7	DHR	FW-AFW
AI-179	FCV-1369	94/1369A	37570	Al-179	57	1013	EE-8G-17	7	DHR	FW-AFW
CB-10,11	HCV-1387A	94/1387A	22745	CB-10,11	77	1036	AI-41A-14	7	DHR	FW-BD
CB-10,11	HCV-1387B	94/1387B	22745	CB-10,11	77	1036	AI-41B-14	7	DHR	FW-BD
CB-10,11	HCV-1388A	94/1388A	22745	CB-10,11	77	1036	AI-41A-14	7	DHR	FW-BD
CB-10,11	HCV-1388B	94/1388B	22743	CB-16,11	77	1036	AI-41B-14	7	DHR	FW-BD
MCC-3A1	RC-4-HTRS-2	94/2	43399	MCC-3A1	57	1013	NA	21	PC	EE-5
AC-DC-2	TCV-202	94/202	1279	AC-DC-2	77	1036	AI-41A-12	7	INV	CH
AC-DC-2	HCV-238	94/238	24368	AC-DC-2	77	1036	AI-41A-12	7	INV.R.P	CH
AC-DC-2	HCV-239	94/239	24369	AC-DC-2	77	1036	AI-41B-12	7	INV,R,P	CH
AC-DC-2	HCV-240	94/240	43398	AC-DC-2	77	1036	AI-41A-12	7	PC,R,P	CH
CB-1,2,3	HCV-247	94/247	37607	CB-1 - 2 - 3	77	1036	AI-41B-12	7	INV,R,P	CH
CB-1,2,3	HCV-248	94/248	37607	CB-1 - 2 - 3	77	1036	AI-41A-12	7	INV,R,P	CH
CB-1,2,3	HCV-249	94/249	37607	CB-1 - 2 - 3	77	1036	AI-41B-12	7	PC,R,P	CH
AI-107	HCV-2504A	94/2504A	41692	AI-107	60	1007	NA	7	INV	SL-PRI
A1-107	HCV-2506A	94/2506A	41692	AI-107	60	1007	NA	7	INV	SL-PRI
AI-107	HCV-2507A	94/2507A	41692	AI-107	60	1007	NA	7	INV	SL-PRI
AI-107	HCV-1387A	94/2510	22745	AI-107	60	1007	AI-41A-01	7	DHR	FW-BD
AI-107	HCV-1388A	94/2510	22745	AI-107	60	1007	AI-41A-01	7	DHR	FW-BD
AI-107	HCV-1387B	94/2511	22745	AI-107	60	1007	AI-41B-01	7	DHR	FW-BD
AI-107	HCV-1388B	94/2511	22745	AI-107	60	1007	AI-41B-01	7	DHR	FW-BD
CB-4	HCV-257	94/257	12286	CB-4	77	1036	AI-41B-12	7	RC	CH
CB-4	HCV-264	94/264	12286	CB-4	77	1036	AI-41A-12	7	RC	CH
CB-4	FCV-269	94/269	6153	CB-4	77	1036	Al-41A-12	7	RC	CH
AI-30A(ESF)	HCV-2861	94/2861	42521	AI-30A(ESF)	77	1036	AI-41A-06	7	AUX/RW	AC-RW
AC-DC-2	HCV-2874A	94/2874A	12597	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2874B	94/2874B	12597	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
A.C-DC-2	HCV-375A	94/2875A	12597	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2875B	94/2875B	12597	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2876A	94/2876A	12597	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2876B	94/2876B	12597	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2877A	94/2877A	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2877B	94/2877B	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2878A	94/2878A	41672	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2878B	94/2878B	41672	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2879A	94/2879A	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2879B	94/2879B	41672	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-2	HCV-2880A	94/2880A	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2880B	94/2880B	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2881A	94/2881A	41614	AC-DC-2	77	1036	Al-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2881B	94/2881B	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2882A	94/2882A	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2882B	94/2882B	41614	AC-DC-2	77	1036	AI-41A-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2883A	94/2883A	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
AC-DC-2	HCV-2883B	94/2883B	41614	AC-DC-2	77	1036	AI-41B-12	7	AUX/RW	AC-RW
CB-10,11	MS-291	94/291	43437	CB-10 - 11	77	1036	AI-41A-14	7	DHR	MS
CB-1C,11 AUX	MS-292	94/292	43437	CB-10 - 11 AUX	77	1036	AI-41B-14	7	DHR	MS
MCC-3A1	RC-4-HTRS-3	94/3	43399	MCC-3A1	57	1013	NA	21	PC	EE-5
AI-45	HCV-438A	94/438A/C	41303	AI-45	77	1036	AI-41A-17	7	AUX/CCW	AC-CCW
AI-45	HCV-438C	94/438A/C	41303	AI-45	77	1036	AI-4iA-17	7	AUX/CCW	AC-CCW
AI-45	HCV-438B	94/438B/D	41303	AI-45	77	1036	AI-41B-02	7	AUX/CCW	AC-CCW
AI-45	HCV-438D	94/438B/D	41303	AI-45	77	1036	AI-41B-02	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-489A	94/489	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-489B	94/489	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-490A	94/490	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-490B	94/490	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-491A	94.491	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-491B	94/491	41588	AC-DC-2	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-492A	94/492	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-492B	94/492	41588	AC-DC-2	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-30A(ESF)	HCV-724A	94/724A	12287	AI-30A(ESF)	77	1036	Al-41A-06	0	AUX/CCW	VA-CON
AI-30B(ESF)	HCV-725A	94/725A	12287	AI-30B(ESF)	77	1036	AI-41B-06	0	AUX/CCW	VA-CON
AI-106A	HCV-2898A	94/LS2898	21846	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94/LS2898	21846	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94/LS2899	21846	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
A!-106B	HCV-2899B	94/LS2899	21846	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-146	YCV-871G	94/VA-52A	41561	AI-146	63	1014	MCC-3B1	0	AUX/EDG	VA-EDL
AI-147	YCV-871B	94/VA-52B	41561	AI-147	64	1014	MCC-4A1	0	AUX/EDG	VA-EDL
Al-106A	HCV-2898A	94/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	PCV-840B	94/VA46A	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	TCV-893	94/VA46A	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	VA-46A	94/VA46A	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	HCV-2899A	94/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
A1-106B	PCV-841B	94/VA46B	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-106B	TCV-894	94/VA46B	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	VA-46B	94/VA46B	21847	Al-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-43A	HCV-2504A	94A/CIAS	40247	AI-43A	77	1036	NA	7	INV	SL-PRI
AC-DC-2	HCV-2898A	94A/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2898B	94A/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898A	94AX1/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	HCV-2898B	94AX1/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	PCV-840B	94AX1/VIAS	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	TCV-893	94AXI/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	VA-46A	94AXI/VIAS	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AI-106A	HCV-2898A	94AX2/VIAS	21847	AI-106A	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106A	PCV-840B	94AX2/VIAS	21847	AI-106A	77	1036	NA	0	AUX/CCW	VA-CR
AI-106A	VA-46A	94AX2/VIAS	21847	AI-106A	77	1036	NA	10	AUX/CCW	VA-CR
AC-DC-2	HCV-2899A	94B/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899A	94B/PE-5A	41671	AC-DC-2	77	1036	NA	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899B	94B/PE-5A	41671	AC-DC-2	77	1036	AI-41B-2	7	AUX/CCW	AC-CCW
AC-DC-2	HCV-2899B	94B/PE-5A	41671	AC-DC-2	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899A	94BX1/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	HCV-2899B	94BX1/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
Al-106B	PCV-841B	94BXI/VIAS	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	TCV-894	94BX1/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	VA-46B	94BXI/VIAS	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
AI-106B	HCV-2899A	94BX2/VIAS	21847	AI-106B	77	1036	NA	7	AUX/CCW	AC-CCW
AI-106B	PCV-841B	94BX2/VIAS	21847	AI-106B	77	1036	NA	0	AUX/CCW	VA-CR
AI-106B	VA-46B	94BX2/VIAS	21847	AI-106B	77	1036	NA	10	AUX/CCW	VA-CR
CB-4 AUX	FCV-269	A/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	RC	CH
CB-4 AUX	HCV-264	A/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	RC	CH
CB-4 AUX	HCV-265	A/94-1/SIAS	43409	CB-4 AUX	- 77	1036	AI-41A-03	7	INV,R,P	CH
CB-4 AUX	HCV-257	A/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	RC	CH
CB-4 AUX	HCV-258	A/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41A-03	7	INV,R,P	CH
AC-DC-1	HCV-489A	A/94-3/SIAS	5649	AC-DC-1	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	A/94-3/SIAS	5649	AC-DC-I	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	A/94-3/SIAS	5649	AC-DC-I	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491B	A/94-3/SIAS	5649	AC-DC-1	77	1036	AI-41A-12	7	AUX/CCW	AC-CCW
AC-DC-1	LCV-218-2	A/94-3/SIAS	5649	AC-DC-1	77	1036	AI-41A-12	7	INV,R,P	CH
AI-44	HCV-2898A	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
AI-44	HCV-2898B	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW
A1-44	PCV-840B	A/94-3/VIAS	41568	AI-44	77	1036	Al-41A-10	0	AUX/CCW	VA-CR
AI-44	TCV-893	A/94-3/VIAS	41568	AI-44	77	1036	AI-41A-10	7	AUX/CCW	AC-CCW

A1-44 A/PC-742-1 A/PC-742-1 A/PC-742-1 A/PC-742-1	VA-46A 1A3-10 1A3-16 1A3-20 1A3-9 1A4-1 1A4-11	A/94-3/VIAS A/PC-742-1 A/PC-742-1 A/PC-742-1 A/PC-742-1	41568 9841 9841 9841	AI-44 12WP-14N6D 12WP-14N6D	77 59	1036 1012	AI-41A-10	10	AUX/CCW	VA-CR
A/PC-742-1 A/PC-742-1 A/PC-742-1	1A3-16 1A3-20 1A3-9 1A4-1 1A4-11	A/PC-742-1 A/PC-742-1 A/PC-742-1	9841 9841		59	1012				
A/PC-742-1 A/PC-742-1	1A3-20 1A3-9 1A4-1 1A4-11	A/PC-742-1 A/PC-742-1	9841	12WP-14N6D		23/24	NA	3	AUX/EE	AC-RW
A/PC-742-1	1A3-9 1A4-1 1A4-11	A/PC-742-1			59	1012	NA	3	AUX/EE	FW-AFW
	IA4-II			12W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
	IA4-11		9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-1		A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
A/PC-742-1	144.12	A/PC-742-1	9841	12WP-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-1	174-17	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-1	1B3A-4	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-1	1B3A-7	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
A/PC-742-1	1B3B-4	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-1	1B3B-4B-5	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/FE	CH
A/PC-742-1	1B3C-4C-4	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-1	1B4A-1	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-1	1B4C-6	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-1	1B4C-8	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
A/PC-742-1	DG-1	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
A/PC-742-1	DG-2	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
A/PC-742-1	FCV-269	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-1	HCV-1041A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-1	HCV-1941C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-1	HCV-1042A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-1	HCV-1042C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-1	HCV-1385	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW
A/PC-742-1	HCV-1386	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW
A/PC-742-1	HCV-1387A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
A/PC-742-1	HCV-1388A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
A/PC-742-1	HC'v-2504A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-1	HCV-2506A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-1	HCV-2507A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-1	HCV-257	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-1	HCV-258	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV.R.P	СН
A/PC-742-1	HCV-264	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-1	HCV-265	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
A/PC-742-1	HCV-2898A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400B	A/PC-742-1	9841	12WP-14N6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1	HCV-400D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

9/8/95

APC-742-1 HCV-401A APC-742-1 9941 I2WP-14N50 99 1012 NA	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
APC-742-1	A/PC-742-1	HCV-401A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-401D	A/PC-742-1	HCV-401B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-402A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-402B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-402C APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-402D APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 HCV-403B APC-742-1 HCV-403B APC-742-1 HCV-403B	A/PC-742-1	HCV-401C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1	A/PC-742-1	HCV-401D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-402C APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-402D APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403D APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-43BC APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-43BC APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-43BC APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-43BC APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-43BC APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-43BA APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-491A APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-491A APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-72BA APC-742-1 9841 12WF-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-72BA APC-742-1 9841 12WF-14N5D 59 1012 NA 0 AUXCCW ACCCW APC-742-1 HCV-72BA APC-742-1 9841 12WF-14N5D 59 1012 NA 0 AUXCCW ACCCW APC-742-1 HCV-72BA APC-742-1 9841 12WF-14N5D 59 1012 NA 0 AUXCCW ACCW APC-742-1 HCV-72BA APC-742-1 9841 12WF-14N5D 59 1012 NA 0 AUXCCW ACCW APC-742-1 HCV-72BA APC-742-1 9841 12WF-14N5D 59 1012 NA 0 AUXCCW ACCW APC-742-1 HCV-72BA APC-742-1 HCV-72BA APC-742-1 HCV-72BA APC-742-1 HCV-72BA APC-742-1 HCV-72BA APC-742-1 HCV-72BA	A/PC-742-1	HCV-402A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-403D APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403C APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403C APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403C APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-403C APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-488A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-489A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-489A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-72AA APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-72AA APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW ACCCW APC-742-1 HCV-72AA APC-742-1 9841 12WP-14N5D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 HCV-72AA APC-742-1 9841 12WP-14N5D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PCV-80B APC-742-1 PS41 12WP-14N5D 59 1012 NA 7 NN-XP CH APC-742-1 PS41 12WP-14N5D 59 1	A/PC-742-1	HCV-402B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	MA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-403B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-403D APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-403D APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-488A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-741A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-741A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-724A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-724A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-724A APC-742-1 9841 12WP-14N5D 59 1012 NA 7 RW-PC-PC-PC-PC-PC-PC-PC-PC-PC-PC-PC-PC-PC-	A/PC-742-1	HCV-402C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-72-1 HCV-403B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-403C APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-403D APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-438A APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-438C APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-489A APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-489B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-489B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-489B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-489B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-91B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-91B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-91B APC-72-1 9841 12WP-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-72-1 HCV-724A APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW AC-CCW APC-72-1 HCV-725A APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 HCV-725A APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 HCV-728A APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 PCV-80B APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-1 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-2 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-72-1 RC-41TRS-3 APC-72-1 9841 12WP-14N6D 59 1012 NA 0 AUXCCW VA-CO	A/PC-742-1	HCV-402D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-403C A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-403D APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-438A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-438C A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-489A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-489B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-723A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-723A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 HCV-723A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 HCV-723A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 HCV-723A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 PCV-840B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 PCV-840B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 RC-4+TRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4+TRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4+TRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4+TRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4+TRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-1045 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 PCV-104	A/PC-742-1	HCV-403A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-403D APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-438C APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-438C APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-489A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-491A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW APC-742-1 HCV-724A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON APC-742-1 HCV-724A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON APC-742-1 HCV-725A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON APC-742-1 LCV-218-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH APC-742-1 LCV-218-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH APC-742-1 RC-4+TRS-1 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH APC-742-1 RC-4+TRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4+TRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4+TRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4+TRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4+TRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH APC-742-1 VA-46A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH APC-742-1 VA-46A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 VA-46A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 VCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 VCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 VCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 VCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUXIEE AC-RW APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUXIEE DG APC-742-2 1A3-10 APC-742-2 984	A/PC-742-1	HCV-403B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-438A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WF-14N6D 59 1012 NA 7 AUXCCW AC-CCW APC-742-1 HCV-72AA APC-742-1 9841 12WF-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 HCV-72AA APC-742-1 9841 12WF-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 HCV-72AA APC-742-1 9841 12WF-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 HCV-72AA APC-742-1 9841 12WF-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 PCV-840B APC-742-1 9841 12WF-14N6D 59 1012 NA 0 AUXCCW VA-CON APC-742-1 PCV-840B APC-742-1 9841 12WF-14N6D 59 1012 NA 0 AUXCCW VA-CR APC-742-1 RC-4+TRS-1 APC-742-1 9841 12WF-14N6D 59 1012 NA 21 PC EE-S APC-742-1 RC-4+TRS-2 APC-742-1 9841 12WF-14N6D 59 1012 NA 21 PC EE-S APC-742-1 RC-4+TRS-3 APC-742-1 9841 12WF-14N6D 59 1012 NA 21 PC EE-S APC-742-1 TCV-202 APC-742-1 9841 12WF-14N6D 59 1012 NA 21 PC EE-S APC-742-1 TCV-202 APC-742-1 9841 12WF-14N6D 59 1012 NA 7 INV CH APC-742-1 TCV-202 APC-742-1 9841 12WF-14N6D 59 1012 NA 7 INV CH APC-742-1 TCV-202 APC-742-1 9841 12WF-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 12WF-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 10WF-14N6D 59 1012 NA 3 AUXEE DG APC-742-2 1A3-16 APC-742-2 9841 10WF-14N6D 59 1012 NA 3 AUXEE DG APC-742-2 1A3-16 APC-742-2 9841 10WF-14N6D 59 1012 NA 3 AUXEE DG APC-742-2 1A3-16 APC-742-2 9841 10WF-14N6D 59	A/PC-742-1	HCV-403C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-489E APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-721A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-725A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW AC-CCW APC-742-1 HCV-725A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW AC-CCW APC-742-1 LCV-218-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW AC-CCW APC-742-1 PCV-880B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV-RP CH APC-742-1 PCV-880B APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW AC-CCW APC-742-1 RC-4-HTRS-1 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4-HTRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4-HTRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 TCV-202 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 VCV-104S APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH APC-742-1 VCV-104S APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-104S APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-104S APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-104S APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-104S APC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A3-10 APC-742-	A/PC-742-1	HCV-403D	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-489A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-489B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-491B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-724A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW APC-742-1 HCV-725A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 LCV-218-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 LCV-218-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV_RP CH APC-742-1 PCV-840B APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 RC-4-HTRS-1 APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CR APC-742-1 RC-4-HTRS-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4-HTRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4-HTRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 TCV-202 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 PC-4-HTRS-3 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 TCV-202 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 VA-60A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH APC-742-1 VCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE PW-APW APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE PW-APW APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1	A/PC-742-1	HCV-438A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1 HCV-489B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUXICCW AC-CCW A/PC-742-1 HCV-724A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW AC-CCW A/PC-742-1 HCV-725A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 LCV-218-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 PCV-840B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV_RP CH A/PC-742-1 RC-4-HTRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUXICCW VA-CON A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-2 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-2 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE PW-APW A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A	A/PC-742-1	HCV-438C	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1 HCV-491A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW A/PC-742-1 HCV-725A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON A/PC-742-1 HCV-725A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON A/PC-742-1 LCV-218-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH A/PC-742-1 RC-4-HTRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CR A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CAR A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CAR A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-104S A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	HCV-489A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1 HCV-491B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 AUX/CCW AC-CCW A/PC-742-1 HCV-724A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON A/PC-742-1 LCV-218-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON A/PC-742-1 PC-742-1 PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH A/PC-742-1 PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON A/PC-742-1 PC-742-1 PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CCR A/PC-742-1 RC-4-HTRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE PW-AFW A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE PW-AFW A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9	A/PC-742-1	HCV-489B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-724A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 LCV-218-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH APC-742-1 RC-4-HTRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	HCV-491A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
APC-742-1 HCV-724A APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 HCV-725A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH APC-742-1 PCV-840B APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 PCV-840B APC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CON APC-742-1 RC-4HTRS-1 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4HTRS-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 RC-4HTRS-2 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 TCV-202 APC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 APC-742-1 TCV-202 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH APC-742-1 VCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 10 AUX/CCW VA-CR APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045 APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045A APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045B APC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS APC-742-1 YCV-1045B APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW APC-742-2 1A3-10 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A3-9 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A3-9 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW APC-742-2 1A4-11 APC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW APC-742-2 1A4-12 APC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	HCV-491B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-1 LCV-218-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV.R.P CH A/PC-742-1 PCV-840B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 10 AUX/CCW VA-CR A/PC-742-1 VCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	HCV-724A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	0	AUX/CCW	
A/PC-742-1 PCV-840B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-20 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	HCV-725A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
A/PC-742-1 PCV-840B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 0 AUX/CCW VA-CR A/PC-742-1 RC-4-HTRS-1 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10WP-14N6	A/PC-742-1	LCV-218-2	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
A/PC-742-1 RC-4-HTRS-2 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 10 AUX/CCW VA-CR A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-2 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE PW-AFW A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	PCV-840B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	0	AUX/CCW	
A/PC-742-1 RC-4-HTRS-3 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 21 PC EE-5 A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 10 AUX/CCW VA-CR A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-20 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE FW-AFW A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	RC-4-HTRS-1	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	21	PC	EE-5
A/PC-742-1 TCV-202 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 INV CH A/PC-742-1 VA-46A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 10 AUX/CCW VA-CR A/PC-742-1 YCV-1045 A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12WP-14N6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE FW-AFW A/PC-742-2 1A3-20 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-14 A/PC-742-2 9841 10WP-14N6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	RC-4-HTRS-2	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	21	PC	EE-5
A/PC-742-1 VA-46A	A/PC-742-1	RC-4-HTRS-3	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	21	PC	EE-5
A/PC-742-1 YCV-1045 A/PC-742-1 9841 12W'P-14N'6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045A A/PC-742-1 9841 12W'P-14N'6D 59 1012 NA 7 DHR MS A/PC-742-1 YCV-1045B A/PC-742-1 9841 12W'P-14N'6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE FW-AFW A/PC-742-2 1A3-20 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	TCV-202	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	INV	CH
A/PC-742-1 YCV-1045A A/PC-742-1 9841 12W'P-14N'6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-20 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	VA-46A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
A/PC-742-1 YCV-1045B A/PC-742-1 9841 12W'P-14N'6D 59 1012 NA 7 DHR MS A/PC-742-2 1A3-10 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE FW-AFW A/PC-742-2 1A3-20 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	YCV-1045	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2 1A3-10 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A3-16 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE FW-AFW A/PC-742-2 1A3-20 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	YCV-1045A	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2 1A3-16 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE FW-AFW A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-1	YCV-1045B	A/PC-742-1	9841	12W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2 1A3-20 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-1 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-2	1A3-10	A/PC-742-2	9841	10W'P-14N'6D	. 59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2 1A3-9 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-2	1A3-16	A/PC-742-2	9841	10WP-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE DG A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-2	1A3-20	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
A/PC-742-2 1A4-11 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-2	1A3-9	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2 1A4-12 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 3 AUX/EE AC-RW A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-2	1A4-1	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
A/PC-742-2 1B3A-4 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE CH	A/PC-742-2	1A4-11	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
ADVIECTOR AND THE COLUMN AND THE COL	A/PC-742-2	1A4-12	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
A/PC-742-2 1B3A-7 A/PC-742-2 9841 10W'P-14N'6D 59 1012 NA 2 AUX/EE VA-CON	A/PC-742-2	1B3A-4	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
	A/PC-742-2	1B3A-7	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A/PC-742-2	1B3B-4	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-2	1B3B-4B-5	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-2	1B3C-4C-4	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-2	1B4A-1	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
A/PC-742-2	1B4C-6	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
A/PC-742-2	1B4C-8	A/PC-742-2	9841	10WP-14N6D	59	1012	NA	2	AUX/EE	VA-CON
A/PC-742-2	DG-1	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
A/PC-742-2	DG-2	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
A/PC-742-2	FCV-269	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-2	HCV-1041A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1041C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1042A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1042C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	HCV-1385	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW
A/PC-742-2	HCV-1386	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW
A/PC-742-2	HCV-1387B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
A/PC-742-2	HCV-1388B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
A/PC-742-2	HCV-2504A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-2	HCV-2506A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-2	HCV-2507A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
A/PC-742-2	HCV-257	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-2	HCV-258	A/PC-742-2	9841	10WP-14N'6D	59	1012	NA	7	INV.R.P	CH
A/PC-742-2	HCV-264	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	RC	CH
A/PC-742-2	HCV-265	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	INV.R.P	CH
A/PC-742-2	HCV-2899A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-400D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-401A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-401B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-401C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-401D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402A	A/PC-742-2	9841	10WP-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-402D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-403A	A/PC-742-2	9841	ICW'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-403B	A/PC-742-2	9841	10WP-14N6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
A/PC-742-2	HCV-403C	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-403D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-438B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-438D	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-490A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-490B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-492A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-492B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
A/PC-742-2	HCV-724A	A/PC-742-2	9841	10WP-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
A/PC-742-2	HCV-725A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
A/PC-742-2	LCV-218-2	A/PC-742-2	9841	10W"P-14N'6D	59	1012	NA	7	INV.R.P	CH
A/PC-742-2	PCV-841B	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
A/PC-742-2	RC-4-HTRS-10	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	21	PC	EE-5
A/PC-742-2	RC-4-HTRS-11	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	21	PC	EE-5
A/PC-742-2	RC-4-HTRS-12	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	21	PC	EE-5
A/PC-742-2	VA-46B	A/PC-742-2	9841	10WP-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
A/PC-742-2	YCV-1045	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	YCV-1045A	A/PC-742-2	9841	10W'P-14N'6D	59	1012	NA	7	DHR	MS
A/PC-742-2	YCV-1045B	A/PC-742-2	9841	10W°P-14N°6D	59	1012	NA	7	DHR	MS
CB-1,2,3	1A3-10	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-16	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-20	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	3	AUX/EE	DG
CB-1,2,3	1A3-9	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Aï-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-I	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	3	AUX/EE	DG
CB-1,2,3	1A4-11	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	3	AUX/EE	AC-RW
CB-1,2,3	1B3A-4	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	CH
CB-1,2,3	1B3A-7	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	VA-CON
CB-1,2,3	1B3B-4	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4B-5	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	СН
CB-1,2,3	1B3C-4C-4	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4A-1	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4C-6	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	CH
CB-1,2,3	1B4C-8	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	2	AUX/EE	VA-CON
CB-1,2,3	DG-1	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	17	AUX/EDG	DG
CB-1,2,3	DG-2	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	17	AUX/EDG	DG
CB-1,2,3	FCV-269	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	RC	CH
CB-1,2,3	HCV-1387A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	FW-BD
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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-1388A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	FW-BD
CB-1,2,3	HCV-2504A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	INV	SL-PRI
CB-1,2,3	HCV-2506A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	INV	SL-PRI
CB-1,2,3	HCV-257	A/PIA-102Y	9829	CB-1-2-3	77	1036	Al-40A-01	7	RC	CH
CB-1,2,3	HCV-258	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	INV.R.P	CH
CB-1,2,3	HCV-264	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	RC	CH
CB-1,2,3	HCV-265	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	INV.R.P	CH
CB-1,2,3	HCV-2898A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Al-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	2	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401C	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/OCW	AC-CCW
CB-1,2,3	HCV-402D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A!-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW.	AC-CCW
CB-1,2,3	HCV-438A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01 .	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-724A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40A-01	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-725A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
CB-1,2,3	LCV-218-2	A/PIA-102Y	9829	CB-1-2-3.	77	1036	AI-40A-01	7	INV.R.P	СН
CB-1,2,3	PCV-840B	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
CB-1,2,3	RC-4-HTRS-1	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40A-01	21	PC	EE-5
CB-1,2,3	TCV-202	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	INV	CH
CB-1,2,3	VA-46A	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
CB-1,2,3	YCV-1045	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	MS
CB-1,2,3	YCV-1045A	A/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40A-01	7	DHR	MS
CB-1,2,3	YCV-1045B	A/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40A-01	7	DHR	MS
AC-DC-I	1A3-10	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-16	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-I	1A3-9	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A4-11	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-I	1B3A-4	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-I	1B3A-7	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-1	1B3B-4	A/PIA-102Y-I	9829	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-I	1B3B-4B-5	A/PIA-102Y-1	9829	AC-DC-1	17	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-I	1B3C-4C-4	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A 01	2	AUX/EE	AC-CCW
AC-DC-I	1B4A-1	A/PIA-102Y-1	9829	AC-DC-1	27	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-I	1B4C-6	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-I	1B4C-8	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-I	DG-1	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	DG-2	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	FCV-269	A/PIA-102Y-1	9829	AC-DC-1	27	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-1387A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-1	HCV-1388A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-1	HCV-2504A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	INV	SL-PRI

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-2507A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-1	HCV-257	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-258	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV.R.P	CH
AC-DC-1	HCV-264	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-265	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	HCV-2898A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	A/PIA-102Y-1	9829	AC-DC-I	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-i	HCV-489B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	Aï-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-191A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-724A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-725A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	INV,R,P	CH
AC-DC-1	PCV-840B	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
AC-DC-1	RC-4-HTRS-1	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-2	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	A/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	TCV-202	A/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40A-01	7	INV	CH
AC-DC-1	VA-46A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40A-01	10	AUX/CCW	VA-CR
AC-DC-1	YCV-1045	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	YCV-1045A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	YCV-1045A	A/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40A-01	7		

53:	me.	PG 0.4
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AC-DC-1 YCV-1043B A/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-10 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-16 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-20 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-9 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A4-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1B3A-4 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	3 AU 3 AU 3 AU 2 AU 2 AU 2 AU 2 AU 2 AU 2 AU	HR MS DX/EE AC-RW DX/EE FW-AFW DX/EE DG DX/EE AC-RW DX/EE DG DX/EE CH DX/EE CH DX/EE AC-CCW DX/EE CH DX/EE AC-CCW
AC-DC-1 1A3-16 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-20 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-9 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A4-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A4-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	3 AU 3 AU 3 AU 2 AU 2 AU 2 AU 2 AU 2 AU 2 AU	IX/EE PW-APW IX/EE DG IX/EE AC-RW IX/EE DG IX/EE CH IX/EE VA-CON IX/EE AC-CCW IX/EE CH
AC-DC-1 1A3-20 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A3-9 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A4-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	3 AU 3 AU 2 AU 2 AU 2 AU 2 AU 2 AU 2 AU	IX/EE DG IX/EE AC-RW IX/EE DG IX/EE CH IX/EE VA-CON IX/EE AC-CCW IX/EE CH
AC-DC-1 1A3-9 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01 AC-DC-1 1A4-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	3 AU 3 AU 2 AU 2 AU 2 AU 2 AU 2 AU 2 AU	IX/EE AC-RW IX/EE DG IX/EE CH IX/EE VA-CON IX/EE AC-CCW IX/EE CH
AC-DC-1 1A4-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	3 AU 2 AU 2 AU 2 AU 2 AU 2 AU 2 AU	IX/EE DG IX/EE CH IX/EE VA-CON IX/EE AC-CCW IX/EE CH
	3 AU 2 AU 2 AU 2 AU 2 AU 2 AU 2 AU	IX/EE DG IX/EE CH IX/EE VA-CON IX/EE AC-CCW IX/EE CH
AC-DC-1 1B3A-4 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AL40A-01	2 AU 2 AU 2 AU 2 AU	IX/EE CH IX/EE VA-CON IX/EE AC-CCW IX/EE CH
	2 AU 2 AU 2 AU 2 AU	IX/EE VA-CON IX/EE AC-CCW IX/EE CH
AC-DC-1 1B3A-7 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	2 AU 2 AU	IX/EE AC-CCW IX/EE CH
AC-DC-1 1B3B-4 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	2 AU 2 AU	IX/EE CH
AC-DC-1 1B3B-4B-5 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	2 AU	
AC-DC-1 1B3C-4C-4 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		
AC-DC-1 DG-1 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/EDG DG
AC-DC-1 DG-2 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/EDG DG
AC-DC-1 FCV-269 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-61	7 RC	
AC-DC-1 HCV-1387B A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 DH	
AC-DC-1 HCV-1388B A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 DH	
AC-DC-1 HCV-2504A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 IN	
AC-DC-! HCV-2506A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 IN	
AC-DC-1 HCV-2507A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 IN	
AC-DC-1 HCV-257 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 RC	
AC-DC-1 HCV-258 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		V,R,P CH
AC-DC-1 HCV-264 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	7 RC	
AC-DC-1 HCV-265 A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		V,R,P CH
AC-DC-1 HCV-2899A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		IX/CCW AC-CCW
AC-DC-1 HCV-400A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/CCW AC-CCW
AC-DC-1 HCV-400B A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		IX/CCW AC-CCW
AC-DC-1 HCV-400C A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		JX/CCW AC-CCW
AC-DC-1 HCV-400D A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		IX/CCW AC-CCW
AC-DC-1 HCV-401A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/CCW AC-CCW
AC-DC-1 HCV-401B A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		IX/CCW AC-CCW
AC-DC-1 HCV-401C A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/CCW AC-CCW
AC-DC-1 HCV-401D A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		JX/CCW AC-CCW
AC-DC-1 HCV-402A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		JX/OCW AC-CCW
AC-DC-1 HCV-402B A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/CCW AC-CCW
AC-DC-1 HCV-402C A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		JX/CCW A'
AC-DC-1 HCV-402D A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		IX/CCW / CW
AC-DC-1 HCV-403A A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		JX/CCW A CCV
AC-DC-1 HCV-403B A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01		X/CCW AC-UCW
AC-DC-1 HCV-403C A/PIA-102Y-2 9829 AC-DC-1 77 1036 AI-40A-01	, ,,,,	X/CCW AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-403D	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438D	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490A	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-724A	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	7	INV.R.P	CH
AC-DC-1	PCV-841B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
AC-DC-1	RC-4-HTRS-10	A/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-11	A/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	A/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-I	VA-46B	A/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40A-01	10	AUX/CCW	VA-CR
CB-4	HCV-1041A	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1041C	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1042A	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1042C	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	MS
CB-4	HCV-1385	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	FW
CB-4	HCV-1386	A/PIC-902	9800	CB-4	77	1036	A/PQ-902	7	DHR	FW
CB-4	HCV-1041A	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4	HCV-1041C	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4	HCV-1042A	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4	HCV-1042C	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	MS
CB-4	HCV-1385	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	FW
CB-4	HCV-1386	A/PIC-905	9800	CB-4	77	1036	A/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1041A	A/PtC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1041C	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042A	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-65	7	DHR	MS
CB-4 AUX	HCV-1042C	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1385	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1386	A/PIC-A1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1041A	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1041C	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042A	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042C	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1385	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1386	A/PIC-B1	9800	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW

Al-66A HCV-1107B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A 1A3-16 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 3 AUX/EE FW Al-66A HCV-1108A A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045A A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A HCV-1107A Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW	FW-AFW FW-AFW MS MS
Al-66A HCV-1107B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045 A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A 1A3-16 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 3 AUX/EE FW Al-66A HCV-1108A A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045A A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A HCV-1107A Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS	FW-AFW MS
Al-66A YCV-1045 A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045A A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A 1A3-16 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 3 AUX/EE FW Al-66A HCV-1108B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045 A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045B A/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A 1A3-16 Al/RC-2B/AFWS 16145 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A HCV-1107A Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS	MS
AI-66A YCV-1045A A/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045B A/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A 1A3-16 A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 3 AUX/EE FW AI-66A HCV-1108A A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A HCV-1108B A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045A A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045B A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045B A/RC-2B/AFWS 16145 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A HCV-1107A AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 3 AUX/EE FW AI-66A HCV-1107B AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045B AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A HCV-1107B AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045 AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS	
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Al-66A 1A3-16 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 3 AUX/EE FW Al-66A HCV-1107A Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A HCV-1107B Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR FW Al-66A YCV-1045 Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045A Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS Al-66A YCV-1045A Al/RC-2A/AFWS 16143 Al-66A 77 1036 Al-41A-02 7 DHR MS	MS
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AI-66A HCV-1107B AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR FW AI-66A YCV-1045 A1/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS AI-66A YCV-1045A AI/RC-2A/AFWS 16143 AI-66A 77 1036 AI-41A-02 7 DHR MS	FW-AFW
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ALCO MONTHS	MS
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11 20 4 70 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DG
11 20D/D21 1441 172 172 172 172 172 172 172 172 172 17	DG
AL 204/D11 143 20 AC 4 VIA D1	DG
AT 200/D20 1144 AC 4 V/14 D2	DG
11 201 /D12 112 20 1C D111 D1	DG
A1 200/03/ 1444 AC B(1473	DG
AL 2014 (TALL 20)	DG
AL 20D/D23	DG
AL 122A DC 1 ACCUDI 1220C 11 122	DG
Al 122D DC 2 ACCUP2 1720C 11 122D	DG
A1 1224 DC 1 1702/D1 17207	DG
Al 122D DC 2 ACCOUNTS	DG
AL 1224 DC 1 AL 1221 DCD 10201	DG
N 1224 P.C.1 17 1724 P.C. 17224 P	DG
AI-133A DG-1 AI-133A-94 10791 AI-133A 63 1007 NA 17 AUX/EDG DG	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-133B	DG-2	AI-133B-2CR	10791	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	DG-2	AI-133B-41C	10791	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	DG-2	AI 133B-94	10791	AI-133B	64	1007	NA	17	AUX/EDG	DG
A1-3	1A3-20	A1-3-M1	1587	AI-3	77	1036	NA	3	AUX/EE	DG
AI-3	DG-1	AI-3-M1	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
AI-3	1A3-20	A1-3-M2	1587	AI-3	77	1036	NA	3	AUX/EE	DG
A1-3	DG-1	AI-3-M2	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
Al-3	1A4-1	AI-3-M3	1587	AI-3	77	1036	NA.	3	AUX/EE	DG
AI-3	DG-2	AI-3-M3	1587	Ai-3	77	1036	NA	17	AUX/EDG	DG
A1-3	1A4-1	AI-3-M4	1587	AI-3	77	1036	NA	3	AUX/EE	DG
A1-3	DG-2	AI-3-M4	1587	AI-3	77	1036	NA	17	AUX/EDG	DG
AI-31A	PCV-102-1	AI-31A-AW10-K1	1605	AI-31A	77	1036	NA	7	PC	RC
AI-31A	PCV-102-2	AI-3!A-AW10-K1	1605	AI-31A	77	1036	NA	7	PC	RC
AI-31A	1A3-20	AI-31A-AW7-K(AB)1	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
AI-31A	DG-1	AI-31A-AW7-K(AB)1	1587	AI-31A	77	1036	NA	17	AUX/EDG	DG
AI-31A	1A3-20	Al-31A-AW7-K(AB)2	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
Al-31A	DG-1	A1-31A-AW7-K(AB)2	1587	AI-31A	77	1036	NA	17	AUX/EDG	DG
AI-31A	1A4-1	AI-31A-AW7-K(AB)3	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
AI-31A	DG-2	AI-31A-AW7-K(AB)3	1587	AI-31A	77	1036	NA	17	AUX/EDG	DG
AI-31A	1A41	AI-31A-AW7-K(AB)4	1587	AI-31A	77	1036	NA	3	AUX/EE	DG
AI-31A	DG-2	AI-31A-AW7-K(AB)4	1587	A1-31A	77	1036	NA	17	AUX/EDG	DG
AI-31B	PCV-102-1	AI-31B-BW10-K1	1605	AI-31B	77	1036	NA	7	PC	RC
AI-31B	PCV-102-2	AI-31B-BW10-K1	1605	AI-31B	77	1036	NA	7	PC	RC
AI-31B	1A3-20	AI-31B-BW19-K1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	AI-31B-BW19-K1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-BW19-K11	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	AI-31B-BW19-K11	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-BW19-K13	1587	AI-31B	77	1036	NA .	3	AUX/EE	DG
AI-31B	DG-1	Al-31B-BW19-K13	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-BW19-KTD1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	Al-31B-BW19-KTD1	1587	AI-31B	. 77	1036	NA	17	AUX/EDG	DG
A!-31B	1A3-20	AI-31B-BW20-K3	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-I	AI-31B-BW20-K3	1587	Al-31B	77	1036	NA	17	AUX/EDG	DG
Al-31B	1A3-20	AI-31B-BW6-K(BC)1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	AI-31B-BW6-K(BC)1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-BW6-K(BC)2	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	AJ-31B-BW6-K(BC)2	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A4-1	Ai-31B-BW6-K(BC)3	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-2	AI-31B-BW6-K(BC)3	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-31B	1A4-1	AI-31B-BW6-K(BC)4	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
Al-31B	DG-2	AI-31B-BW6-K(BC)4	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-BW7-K(BD)1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
A1-31B	DG-1	AI-31B-BW7-K(BD)1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
A1-31B	1A3-20	AI-31B-BW7-K(BD)2	1587	Al-31B	77	1936	NA	3	AUX/EE	DG
AI-31B	DG-1	AI-31B-BW7-K(BD)2	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
A1-31B	1A4-1	AI-31B-BW7-K(BD)3	1587	Al-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-2	AI-31B-BW7-K(BD)3	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A4-1	AI-31B-BW7-K(BD)4	1587	Al-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-2	AI-31B-BW7-K(BD)4	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-IR-1	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	AI-31B-IR-1	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31B	1A3-20	AI-31B-IR-2	1587	AI-31B	77	1036	NA	3	AUX/EE	DG
AI-31B	DG-1	AI-31B-IR-2	1587	AI-31B	77	1036	NA	17	AUX/EDG	DG
AI-31C	PCV-102-1	Al-31C-CW10-K1	1605	AI-31C	77	1036	NA	7	PC	RC
AI-31C	PCV-102-2	Al-31C-CW10-K1	1605	AI-31C	77	1036	NA	7	PC	RC
AI-31C	1A4-1	AI-31C-CW19-K12	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-CW19-K12	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	1A4-I	AI-31C-CW19-K14	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-CW19-K14	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
Al-31C	1A4-1	AI-31C-CW19-K2	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-CW19-K2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	1A4-1	AI-31C-CW19-KTD2	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-CW19-KTD2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	1A4-1	AI-31C-CW20-K4	1587	AI-31C	77	1036	NA .	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-CW20-K4	1587	AI-31C	77	1036	NA	17	AUX/EDG	
AI-31C	1A3-20	AI-31C-CW6-K(AC)1	1587	AI-31C	77	1036	NA	3		DG
AI-31C	DG-1	AI-31C-CW6-K(AC)1	1587	AI-31C	77	1036	NA		AUX/EE	DG
AI-31C	1A3-20	AI-31C-CW6-K(AC)2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW6-K(AC)2	1587	AI-31C	77	1036	NA NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW6-K(AC)3	1587	AI-31C	77	1036	NA NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW6-K(AC)3	1587	AI-31C	77	1036		3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW6-K(AC)4	1587	AI-31C	77		NA	17	AUX/EDG	DG
AI-31C	DG-2	AI-31C-CW6-K(AC)4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	1A3-20	AI-31C-CW7-K(CD)1	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW7-K(CD)1	1587	AI-31C		1036	NA	3	AUX/EE	DG
AI-31C	1A3-20	AI-31C-CW7-K(CD)2	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	DG-1	AI-31C-CW7-K(CD)2	1587	AI-31C		1036	NA	3	AUX/EE	DG
AI-31C	1A4-1	AI-31C-CW7-K(CD)3	1587		77	1036	NA	17	AUX/EDG	DG
THE STEE	174-1	APSIC-CH /- K(CD)3	1307	AI-31C	77	1036	NA	3	AUX/EE	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-31C	DG-2	AI-31C-CW7-K(CD)3	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	1A4-1	AI-31C-CW7-K(CD)4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
Al-31C	DG-2	AI-31C-CW7-K(CD)4	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	1A4-1	AI-31C-IR-3	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-IR-3	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
AI-31C	1A41	AI-31C-IR-4	1587	AI-31C	77	1036	NA	3	AUX/EE	DG
AI-31C	DG-2	AI-31C-IR-4	1587	AI-31C	77	1036	NA	17	AUX/EDG	DG
Al-31D	PCV-102-1	AI-31D-DW10-K1	1605	AI-31D	77	1036	NA	7	PC	RC
AI-31D	PCV-102-2	AI-31D-DW10-K1	1605	AI-31D	77	1036	NA	7	PC	RC
AI-31D	1A3-20	Al-31D-DW6-K(AD)1	1587	AI-31D	77	1036	NA	3	AUX/EE	DG
AI-31D	DG-1	AI-31D-DW6-K(AD)1	1587	AJ-31D	77	1036	NA	17	AUX/EDG	DG
AI-31D	1A3-20	AI-31D-DW6-K(AD)2	1587	AI-31D	77	1036	NA	3	AUX/EE	DG
AI-31D	DG-1	AI-31D-DW6-K(AD)2	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
AI-3ID	IA4-1	AI-31D-DW6-K(AD)3	1587	AI-3ID	77	1036	NA	3	AUX/EE	DG
AI-31D	DG-2	AI-31D-DW6-K(AD)3	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
AI-31D	1A4-1	AI-31D-DW6-K(AD)4	1587	Al-31D	77	1036	NA	3	AUX/EE	DG
AI-31D	DG-2	AI-31D-DW6-K(AD)4	1587	AI-31D	77	1036	NA	17	AUX/EDG	DG
CB-4 AUX	HCV-257	B/94-1/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	RC	CH
CB-4 AUX	HCV-258	B/94-1/SIAS	43409	CB-4 AUX	77	1036	Al-41B-03	7	INV.R.P	CH
CB-4 AUX	FCV-269	B/94-2/SIAS	43409	CB-4 AUX	77	1936	AI-41B-03	7	RC	CH
CB-4 AUX	HCV-264	B/94-2/SIAS	43409	CB-4 AUX	77	1036	Al-41B-03	7	RC	CH
CB-4 AUX	HCV-265	B/94-2/SIAS	43409	CB-4 AUX	77	1036	AI-41B-03	7	INV.R.P	СН
AC-DC-1	HCV-490A	B/94-3/SIAS	5650	AC-DC-1	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	B/94-3/SIAS	5650	AC-DC-1	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	B/94-3/SIAS	5650	AC-DC-I	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-492B	B/94-3/SIAS	5650	AC-DC-1	77	1036	AI-41B-12	7	AUX/CCW	AC-CCW
AI-44	HCV-2899A	B/94-3/VIAS	41568	AI-44	77	1036	Al-41B-10	7	AUX/CCW	AC-CCW
AI-44	HCV-2899B	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	7	AUX/CCW	AC-CCW
AI-44	PCV-841B	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	0	AUX/CCW	VA-CR
AI-44	TCV-894	B/94-3/VIAS	41568	AI-44	77	1036	Ai-41B-10	7	AUX/CCW	AC-CCW
AI-44	VA-46B	B/94-3/VIAS	41568	AI-44	77	1036	AI-41B-10	10	AUX/CCW	VA-CR
AC-DC-I	LCV-218-2	B/94-4/SIAS	41673	AC-DC-1	77	1036	AI-41B-12	7	INV,R,P	CH
B/PC-742-1	1A3-10	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA NA	3	AUX/EF	AC-RW
B/PC-742-1	1A3-16	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
B/PC-742-1	1A3-20	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	
B/PC-742-1	1A3-9	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3		DG
B/PC-742-1	1A4-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-1	1A4-11	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	3	AUX/EE	DG
B/PC-742-1	1A4-12	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA NA	3	AUX/EE	AC-RW
		W. S	2041	101111111111111111111111111111111111111	39	1012	NA	3	AUX/EE	AC-RW

		LD RESERVE MIDT (DOLL	ica by recay)							210173
BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-1	1B3A-4	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-1	1B3A-7	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
B/PC-742-1	1B3B-4	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-1	1B3B-4B-5	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-1	1B3C-4C-4	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-1	1B4A-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-1	1B4C-6	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-1	1B4C-8	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
B/PC-742-1	DG-I	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	17	AUX/EDG	DG
B/PC-742-1	DG-2	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	17	AUX/EDG	DG
B/PC-742-1	FCV-269	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-1	HCV-1041A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1041C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1042A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1042C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	HCV-1385	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW
B/PC-742-1	HCV-1386	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW
B/PC-742-1	HCV-1387A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW-BD
B/PC-742-1	HCV-1388A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	FW-BD
B/PC-742-1	HCV-2504A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-1	HCV-2506A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-1	HCV-2507A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	SL-PRI
B/PC-742-1	HCV-257	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-1	HCV-258	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-1	HCV-264	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	RC	CH
B/PC-742-1	HCV-265	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-1	HCV-2898A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-400A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA.	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-400B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/OCW	AC-CCW
B/PC-742-1	HCV-400C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-400D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-401A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-401B	B/PC-742-1	9841	16W'N-14" oD	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-401C	B/PC-742-1	9841	16W'N' 14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-401D	B/PC-742-1	9841	16V N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402A	B/PC-742-1	9841	16 W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-402D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-1	HCV-403A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-403B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-403C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-403D	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-438A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-438C	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-489A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-489B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-491A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-491B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
B/PC-742-1	HCV-724A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-1	HCV-725A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-1	LCV-218-2	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV.R.P	CH
B/PC-742-1	PCV-840B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
B/PC-742-1	RC-4-HTRS-1	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-1	RC-4-HTRS-2	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-1	RC-4-HTRS-3	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-1	TCV-202	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	INV	СН
B/PC-742-1	VA-46A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
B/PC-742-1	YCV-1045	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	YCV-1045A	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-1	YCV-1045B	B/PC-742-1	9841	16W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	1A3-10	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A3-16	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
B/PC-742-2	1A3-20	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	DG
B/PC-742-2	1A3-9	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A4-1	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	DG
B/PC-742-2	1A4-11	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1A4-12	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
B/PC-742-2	1B3A-4	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	CH CH
B/PC-742-2	1B3A-7	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
B/PC-742-2	1B3B-4	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-2	1B3B-4B-5	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	CH
B/PC-742-2	1B3C-4C-4	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	
B/PC-742-2	1B4A-1	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-2	1B4C-6	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
B/PC-742-2	1B4C-8	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	2	AUX/EE	CH VA CON
B/PC-742-2	DG-1	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	17	AUX/EDG	VA-CON
B/PC-742-2	DG-2	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	17		DG
		W. 1. 1. 1. 2.	2041	14411-141100	39	1012	NA	17	AUX/EDG	DG

	10000										
BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
B/PC-742-2	FCV-269	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	RC	CH	
B/PC-742-2	HCV-1041A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS	
B/PC-742-2	HCV-1041C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS	
B/PC-742-2	HCV-1042A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS	
B/PC-742-2	HCV-1042C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS	
B/PC-742-2	HCV-1385	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW	
B/PC-742-2	HCV-1386	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW	
B/PC-742-2	HCV-1387B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW-BD	
B/PC-742-2	HCV-1388B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	FW-BD	
B/PC-742-2	HCV-2504A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV	SL-PRI	
B/PC-742-2	HCV-2506A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV	SL-PRI	
B/PC-742-2	HCV-2507A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV	SL-PRI	
B/PC-742-2	HCV-257	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	RC	CH	
B/PC-742-2	HCV-258	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV.R.P	CH	
B/PC-742-2	HCV-264	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	RC	CH	
B/PC-742-2	HCV-265	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV,R,P	CH	
B/PC-742-2	HCV-2899A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-400A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-400B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-400C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-400D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-401A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-401B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-401C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-401D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-402A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-402B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-402C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-402D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-403A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-403B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-403C	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-403D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-438B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-438D	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-490A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-490B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-492A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
B/PC-742-2	HCV-492B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
B/PC-742-2	HCV-724A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-2	HCV-725A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
B/PC-742-2	LCV-218-2	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	INV,R,P	CH
B/PC-742-2	PCV-841B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
B/PC-742-2	RC-4-HTRS-10	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-2	RC-4-HTRS-11	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-2	RC-4-HTRS-12	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	21	PC	EE-5
B/PC-742-2	VA-46B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
B/PC-742-2	YCV-1045	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	YCV-1045A	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
B/PC-742-2	YCV-1045B	B/PC-742-2	9841	14W'N-14N'6D	59	1012	NA	7	DHR	MS
CB-1,2,3	1A3-10	B/F1A-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-16	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-20	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	3	AUX/EE	DG
CB-1,2,3	1A3-9	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-1	B/PIA-102Y	9829	CB-1-2-3	77	1036	A.I-40B-01	3	AUX/EE	DG
CB-1,2,3	1A4-11	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	3	AUX/EE	AC-RW
CB-1,2,3	1B3A-4	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	CH
CB-1,2,3	1B3A-7	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	VA-CON
CB-1,2,3	1B3B-4	B/P1A-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4B-5	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	CH
CB-1,2,3	1B3C-4C-4	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4A-1	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4C-6	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	2	AUX/EE	CH
CB-1,2,3	1B4C-8	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	2	AUX/EE	VA-CON
CB-1,2,3	DG-1	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	17	AUX/EDG	DG
CB-1,2,3	DG-2	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	17	AUX/EDG	DG
CB-1,2,3	PCV-269	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	RC	CH
CB-1,2,3	HCV-1387A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388A	B/P!A-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	FW-BD
CB-1,2,3	HCV-2504A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV	SL-PRI
CB-1,2,3	HCV-2506A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV	SL-PRI
CB-1,2,3	HCV-257	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	RC	CH
CB-1,2,3	HCV-258	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV.R.P	CH
CB-1,2,3	HCV-264	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	RC	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-265	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	INV,R,P	CH
CB-1,2,3	HCV-2898A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	B/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AJ-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403D	B/P1A-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1336	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-724A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-725A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	0	AUX/CCW	VA-CON
CB-1,2,3	LCV-218-2	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	Al-40B-01	7	INV,R,P	СН
CB-1,2,3	PCV-840B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	0	AUX/CCW	VA-CR
CB-1,2,3	RC-4-HTRS-1	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	RC-4-HTRS-12	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	21	PC	EE-5
CB-1,2,3	TCV-202	B/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40B-01	7	INV	CH
CB-1,2,3	VA-46A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-408-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	10	AUX/CCW	VA-CR
CB-1,2,3	YCV-1045	B/PIA-102Y	9829	CB-1 2-3	77	1036	AI-40B-01	7	DHR	MS
CB-1,2,3	YCV-1045A	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	MS
CB-1,2,3	YCV-1045B	B/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40B-01	7	DHR	MS
AC-DC-1	1A3-10	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-16	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	B/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40B-01	3	AUX/EE	DG
AC-DC-1	1A3-9	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1A4-11	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	B/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1B3A-4	B/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40B-01	2	AUX/EE	CH
AC-DC-1	1B3A-7	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	VA-CON
AC-DC-1	1B3B-4	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4B-5	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
AC-DC-1	1B3C-4C-4	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4A-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4C-6	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
AC-DC-1	1B4C-8	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	VA-CON
AC-DC-1	DG-1	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	17	AUX/EDG	DG
AC-DC-1	DG-2	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	17	AUX/EDG	DG
AC-DC-I	FCV-269	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-1387A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-1388A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-2504A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-257	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-258	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	СН
AC-DC-I	HCV-264	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-265	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-I	HCV-2898A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-400C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401 A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-489A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-489B	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-724A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	0	AUX/CCW	VA-CON
AC-DC-I	LCV-218-2	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-I	PCV-840B	B/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40B-01	0	AUX/CCW	VA-CR
AC-DC-1	RC-4-HTRS-1	P/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-2	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	B/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40B-01	21	PC	EE-5
AC-DC-1	TCV-202	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	СН
AC-DC-1	VA-46A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	10	AUX/CCW	VA-CR
AC-DC-1	YCV-1045	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	MS
AC-DC-I	YCV-1045A	B/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	MS
AC-DC-1	YCV-1045B	B/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40B-01	7	DHR	MS
AC-DC-1	1A3-10	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-16	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1A3-9	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	3	AUX/EE	AC-RW
AC-DC-I	1A4-1	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	3	AUX/EE	DG
AC-DC-1	1B3A-4	B/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	CH
AC-DC-1	1B3A-7	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1B3B-4	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4B-5	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	СН
AC-DC-1	1B3C-4C-4	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	2	AUX/EE	AC-CCW
AC-DC-I	DG-1	B/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40B-01	17	AUX/EDG	DG
AC-DC-1	DG-2	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	17	AUX/EDG	DG
AC-DC-1	FCV-269	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-1387B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-1388B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	DHR	FW-BD
AC-DC-1	HCV-2504A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	II V	SL-PRI
AC-DC-1	HCV-257	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	CH
AC-DC-1	HCV-258	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	HCV-264	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	RC	СН
AC-DC-1	HCV-265	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	CH
AC-DC-1	HCV-2899A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438D	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-490A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-490B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-724A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	0	AUX/CCW	VA-CON

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-I	HCV-725A	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	7	INV,R,P	СН
AC-DC-1	PCV-841B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40B-01	0	AUX/CCW	VA-CR
AC-DC-I	RC-4-HTRS-10	B/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-11	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	B/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40B-01	21	PC	EE-5
AC-DC-1	VA-46B	B/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40B-01	10	AUX/CCW	VA-CR
CB-4	HCV-1041A	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1041C	B/P1C-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1042A	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1042C	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	MS
CB-4	HCV-1385	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	FW
CB-4	HCV-1386	B/PIC-902	9800	CB-4	77	1036	B/PQ-902	7	DHR	FW
CB-4	HCV-1041A	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4	HCV-1041C	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4	HCV-1042A	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4	HCV-1042C	B/P1C-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	MS
CB-4	HCV 385	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	FW
CB-4	HCV-1386	B/PIC-905	9800	CB-4	77	1036	B/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1041A	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1041C	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042A	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042C	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1385	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4 AUX	HCV-1386	B/PIC-A2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4 AUX	HCV-1041A	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1041C	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042A	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042C	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1385	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
CB-4 AUX	HCV-1386	B/PIC-B2	9800	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
AI-66B	1A3-16	B/RC-2A/AFWS	16143	AI-66B	77	1036	Al-41B-04	3	AUX/EE	FW-AFW
AI-66B	HCV-1107A	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	HCV-1107B	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	YCV-1045	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	B/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	1A3-16	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	3	AUX/EE	FW-AFW
AI-66B	HCV-1108A	B/RC-2B/AFWS	16145	Al-66B	77	1036	AI-41B-04	7	DHR	FW-AFW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-66B	HCV-1108B	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	YCV-1045	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	B/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	1A3-16	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	3	AUX/EE	FW-AFW
A1-66B	HCV-1107A	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	HCV-1107B	BI/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	YCV-1045	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045A	BI/RC-2A/AFWS	16143	AI-66B	77	1036	Al-41B-04	7	DHR	MS
Al-66B	YCV-1045B	B1/RC-2A/AFWS	16143	AI-66B	77	1036	AI-41B-04	7	DHR	MS
A1-66B	1A3-16	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	3	AUX/EE	FW-AFW
AI-66B	HCV-1108A	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
A1-66B	HCV-1108B	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	FW-AFW
AI-66B	YCV-1045	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
Al-66B	YCV-1045A	B1/RC-2B/AFWS	16145	AI-66B	77	1036	AI-41B-04	7	DHR	MS
AI-66B	YCV-1045B	B1/RC-2B/AFWS	16145	AI-66B	77	1036	Al-41B-04	7	DHR	MS
C/PC-742-1	iA3-10	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1A3-16	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
C/PC-742-1	1A3-20	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-1	1A3-9	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1A4-1	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-1	1A4-11	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1A4-12	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-1	1B3A-4	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	СН
C/PC-742-1	1B3A-7	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-1	1B3B-4	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-1	1B3B-4B-5	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	СН
C/PC-742-1	1B3C-4C-4	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA ·	2	AUX/EE	AC-CCW
C/PC-742-1	1B4A-1	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-1	184C-6	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-1	1B4C-8	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-1	DG-1	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-1	DG-2	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-1	PCV-269	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-1	HCV-1041A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1041C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1042A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1042C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	HCV-1385	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-1	HCV-1386	C/PC-742-1	9841	6W"P-14N"6D	59	1012	NA	7	DHR	FW
C/PC-742-1	HCV-1387A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-1	HCV-1388A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-1	HCV-2504A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-1	HCV-2506A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-1	HCV-2507A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-1	HCV-257	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-1	HCV-258	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV.R.P	CH
C/PC-742-1	HCV-264	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-1	HCV-265	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-1	HCV-2898A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-400D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-401D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-402D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403C	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-403D	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-438A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-438C	C/PC-742-1	9843	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-439A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-489B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-491A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-491B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-1	HCV-724A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
C/PC-742-1	HCV-725A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
C/PC-742-1	LCV-218-2	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-1	PCV-840B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
C/PC-742-1	RC-4-HTRS-1	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-1	RC-4-HTRS-2	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-1	RC-4-HTRS-3	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-1	TCV-202	C/PC-742-1	9841	6W"P-14N'6D	59	1012	NA	7	INV	CH
C/PC-742-1	VA-46A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
C/PC-742-1	YCV-1045	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	YCV-1045A	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-1	YCV-1045B	C/PC-742-1	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	1A3-10	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A3-16	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
C/PC-742-2	1A3-20	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-2	1A3-9	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A4-1	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
C/PC-742-2	1A4-11	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1A4-12	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
C/PC-742-2	1B3A-4	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-2	1B3A-7	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-2	1B3B-4	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-2	1B3B-4B-5	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-2	1B3C-4C-4	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-2	1B4A-1	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
C/PC-742-2	1B4C-6	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
C/PC-742-2	1B4C-8	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
C/PC-742-2	DG-1	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-2	DG-2	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
C/PC-742-2	FCV-269	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-2	HCV-1041A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1041C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1042A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1042C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	HCV-1385	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW
C/PC-742-2	HCV-1386	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW
C/PC-742-2	HCV-1387B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-2	HCV-1388B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
C/PC-742-2	HCV-2504A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-2	HCV-2506A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-2	HCV-2507A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV	SL-PRI
C/PC-742-2	HCV-257	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-2	HCV-258	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV,R,P	CH
C/PC-742-2	HCV-264	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	RC	CH
C/PC-742-2	HCV-265	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV.R.P	6.11

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
C/PC-742-2	HCV-2899A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-400A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-400B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-400C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-400D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-401D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-402D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-403A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-403B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-403C	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-403D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-438B	C/FC-742-1	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-438D	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-490A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-490B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-492A	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-492B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
C/PC-742-2	HCV-724A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
C/PC-742-2	HCV-725A	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON
C/PC-742-2	LCV-218-2	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	INV.R.P	СН
C/PC-742-2	PCV-841B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR
C/PC-742-2	RC-4-HTRS-10	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-2	RC-4-HTRS-11	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-2	RC-4-HTRS-12	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	21	PC	EE-5
C/PC-742-2	VA-46B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR
C/PC-742-2	YCV-1045	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	YCV-1045A	C/PC-742-2	9841	4W"P-14N'6D	59	1012	NA	7	DHR	MS
C/PC-742-2	YCV-1045B	C/PC-742-2	9841	4W'P-14N'6D	59	1012	NA	7	DHR	MS
CB-1,2,3	1A3-10	C/P1A-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-16	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-20	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE	DG
CB-1,2,3	1A3-9	C/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40C-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-I	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	3	AUX/EE	DG
								Ullian Trans	TANZA KAKA	500

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
CB-1,2,3	1A4-11	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	3	AUX/EE	AC-RW	
CB-1,2,3	1A4-12	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	3	AUX/EE	AC-RW	
CB-1,2,3	1B3A-4	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/EE	CH	
CB-1,2,3	1B3A-7	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/EE	VA-CON	
CB-1,2,3	1B3B-4	C/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40C-01	2	AUX/EE	AC-CCW	
CB-1,2,3	1B3B-4B-5	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUX/EE	CH	
CB-1,2,3	1B3C-4C-4	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	2	AUXEE	AC-CCW	
CB-1,2,3	1B4A-1	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/EE	AC-CCW	
CB-1,2,3	1B4C-6	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/EE	CH	
CB-1,2,3	1B4C-8	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/EE	VA-CON	
CB-1,2,3	DG-1	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	17	AUX/EDG	DG	
CB-1,2,3	DG-2	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	17	AUX/EDG	DG	
CB-1,2,3	FCV-269	C/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	RC	CH	
CB-1,2,3	HCV-1387A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	DHR	FW-BD	
CB-1,2,3	HCV-1387B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	DHR	FW-BD	
CB-1,2,3	HCV-1388A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	DHR	FW-BD	
CB-1,2,3	HCV-1388B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	DHR	FW-BD	
CB-1,2,3	HCV-2504A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV	SL-PRI	
CB-1,2,3	HCV-2506A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	INV	SL-PRI	
CB-1,2,3	HCV-2507A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	INV	SL-PRI	
CB-1,2,3	HCV-257	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	RC	СН	
CB-1,2,3	HCV-258	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV.R.P	CH	
CB-1,2,3	HCV-264	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	RC	СН	
CB-1,2,3	HCV-265	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV.R.P	CH	
CB-1,2,3	HCV-2898A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-2899A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-400A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-400B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-400C	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-400D	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-401A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-401B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-401C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-401D	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-402A	C/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-402B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-402C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-402D	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
CB-1,2,3	HCV-403A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW	
									110.000.00	110-00-11	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-403B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	C/PIA-102Y	9829	CB-1-2-3	77	1036	Al-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403D	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	2	AUX/CCW	AC-CCW
CB-1.2.3	HCV-438A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	C/PIA-102Y	9829	CB-1-2-3	77	1036	Al-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-724A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-725A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CON VA-CON
CB-1,2,3	LCV-218-2	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	INV.R.P	CH
CB-1,2,3	PCV-840B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
CB-1,2,3	RC-4-HTRS-1	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1636	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	21	PC	EE-5
CB-1,2,3	TCV-202	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	7	INV	CH
CB-1,2,3	VA-46A	C/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
CB-1,2,3	YCV-1045	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	MS
CB-1,2,3	YCV-1045A	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	MS
CB-1,2,3	YCV-1045B	C/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40C-01	7	DHR	MS
AC-DC-1	1A3-10	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-16	C/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40C-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC-1	1A3-9	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC-1	1A4-11	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	C/PIA-102Y-1	9829	AC-DC-1	77	1036	A!-40C-01	3	AUX/EE	AC-RW

ACDC1 IB3A-4 CPIA-102Y-1 9839 ACDC1 77 1016 A1-90C01 2 AUNEE CAL ACDC1 IB3B-4 CPIA-102Y-1 9839 ACDC1 77 1036 A1-90C01 2 AUNEE VA-CON ACDC1 IB3B-4 CPIA-102Y-1 9839 ACDC1 77 1036 A1-90C01 2 AUNEE ACCOW ACDC1 IB3B-4B CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE ACCOW ACDC1 IB3C-4C CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE ACCOW ACDC1 IB3C-4C CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE ACCOW ACDC1 IB3C-4C CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE ACCOW ACDC1 IB3C-8 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE ACCOW ACDC1 IB3C-8 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE CACOW ACDC1 IB3C-8 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 2 AUNEE CACOW ACDC1 IB3C-8 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 17 AUNEED DG ACDC1 DG-2 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 17 AUNEED DG ACDC1 FCV-369 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 77 AUNEED DG ACDC1 HCV-1387A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 77 DIR FW-BD ACDC1 HCV-1387A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2594A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2594A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2596A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2596A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2596A CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2596 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2596 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-2596 CPIA-102Y-1 9829 ACDC1 77 1036 A1-90C01 7 DIR FW-BD ACDC1 HCV-259	BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
ACDC-1 1838-7 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE VA-CON AC-DC-1 1838-8-5 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-CON AC-DC-1 1838-8-5 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-DCN AC-DC-1 1848-8-5 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-DCN AC-DC-1 1848-1 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-DCN AC-DC-1 1848-1 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-DCN AC-DC-1 184C-0 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-DCN AC-DC-1 184C-0 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 2 AILNEE CH AC-DCN AC-DC-1 184C-0 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 17 AILNEED DG AC-DC-1 DG-1 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 17 AILNEED DG AC-DC-1 DG-1 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 17 AILNEED DG AC-DC-1 EV-2599 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 RC CH AC-DC-1 EV-2599 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 RC CH AC-DC-1 EV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-388A CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2590 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 HCV-2501 CPIA-103Y-1 9829 AC-DC-1 77 1036 AI-80C-01 7 DIRR FW-8D AC-DC-1 TO DIRR FW-8D AC-DC-1 T	AC-DC-1	1B3A-4	C/PIA-102Y-1	9829	AC-DC-1	77	1036		2	AUX/FF	CH
AC-DC-1 1818-4 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE AC-CON AC-DC-1 1816-C-4 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE AC-CON AC-DC-1 1816-C-4 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE AC-CON AC-DC-1 1816-C-4 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE AC-CON AC-DC-1 1816-C-5 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE CH AC-DCN AC-DC-1 1816-C-5 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE CH AC-DCN AC-DC-1 1816-C-5 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 2 AILYREE CH AC-DCN AC-DC-1 DG-1 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 17 AILYREED DG AC-DC-1 DG-1 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 17 AILYREED DG AC-DC-1 DG-1 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 17 AILYREED DG AC-DC-1 HCV-18387 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 17 AILYREED DG AC-DC-1 HCV-18387 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 DBR PW-8D AC-DC-1 HCV-18387 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 DBR PW-8D AC-DC-1 HCV-18380 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 DBR PW-8D AC-DC-1 HCV-25904 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 DBR PW-8D AC-DC-1 HCV-25904 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 DBR PW-8D AC-DC-1 HCV-25904 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-25904 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 INV SL-PRI AC-DC-1 HCV-2504 CPIA-102Y-1 9829 AC-DC-1 77 1036 AI-90C-01 7 AILYRCOW AC-DCW AC-DCW AC-DCW AC-DCW AC-DCW AC-DCW A	AC-DC-1	1B3A-7	C/PIA-102Y-1	9829	AC-DC-1						
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AC-DC-1 HCV-401C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-401D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 H	AC-DC-1	HCV-401B	C/PIA-102Y-1	9829	AC-DC-I	77	1036		7		
AC-DC-1 HCV-401D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B	AC-DC-1	HCV-401C	C/PIA-102Y-1	9829	AC-DC-I	77	1036		7		
AC-DC-1 HCV-402A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403	AC-DC-1	HCV-401D	C/PIA-102Y-1	9829	AC-DC-1	77	1036		7		
AC-DC-1 HCV-402B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-402D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 AC-DC-1 AC-DC-1 77 AUX/CCW AC-DC-1 AC-DC-1 AC-DC-1 AC-DC-1 AC-DC-1 AC-DC-1 AC-DC-	AC-DC-1	HCV-402A	C/PIA-102Y-1	9829	AC-DC-1	77	1036		7		
AC-DC-1 HCV-402C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-DC-1 AC-DC	AC-DC-1	HCV-402B	C/PIA-102Y-1	9829	AC-DC-1		1036		7		
AC-DC-1 HCV-402D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402C	C/PIA-102Y-1	9829	AC-DC-1	77	1036		7		
AC-DC-1 HCV-403A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-402D	C/PIA-102Y-1	9829	AC-DC-1						
AC-DC-1 HCV-403B C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403A	C/PIA-102Y-1	9829	AC-DC-1	77	1036		7		
AC-DC-1 HCV-403C C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403B	C/PIA-102Y-1	9829	AC-DC-1				7		
AC-DC-1 HCV-403D C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403C	C/PIA-102Y-1	9829	AC-DC-1						
AC-DC-1 HCV-438A C/PIA-102Y-1 9829 AC-DC-1 77 1036 AI-40C-01 7 AUX/CCW AC-CCW	AC-DC-1	HCV-403D	C/PIA-102Y-1	9829	AC-DC-I						
ACTICAL DICK ASSOCIATION ACTION ACTIO	AC-DC-1	HCV-438A	C/PIA-102Y-1	9829	AC-DC-1	77					
	AC-DC-1	HCV-438C	C/PIA-102Y-1	9829	AC-DC-1	77	1036		7		

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-489A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-724A	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	INV.R.P	CH
AC-DC-1	PCV-840B	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
AC-DC-1	RC-4-HTRS-1	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-2	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-I	RC-4-HTRS-3	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-1	TCV-202	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	INV	CH
AC-DC-1	VA-46A	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
AC-DC-1	YCV-1045	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	MS
AC-DC-1	YCV-1045A	C/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40C-01	7	DHR	MS
AC-DC-1	YCV-1045B	C/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	MS
AC-DC-1	1A3-10	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-16	C/PIA-102Y-2	9829	AC-DC-I	77	1036	A1-40C-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC-1	1A3-9	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	3	AUX/EE	DG
AC-DC-I	1B3A-4	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	CH
AC-DC-I	1B3A-7	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	VA-CON
AC-DC-1	1B3B-4	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4B-5	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	2	AUX/EE	CH
AC-DC-1	1B3C-4C-4	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	2	AUX/EE	AC-CCW
AC-DC-1	DG-1	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	17	AUX/EDG	DG
AC-DC-1	DG-2	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	17	AUX/EDG	DG
AC-DC-I	PCV-269	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	RC	CH
AC-DC-1	HCV-1387B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	DHR	FW-BD
AC-DC-1	HCV-1388B	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	DHR	FW-BD
AC-DC-1	HCV-2504A	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	INV	SL-PRI
AC-DC-I	HCV-2506A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	INV	
AC-DC-1	HCV-2507A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	INV	SL-PRI SL-PRI
AC-DC-1	HCV-257	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	RC	
AC-DC-1	HCV-258	C/PIA-102Y-2	9829	AC-DC-I	77	1036	A1-40C-01	7	INV,R,P	CH
AC-DC-I	HCV-264	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	RC RC	CH CH
AC-DC-1	HCV-265	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	INV,R,P	
AC-DC-I	HCV-2899A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7		CH
	100 1 000 000					1030	A1-40C-01	- 1	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-400A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	CPIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	C/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403C	C/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40C-0i	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	C/P1A-102Y-2	9829	AC-DC-1	77	1036	A1-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-438B	C/PiA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438D	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-490A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-490B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-492B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-724A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	7	INV,R,P	CH
AC-DC-1	PCV-841B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	0	AUX/CCW	VA-CR
AC-DC-1	RC-4-HTRS-10	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-11	C/PIA-102Y-2	9829	AC-DC-1	77	1036	Al-40C-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-12	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	21	PC	EE-5
AC-DC-1	VA-46B	C/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40C-01	10	AUX/CCW	VA-CR
CB-4	HCV-1041A	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1041C	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1042A	C/P1C-902	9800	CB-4	77	1036	C/PO-902	7	DHR	MS
CB-4	HCV-1042C	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	MS
CB-4	HCV-1385	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	FW
CB-4	HCV-1386	C/PIC-902	9800	CB-4	77	1036	C/PQ-902	7	DHR	FW
CB-4	HCV-1041A	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS
CB-4	HCV-1041C	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS
CB-4	HCV-1042A	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4	HCV-1042C	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	MS
CB-4	HCV-1385	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	FW
CB-4	HCV-1386	C/PIC-905	9800	CB-4	77	1036	C/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1041A	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1041C	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1042A	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1042C	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1385	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	FW
CB-4 AUX	HCV-1386	C/PIC-A3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	FW
CB-4 AUX	HCV-1041A	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1041C	C/PIC-B3	9800	CB-4 AUX	77	1036	A1-40C-05	7	DHR	MS
CB-4 AUX	HCV-1042A	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1042C	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	MS
CB-4 AUX	HCV-1385	C/PIC-B3	9800	CB-4 AUX	77	1036	AI-40C-05	7	DHR	FW
CB-4 AUX	HCV-1386	C/PIC-B3	9800	CB-4 AUX	77	1036	A1-40C-05	7	DHR	FW
VA-46A	PCV-840B	CRI/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	VA-46A	CR1/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
VA-46B	PCV-841B	CR1/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	VA-46B	CR1/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
AI-179	YCV-1045	CSX-A/1045A	21423	AI-179	57	1013	EE-8G-17	7	DHR	MS
AI-179	YCV-1045A	CSX-A/1045A	21423	AI-179	57	1013	EE-8G-17	7	DHR	MS
Al-179	YCV-1045B	CSX-A/1045A	21423	AI-179	57	1013	EE-8G-17	7	DHR	MS
D/PC-742-1	1A3-10	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	1A3-16	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	FW-AFW
D/PC-742-1	1A3-20	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	DG
D/PC-742-1	1A3-9	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	1A4-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	DG
D/PC-742-1	1A4-11	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC RW
D/PC-742-1	1A4-12	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-1	1B3A-4	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-1	1B3A-7	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-1	1B3B-4	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-1	1B3B-4B-5	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-1	1B3C-4C-4	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-1	1B4A-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-1	1B4C-6	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-1	1B4C-8	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-1	DG-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-1	DG-2	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D/PC-742-1	FCV-269	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	RC	CH
D/PC-742-1	HCV-1041A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1041C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1042A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1042C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	HCV-1385	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW
D/PC-742-1	HCV-1386	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW
D/PC-742-1	HCV-1387A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-1	HCV-1388A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-1	HCV-2504A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-1	HCV-2506A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-1	HCV-2507A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV	SL-PRI
D/PC-742-1	HCV-257	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	RC	CH
D/PC-742-1	HCV-258	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV,R,P	CH
D/PC-742-1	HCV-264	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	RC	CH
D/PC-742-1	HCV-265	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	INV.R.P	CH
D/PC-742-1	HCV-2898A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-400D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-401D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-402D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-403D	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-438A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-438C	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-489A	D/PC-742-1	9841	8W'N-16N'5D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-489B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-491A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW
D/PC-742-1	HCV-491B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D/PC-742-1	HCV-724A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	0	AUX/CCW	VA-CON
D/PC-742-1	HCV-725A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	0	AUX/CCW	VA-CON
D/PC-742-1	LCV-218-2	D/PC-742-1	9841	8W"N-16N'6D	59	1012	NA	7	INV,R,P	CH
D/PC-742-1	PCV-840B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	0	AUX/CCW	VA-CR
D/PC-742-1	RC-4-HTRS-1	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-1	RC-4-HTRS-2	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-1	RC-4-HTRS-3	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	21	PC	EE-5
D/PC-742-1	TCV-202	D/PC-742-1	9841	8W"N-16N'6D	59	1012	NA	7	INV	CH
D/PC-742-1	VA-46A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	10	AUX/CCW	VA-CR
D/PC-742-1	YCV-1045	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-1	YCV-1045A	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA.	7	DHR	MS
D/PC-742-1	YCV-1045B	D/PC-742-1	9841	8W'N-16N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	1A3-10	D/PC-742-2	9841	6W"P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A3-16	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	FW-AFW
D/PC-742-2	1A3-20	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
D/PC-742-2	1A3-9	D/PC-742-2	9941	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A4-1	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	DG
D/PC-742-2	1A4-11	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1A4-12	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	3	AUX/EE	AC-RW
D/PC-742-2	1B3A-4	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-2	1B3A-7	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-2	1B3B-4	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-2	1B3B-4B-5	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-2	1B3C-4C-4	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-2	iB4A-1	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	AC-CCW
D/PC-742-2	1B4C-6	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	2	AUX/EE	CH
D/PC-742-2	1B4C-8	D/PC-742-2	9841	6W"P-14N"6D	59	1012	NA	2	AUX/EE	VA-CON
D/PC-742-2	DG-1	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-2	DG-2	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	17	AUX/EDG	DG
D/PC-742-2	FCV-269	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH
D/PC-742-2	HCV-1041A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1041C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1042A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1042C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
D/PC-742-2	HCV-1385	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW
D/PC-742-2	HCV-1386	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW
D/PC-742-2	HCV-1387B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-2	HCV-1388B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	FW-BD
D/PC-742-2	HCV-2504A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
D/PC-742-2	HCV-2506A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI	
D/PC-742-2	HCV-2507A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV	SL-PRI	
D/PC-742-2	HCV-257	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH	
D/PC-742-2	HCV-258	D/PC-742-2	9841	6WP-14N'6D	59	1012	NA	7	INV.R.P	CH	
D/PC-742-2	HCV-264	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	RC	CH	
D/PC-742-2	HCV-265	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV.R.P	СН	
D/PC-742-2	HCV-2899A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-400A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-400B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-400C	D/PC-742-2	9841	6WP-14N6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-400D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-401A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-401B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-401C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-401D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-402A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-402B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-402C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-402D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-403A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-403B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-403C	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-403D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-438B	D/PC-742-2	9841	6WP-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-438D	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-490A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/OCW	AC-CCW	
D/PC-742-2	HCV-490B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-492A	D/PC-742-2	9841	6W°P-14N°6D	59	1012	NA '	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-492B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	AUX/CCW	AC-CCW	
D/PC-742-2	HCV-724A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON	
D/PC-742-2	HCV-725A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CON	
D/PC-742-2	LCV-218-2	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	INV.R.P	CH	
D/PC-742-2	PCV-841B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	0	AUX/CCW	VA-CR	
D/PC-742-2	RC-4-HTRS-10	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5	
D/PC-742-2	RC-4-HTRS-11	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5	
D/PC-742-2	RC-4-HTRS-12	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	21	PC	EE-5	
D/PC-742-2	VA-46B	D/PC-742-2	9841	6W"P-14N'6D	59	1012	NA	10	AUX/CCW	VA-CR	
D/PC-742-2	YCV-1045	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS	
D/PC-742-2	YCV-1045A	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS	
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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D/PC-742-2	YCV-1045B	D/PC-742-2	9841	6W'P-14N'6D	59	1012	NA	7	DHR	MS
CB-1,2,3	1A3-10	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
CB-1,2,3	1A3-16	D/PfA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	FW-AFW
CB-1,2,3	1A3-20	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	3	AUX/EE	DG
CB-1,2,3	1A3-9	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-1	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	DG
CB-1,2,3	1A4-11	D/PIA-102Y	9829	CB-I - 2 - 3	77	1036	AI-40D-01	3	AUX/EE	AC-RW
CB-1,2,3	1A4-12	D/PIA :02Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	3	AUX/EE	AC-RW
CB-1,2,3	1B3A-4	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	2	AUX/EE	CH
CB-1,2,3	1B3A-7	D/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40D-01	2	AUX/EE	VA-CON
CB-1,2,3	1B3B-4	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B3B-4B-5	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	2	AUX/EE	CH
CB-1,2,3	1B3C-4C-4	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4A-1	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
CB-1,2,3	1B4C-6	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	2	AUX/EE	CH
CB-1,2,3	1B4C-8	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40L-01	2	AUX/EE	VA-CON
CB-1,2,3	DG-1	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	17	AUX/EDG	DG
CB-1,2,3	DG-2	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	17	AUX/EDG	DG
CB-1,2,3	FCV-269	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	RC	CH
CB-1,2,3	HCV-1387A	D/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40D-01	7	DHR	FW-BD
CB-1,2,3	HCV-1387B	D/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	FW-BD
CB-1,2,3	HCV-1388B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40-01	7	DHR	FW-BD
CB-1,2,3	HCV-2504A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	SL-PRI
CB-1,2,3	HCV-2506A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	A1-40D-01	7	INV	SL-PRI
CB-1,2,3	HCV-2507A	D/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	SL-PRI
CB-1,2,3	HCV-257	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	RC	CH
CB-1,2,3	HCV-258	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	INV.R.P	CH
CB-1,2,3	HCV-264	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	RC	CH
CB-1,2,3	HCV-265	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV,R,P	CH
CB-1,2,3	HCV-2898A	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-2899A	D/PiA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400B	D/PIA-102Y	9829	CB-1-2-3	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-400D	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-401B	D/P1A-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3		D/PIA-102Y							The state of the same and the same and	TOTAL THE SECOND STATE

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-1,2,3	HCV-401D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402A	D/P!A-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-402D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403C	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-403D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438C	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-438D	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489A	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-489B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490A	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-490B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-491B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-492B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
CB-1,2,3	HCV-724A	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	0	AUX/CCW	VA-CON
CB-1,2,3	HCV-725A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	0	AUX/CCW	VA-CON
CB-1,2,3	LCV-218-2	D/PIA-102Y	9829	CB-1-2-3	27	1036	AI-40D-01	7	INV,R,P	CH
CB-1,2,3	PCV-840B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	0	AUX/CCW	VA-CR
CB-1,2,3	PCV-841B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	0	AUX/CCW	VA-CR
CB-1,2,3	RC-4-HTRS-I	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
CB-1,2,3	RC-4-HTPS-10	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	21	PC	EE-5
CB-1,2,3	TCV-202	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	INV	CH
CB-1,2,3	VA-46A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
CB-1,2,3	VA-46B	D/PIA-102Y	9829	CB-1-2-3	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
CB-1,2,3	YCV-1045	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	MS
CB-1,2,3	YCV-1045A	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	MS
CB-1,2,3	YCV-1045B	D/PIA-102Y	9829	CB-1 - 2 - 3	77	1036	AI-40D-01	7	DHR	MS
AC-DC-I	1A3-10	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1A3-16	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-I	1A3-9	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-I	1A4-11	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-I	1B3A-4	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3A-7	D/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40D-01	2	AUX/EE	VA-CON
AC-DC-1	1B3B-4	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-I	1B3B-4B-5	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3C-4C-4	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4A-1	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4C-6	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B4C-8	D/PIA-102Y-I	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	VA-CON
AC-DC-1	DG-1	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	DG-2	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	PCV-269	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	HCV-1387A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40D-01	7	DHR	FW-BD
AC-DC-I	HCV-1388A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-2504A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-257	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	CH
AC-DC-1	HCV-258	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-1	HCV-264	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	CH
AC-DC-I	HCV-265	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV,R,P	CH
AC-DC-I	HCV-2898A	D/PtA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	Al-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401D	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402A	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402D	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
						7.00			HUNCLY	AC-CCH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	HCV-403A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-î	HCV-403C	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	D/PIA-102Y-1	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-491A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-724A	D/PIA-102Y-1	9829	AC-DC-I	77	1036	A7-40D-01	0	AUX/CCW	VA-CON
AC-DC-I	HCV-725A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	Al- JD-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	D/PIA-102Y-1	9829	AC-DC-1	77	1036	× × × × × 01	7	INV.R.P	СН
AC-DC-I	PCV-840B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	/D-01	0	AUX/CCW	VA-CR
AC-DC-1	RC-4-HTRS-1	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-2	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-3	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5
AC-DC-1	TCV-202	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	CH
AC-DC-1	VA-46A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	10	AUX/CCW	VA-CR
AC-DC-I	YCV-1045	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	YCV-1045A	D/PIA-102Y-1	9829	AC-DC-1	77	1036	A1-40D-01	7	DHR	MS
AC-DC-1	YCV-1045B	D/PIA-102Y-1	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	MS
AC-DC-1	1A3-10	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	AC-RW
AC-DC-I	1A3-16	D/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40D-01	3	AUX/EE	FW-AFW
AC-DC-I	1A3-20	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-I	1A3-9	D/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40D-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	3	AUX/EE	DG
AC-DC-1	1B3A-4	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	СН
AC-DC-1	1B3A-7	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	VA-CON
AC-DC-1	1B3B-4	D/PtA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-I	1B3B-4B-5	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	CH
AC-DC-1	1B3C-4C-4	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	2	AUX/EE	AC-CCW
AC-DC-1	DG-I	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	DG-2	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	17	AUX/EDG	DG
AC-DC-1	FCV-269	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	RC	CH
AC-DC-I	HCV-1387B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-1388B	D/r1A-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	DHR	FW-BD
AC-DC-1	HCV-2504A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV	SL-PRI

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
AC-DC-1	HCV-2507A	D/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40D 01	7	INV	SL-PRI	
AC-DC-1	HCV-257	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D 0	7	RC	CH	
AC-DC-1	HCV-258	D/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40D-0	7	INV,R,P	CH	
AC-DC-I	HCV-264	D/PIA-102Y-2	9829	AC-DC-1	77	.036	A1-40D-C1	7	RC	CH	
AC-DC-1	HCV-265	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV.R.P	CH	
AC-DC-1	HCV-2899A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-400A	D/P1A-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-400B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-400C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-400D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	A1-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-401A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-401B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-401C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-401D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-402A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-402B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-402C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-402D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403C	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403D	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-438B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-438D	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-490A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-490B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-492A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-492B	D/PIA-102Y-2	9829	AC-DC-I	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-724A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CON	
AC-DC-1	LCV-218-2	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	7	INV.R.P	CH	
AC-DC-1	PCV-841B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	0	AUX/CCW	VA-CR	
AC-DC-1	RC-4-HTRS-10	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5	
AC-DC-I	RC-4-HTRS-11	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5	
AC-DC-1	RC-4-HTRS-12	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	21	PC	EE-5	
AC-DC-1	VA-46B	D/PIA-102Y-2	9829	AC-DC-1	77	1036	AI-40D-01	10	AUX/CCW	VA-CR	
CB-4	HCV-1041A	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS	
CB-4	HCV-1041C	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS	
CB-4	HCV-1042A	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4	HCV-1042C	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	MS
CB-5	HCV-1385	D/PIC-902	9800	CB-4	77	1036	D/PO-902	7	DHR	FW
CB-4	HCV-1386	D/PIC-902	9800	CB-4	77	1036	D/PQ-902	7	DHR	FW
CB-4	HCV-1041A	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4	HCV-1041C	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4	HCV-1042A	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4	HCV-1042C	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	MS
CB-4	HCV-1385	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	FW
CB-4	HCV-1386	D/PIC-905	9800	CB-4	77	1036	D/PQ-905	7	DHR	FW
CB-4 AUX	HCV-1041A	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1041C	D/PIC-A4	9800	CB-4 AUX	77	1036	A1-40D-05	7	DHR	MS
CB-4 AUX	HCV-1042A	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1042C	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1385	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
CB-4 AUX	HCV-1386	D/PIC-A4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
CB-4 AUX	HCV-1041A	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1041C	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1042A	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1042C	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	MS
CB-4 AUX	HCV-1385	D/PIC-BA	9800	CB-4 AUX	77	1036	Al-40D-05	7	DHR	FW
CB-4 AUX	HCV-1386	D/PIC-B4	9800	CB-4 AUX	77	1036	AI-40D-05	7	DHR	FW
DI	1A3-20	DI-112	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	DI-112	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-178-42BPM1	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-178-42BPM2	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-178-42FP	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-18A-103CX	17397	DI	63	1010	NA	17	AUX/EDG	DG
DI	YCV-871G	D1-18A-103CX	17397	DI	63	1010	NA .	0	AUX/EDG	VA-EDL
DI	DG-1	D1-21-103A	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	JW-2-1	D1-21-103A	17397	D-1	57	1019	NA	21	AUX/EDG	IW
DI	DG-1	D1-21-103B	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-103BX	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	YCV-871E	D1-21-103BX	17397	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
Di	YCV-871G	D1-21-103BX	17397	D-1	57	1019	NA	0	AUX/EDG	VA-EDL VA-EDL
DI	YCV-871H	D1-21-103BX	17397	D-1	57	1019	NA	0	AUX/EDG	VA-EDL VA-EDL
Di	DG-1	D1-21-103C	17397	D-1	57	1019	NA	17	AUX/EDG	DG DG
DI	1A3-20	D1-21-104E1	17396	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-104E1	17396	D-1	57	1019	NA	17	AUX/EDG	
DI	DG-1	D1-21-104E1X	17396	D-1	57	1019	NA	17		DG
			1,220		-	1019	1474	17	AUX/EDG	DG

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
DI	1A3-20	D1-21-104E2	17396	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-104E2	17396	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-104E2X	17396	D-1	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-104N	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-i	D1-21-104N	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-104NX	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-105	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-105	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-105X	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-I	DI-21-105X	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-112X1	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-112X1	17397	D-i	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	D1-21-127E1	17396	D-I	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-127E2	17398	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-127E2	17398	D-1	57	1019	NA	17	AUX/EDG	DG
DI	JW-2-1	D1-21-127E2	17398	D-1	57	1019	NA	21	AUX/EDG	JW
DI	YCV-871E	D1-21-127E2	17398	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871G	D1-21-127E2	17398	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871H	DI-21-127E2	17398	D-1	57	1019	NA	0	AUX/EDG	VA-EDL
DI	1A3-20	Di-21-PS7X2	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-PS7X2	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-PS9X	17397	D-I	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-PS9X	17397	D-I	57	1019	NA	17	AUX/EDG	DG
DI	1A3-20	D1-21-TDSTX	17397	D-1	57	1019	NA	3	AUX/EE	DG
DI	DG-1	D1-21-TDSTX	17397	D-1	57	1019	NA	17	AUX/EDG	DG
DI	DG-1	DI-44-SVIX	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-45-SV2X	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
AI-133A	1A3-20	D1-46-TDL	17397	AI-133A	63	1007	NA	3	AUX/EE	DG
DI	DG-1	D1-46-TDL	17397	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-47-TDSF	17397	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-I	D1-49-TDS1	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-50-TDS2	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
AI-133A	1A3-20	D1-52-TDSR	17397	AI-133A	63	1007	NA	3	AUX/EE	DG
DI	DG-1	D1-52-TDSR	17397	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-66-42BPM1	17397	DI	63	1007	NA	17	AUX/EDG	DG
Di	DG-1	D1-66-42BPM1	17410	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-66-42BPM1	17410	DI	63	1007	NA	17	AUX/EDG	DG
DI	FO-4A-1-M	D1-66-42BPM1	17410	DI	63	1007	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	D1-66-42BPM1	17410	AI-133A	63	1007	NA	5	AUX/EDG	FO-DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
DI	FO-4A-1-M	D1-66-42BPM1	17397	DI	63	1007	NA	5	AUX/EDG	FO-DG
DI	DG-1	D1-67-42BPM2	17410	DI	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-67-42BPM2	17410	AI-133A	63	1007	NA	17	AUX/EDG	DG
Di	DG-1	D1-67-42BPM2	17397	DI	63	1007	NA	17	AUX/EDG	DG
DI	FO-4A-2-M	D1-67-42BPM2	17397	DI	63	1007	NA	5	AUX/EDG	FO-DG
DI	FO-4A-2-M	D1-67-42BPM2	17410	DI	63	1007	NA	5	AUX/EDG	FO-DG
DI	FO-4A-2-M	D1-67-42BPM2	17410	AI-133A	63	1007	NA	5	AUX/EDG	FO-DG
DI	DG-1	D1-68-42FP	17411	Di	63	1007	NA	17	AUX/EDG	DG
DI	DG-1	D1-68-42FP	17397	DI	63	1007	NA	17	AUX/EDG	DG
D1	DG-1	D1-68-42FP	17411	AI-133A	63	1007	NA	17	AUX/EDG	DG
DI	JW-2-1	D1-68-42FP	17411	DI	63	1007	NA	21	AUX/EDG	JW
Di	JW-2-1	D1-68-42FP	17411	AI-133A	63	1007	NA	21	AUX/EDG	JW
Di	JW-2-1	D1-68-42FP	17397	DI	63	1007	NA	21	AUX/EDG	JW
DI	JW-2-2	D1-68-42FP	17411	AI-133A	63	1007	NA	21	AUX/EDG	JW
DI	JW-2-2	D1-68-42FP	17411	DI	63	1007	NA	21	AUX/EDG	JW
DI	JW-2-2	D1-68-42FP	17397	DI	63	1007	NA	21	AUX/EDG	JW
D2	1A4-1	D2-112	17397	D-2	57	019	NA	3	AUX/EE	DG
D2	DG-2	D2-112	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-178-42BPM1	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-178-42BPM2	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-178-42FP	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-18A-103CX	17397	D2	64	1010	NA	17	AUX/EDG	DG
D2	YCV-871B	D2-18A-103CX	17397	D2	64	1010	NA	0	AUX/EDG	VA-EDL
D2	DG-2	D2-21-103A	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	JW-2-2	D2-21-103A	17397	D-2	57	1019	NA	21	AUX/EDG	JW
D2	DG-2	D2-21-103B	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-103BX	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	YCV-871A	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871B	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871C	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871D	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871F	D2-21-103BX	17397	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	DG-2	D2-21-103C	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	1A4-1	D2-21-104E1	17396	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-104E1	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104E1X	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	1A4-1	D2-21-104E2	17396	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-104E2	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104E2X	17396	D-2	57	1019	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D2	1A4-1	D2-21-104N	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-104N	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-104NX	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	IA4-1	D2-21-105	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-105	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	1A41	D2-21-105X	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-105X	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	1A4-1	D2-21-112X1	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-112X1	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-21-127E1	17396	D-2	57	1019	NA	17	AUX/EDG	DG
D2	IA4-1	D2-21-127E2	17398	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-127E2	17398	D-2	57	1019	NA	17	AUX/EDG	DG
D2	JW-2-2	D2-21-127E2	17398	D-2	57	1019	NA	21	AUX/EDG	JW
D2	YCV-871A	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
DI	YCV-871B	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871C	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871D	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	YCV-871F	D2-21-127E2	17398	D-2	57	1019	NA	0	AUX/EDG	VA-EDL
D2	1A41	D2-21-PS7X2	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-PS7X2	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	1A4-1	D2-21-PS9X	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-PS9X	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	1A4-1	D2-21-TDSTX	17397	D-2	57	1019	NA	3	AUX/EE	DG
D2	DG-2	D2-21-TDSTX	17397	D-2	57	1019	NA	17	AUX/EDG	DG
D2	DG-2	D2-44-SV1X	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-45-SV2X	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	1A4-1	D2-46-TDL	17397	AI-133B	64	1007	NA	3	AUX/EE	DG
D2	DG-2	D2-46-TDL	17397	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-47-TDSF	17397	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-49-TD\$1	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-50-TDS2	17396	AI-133B	64	1007	NA	17	AUX/EDG	DG
AI-133B	1A4-1	D2-52-TDSR	17397	AI-133B	64	1007	NA	3	AUX/EE	DG
D2	DG-2	D2-52-TDSR	17397	AI-133B	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-66-42BPM1	17410	AI-133A	63	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-66-42BPM1	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	FO-4B-1-M	D2-66-42BPM1	17397	D2	64	1007	NA	5	AUX/EDG	FO-DG
D2	FO-4B-1-M	D2-66-42BPM1	17410	AI-133A	63	1007	NA	5	AUX/EDG	FO-DG
D2	DG-2	D2-67-42BPM2	17397	D2	64	1007	NA	17	AUX/EDG	DG
D2	DG-2	D2-67-42BPM2	17410	AI-133B	64	1007	NA	17	AUX/EDG	DG

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
D2	DG-2	D2-67-42BPM2	17410	D2	64	1007	NA	17	AUX/EDG	DG
D2	PO-4B-2-M	D2-67-42BPM2	17410	AI-133B	64	1007	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	D2-67-42BPM2	17397	D2	64	1007	NA	5	AUX/EDG	PO-DG
D2	FO-4B-2-M	D2-67-42BPM2	17410	D2	64	1007	NA	5	AUX/EDG	FO-DG
D2	DG-2	D2-68-42FP	17397	D2	64	1007	NA	17	AUX/EDG	DG
GM-2	HCV-400A	PC-416A	41269	GM-2	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
GM-2	HCV-400C	FC-416A	41269	GM-2	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
GM-2	HCV-401A	FC-417A	41269	GM-2	77	1036	AI-40B-01	7	AUX/CCW	AC-CCW
GM-2	HCV-401C	PC-417A	41269	GM-2	77	1036	AI-40B-01	7	AUX/OCW	AC-CCW
GM-2	HCV-402A	FC-418A	41269	GM-2	77	1036	Al-40C-01	7	AUX/CCW	AC-CCW
GM-2	HCV-402C	FC-418A	41269	GM-2	77	1036	AI-40C-01	7	AUX/CCW	AC-CCW
GM-2	HCV-403A	PC-419A	41269	GM-2	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
GM-2	HCV-403C	PC-419A	41269	GM-2	77	1036	AI-40D-01	7	AUX/CCW	AC-CCW
FIA-2510	HCV-1387A	FIA-2510	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
FIA-2510	HCV-1388A	FIA-2510	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
FIA-2511	HCV-1387B	FIA-2511	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
FIA-2511	HCV-1388B	FIA-2511	22745	19W'P-30N'5D	60	1012	AI-42B-03	7	DHR	FW-BD
CB-10,11	PCV-1368	FIC-1368	37570	CB-10 - 11	77	1036	AI-42A-05	7	DHR	FW-AFW
AI-66B	FCV-1369	FIC-1369	37570	AI-66B	77	1036	AI-42B-08	7	DHR	FW-AFW
AI-4B	1B3A-4	LC-101-1	9513	AI-4B	77	1036	AI-40A-20	2	AUX/EE	СН
Al-4B	1B3B-4B-5	LC-101-1	9513	AI-4B	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B4C-6	LC-101-1	9513	AI-4B	77	1036	AI-40A-20	2	AUX/EE	СН
AI-4B	1B3A-4	LC-101-2	9513	AI-4B	77	1036	AI-42A-07	2	AUX/EE	CH
AI-4B	1B3B-4B-5	LC-101-2	9513	AI-4B	77	1036	AI-42A-07	2	AUX/EE	CH
AI-48	1B4C-6	LC-101-2	9513	AI-4B	77	1036	AI-42A-07	2	AUX/EE	CH
AI-4A	RC-4-HTRS-1	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-10	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-11	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-12	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-2	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-3	LC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-1	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-10	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-11	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-12	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	
AI-4B	RC-4-HTRS-2	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-3	LC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5 EE-5
FO-2-i	PO-4A-1-M	LC-3418B	17410	6E'K-13N'1A	63	1019	NA NA	5	AUX/EDG	
FO-2-1	FO-4B-1-M	LC-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
						1013	1565		AUA/EDU	FO-DG

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
FO-2-1	PO-4A-1-M	LC-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
PO-2-1	PO-4B-1-M	LC-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LC-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4B-2-M	LC-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	PO-DG
FO-2-2	PO-4A-2-M	LC-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	PO-DG
PO-2-2	FO-4B-2-M	LC-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
AI-4A	1B3A-4	LCA-101X	9513	AI-4A	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4A	1B3B-4B-5	LCA-101X	9513	AI-4A	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4A	1B4C-6	LCA-I01X	9513	AI-4A	77	1036	AI-40A-20	2	AUX/EE	CH
AI-4B	1B3A-4	LCA-101Y	9513	AI-4B	77	1036	AI-40B-21	2	AUX/EE	СН
AI-4B	1B3B-4B-5	LCA-101Y	9513	AI-4B	77	1036	AI-40B-21	2	AUX/EE	CH
AI-4B	1B4C-6	LCA-101Y	9513	AI-4B	77	1036	AI-40B-21	2	AUX/EE	CH
PO-2-1	FO-4A-1-M	LCA-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4B-1-M	LCA-3418B	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	PO-DG
FO-2-1	FO-4A-I-M	LCA-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-1	FO-4B-1-M	LCA-3418C	17410	6E'K-13N'1A	63	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LCA-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	PO-DG
FO-2-2	FO-4B-2-M	LCA-3419B	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4A-2-M	LCA-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
FO-2-2	FO-4B-2-M	LCA-3419C	17410	6E'K-2S'2B	64	1019	NA	5	AUX/EDG	FO-DG
LCS-218	LCV-218-3	LCS-218	9543	43WT-12N7A	29	1019	Al-42B-09	7	INV,R,P	CH
AI-4A	RC-4-HTRS-1	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-10	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-11	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-12	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
Al-4A	RC-4-HTRS-2	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4A	RC-4-HTRS-3	LIC-101X	9513	AI-4A	77	1036	AI-40A-20	21	PC	EE-5
AI-4B	RC-4-HTRS-1	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-10	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-11	LIC-101Y	9513	AI-4B	77	1036	AJ-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-12	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-2	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
AI-4B	RC-4-HTRS-3	LIC-101Y	9513	AI-4B	77	1036	AI-40B-21	21	PC	EE-5
ATA-DI	ATA-DI	LO/ATA-DI	41898	2W'D-0N'IA	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-D2	ATA-D2	LO/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATD-Di	ATD-DI	LO/ATD-D1	22025	7W'D-12N'1A	63	1013	DC-BUS-1# CB	20	AUX/EE	DG
ATD-D2	ATD-D2	LO/ATD-D2	22025	8W'D-0N'2A	64	1013	DC-BUS-2# CB	20	AUX/EE	DG
LS-2898	HCV-2898A	LS-2898	21846	13W'J1-5N'7A	72	1036	AI-41A-12	7	AUX/CCW	AC-CCW
LS-2898	HCV-2898B	LS-2898	21846	13WJ1-5N7A	72	1036	Al-41A-12	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
LS-2899	HCV-2899A	LS-2899	21846	13W'J1-6N'6D	72	1036	Al-41B-12	7	AUX/CCW	AC-CCW
LS-2899	HCV-2899B	LS-2899	21846	13W'J1-6N'6D	72	1036	Al-41B-12	7	AUX/CCW	AC-CCW
Di	FO-4A-I-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	PO-4A-2-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	PO-4A-2-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH1/X	17410	DI	63	1010	NA	5	AUX/EDG	PO-DG
D2	FO-4B-2-M	LSH1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSH2/X1	17410	Di	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSH2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	PO-4A-2-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSH2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	PO-4A-1-M	LSL1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	PO-4A-2-M	LSL1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL1/X	17410	Di	63	1010	NA	5	AUX/EDG	FO-DG
D1	FO-4B-1-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSL1/X	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSL1/X	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-I-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4A-1-M	LSL2/X1	17410	DI	63	1010	NA ·	5	AUX/EDG	FO-DG
D2	PO-4A-2-M	LSL2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4A-2-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL2/X1	17410	DI	63	1010	NA	5	AUX/EDG	FO-DG
DI	FO-4B-1-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSL2/X1	17410	Dì	63	1010	NA	5	AUX/EDG	FO-DG
D2	FO-4B-2-M	LSL2/X1	17410	D2	64	1010	NA	5	AUX/EDG	FO-DG
AC-12A CTRL	AC-12A-M	M/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
AC-12A CTRL	AC-12A-M	m/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
MCC-3B3	AC-12A-M	m/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
MCC-3B3	AC-12A-M	m/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
AC-12A CTRL	HCV-2805A	M/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	7	AUX/RW	AC-RW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-12A CTRL	HCV-2805A	m/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
MCC-3B3	HCV-2805A	M/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
MCC-3B3	HCV-2805A	M/AC-12A	43125	MCC-3B3	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
AC-12B CTRL	AC-12B-M	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
AC-12B CTRL	AC-12B-M	m/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
MCC-4C4	AC-12B-M	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
MCC-4C4	AC-12B-M	M/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
AC-12B CTRL	HCV-2805B	M/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
AC-12B CTRL	HCV-2805B	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
MCC-4C4	HCV-2805B	m/AC-12B	43125	MCC-4C4	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
MCC-4C4	HCV-2805B	M/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
MCC-3C1	PCV-102-1	M/PCV-102-1	37777	MCC-4B1	57	1013	MCC-4B1	7	PC	RC
MCC-4B1	PCV-102-2	M/PCV-102-2	37777	MCC-3C1	57	1013	MCC-3C1	7	PC	RC
MCC-3A1	RC-4-HTRS-1	M/RC-4-HTRS-1	43399	MCC-3A1	57	1013	MCC-3A1-B01	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	M/RC-4-HTRS-10	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	M/RC-4-HTRS-10	43402	MCC-4CI	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	M/RC-4-HTRS-10	43402	MCC-4C1	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	M/RC-4-HTRS-11	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	M/RC-4-HTRS-11	43402	MCC-4C1	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	M/RC-4-HTRS-11	43402	MCC-4CI	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-10	M/RC-4-HTRS-12	43402	MCC-4CI	57	1013	MCC-4CI	21	PC	EE-5
MCC-4C1	RC-4-HTRS-11	M/RC-4-HTRS-12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-4C1	RC-4-HTRS-12	M/RC-4-HTRS-12	43402	MCC-4C1	57	1013	MCC-4C1	21	PC	EE-5
MCC-3A1	RC-4-HTRS-2	M/RC-4-HTRS-2	43399	MCC-3A1	57	1013	MCC-3A1-C01	21	PC	EE-5
MCC-3A1	RC-4-HTRS-3	M/RC-4-HTRS-3	43399	MCC-3A1	57	1013	MCC-3A1-D01	21	PC	EE-5
MCC-4A1	HCV-1041C	Mc/HCV-1041C	21357	MCC-4A1	57	1013	MCC-4A1	7	DHR	MS
MCC-4C1	HCV-1042C	Mc/HCV-1042C	21357	MCC-4C1	57	1013	MCC-4C1	7	DHR	MS
MCC-4C1	HCV-1384	Mc/HCV-1384	54553	MCC-4CI	57	1013	MCC-4C1	7	DHR	FW-AFW
MCC-3A1	HCV-1385	Mc/HCV-1385	41890	MCC-3A1	57	1013	MCC-3A1	7	DHR	FW
MCC-4C1	HCV-1386	Mc/HCV-1386	41890	MCC-4CI	57	1013	MCC-4CI	7	DHR	FW
MCC-3B1	HCV-150	Mc/HCV-150	41445	MCC-3B1	57	1013	MCC-3B1	7	PC	RC
MCC-4A1	HCV-151	Mc/HCV-151	41445	MCC-4A1	57	1013	MCC-4A1	7	PC	RC
MCC-4A2	HCV-258	Mc/HCV-258	41231	MCC-4A2	26	1007	MCC-4A2	7	INV,R,P	CH
MCC-3C2	HCV-265	Mc/HCV-265	41231	MCC-3C2	26	1007	MCC-3C2	7	INV.R.P	CH
MCC-3A2	LCV-218-2	Mc/LCV-218-2	41465	MCC-3A2	4	989	MCC-3A2	7	INV,R,P	CH
MCC-3A2	LCV-218-3	Mc/LCV-218-3	1258	MCC-3A2	4	989	MCC-3A2	7	INV.R.P	CH
VA-46A	PCV-840B	MC:/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	VA-46A	MCI/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
VA-46B	PCV-841B	MCI/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
VA-46B	VA-46B	MCI/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
MCC-3B1	YCV-871G	MEVA-52A	41561	MCC-3B1	57	1013	MCC-3B1	0	AUX/EDG	VA-EDL
MCC-4A1	YCV-871B	Mf/VA-52B	41561	MCC-4A1	57	1013	MCC-4A1	0	AUX/EDG	VA-EDL
MCC-4A1	HCV-1041C	Mo/HCV-1041C	21357	MCC-4A1	57	1013	MCC-4A1	7	DHR	MS
MCC-4C1	HCV-1042C	Mo/HCV-1042C	21357	MCC-4CI	57	1013	MCC-4C1	7	DHR	MS
MCC-4CI	HCV-1384	Mo/HCV-1384	54553	MCC-4C1	57	1013	MCC-4CI	7	DHR	FW-AFW
MCC-3A1	HCV-1385	Mo/HCV-1385	41890	MCC-3A1	57	1013	MCC-3A1	7	DHR	FW
MCC-4C1	HCV-1386	Mo/HCV-1386	41890	MCC-4C1	57	1013	MCC-4CI	7	DHR	FW
MCC-3B1	HCV-150	Mo/HCV-150	41445	MCC-3B1	57	1013	MCC-3B1	7	PC	RC
MCC-4A1	HCV-151	Mo/HCV-151	41445	MCC-4A1	57	1013	MCC-4A1	7	PC	RC
MCC-4A2	HCV-258	Mo/HCV-258	41231	MCC-4A2	26	1007	MCC-4A2	7	INV,R,P	CH
MCC-3C2	HCV-265	Mo/HCV-265	41231	MCC-3C2	26	1007	MCC-3C2	7	INV,R,P	CH
MCC-3A2	LCV-218-2	Mo/LCV-218-2	41465	MCC-3A2	4	989	MCC-3A2	7	INV,R,P	CH
MCC-3A2	LCV-218-3	Mo/LCV-218-3	1258	MCC-3A2	4	989	MCC-3A2	7	INV,R,P	CH
MCC-3B1	YCV-871G	Mr/VA-52A	41561	MCC-3B1	57	1013	MCC-3B1	0	AUX/EDG	VA-EDL
MCC-4A1	YCV-871B	Mr/VA-52B	41561	MCC-4A1	57	1013	MCC-4A1	0	AUX/EDG	VA-EDL
VA-46A	PCV-840B	MS1/VA46A	21846	VA-46A	72	1036	NA	0	AUX/CCW	VA-CR
VA-46A	VA-46A	MS1/VA46A	21846	VA-46A	72	1036	NA	10	AUX/CCW	VA-CP
VA-46B	PCV-841B	MS1/VA46B	21846	VA-463	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	VA-46B	MS1/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
DG-1	DG-1	PC-6026	17396	3E'K-8N'1A	63	1013	NA	17	AUX/EDG	DG
DG-1	DG-I	PC-6038	17396	0E'F-5N'1A	63	1009	NA	17	AUX/EDG	DG
DG-1	DG-1	PC-6039	17396	0E'F-11N'1A	63	1009	NA	17	AUX/EDG	DG
DG-2	1A4-1	PC-6126	17396	3E'K-8S'2B	64	1013	NA	3	AUX/EE	DG
DG-2	DG-2	PC-6126	17396	3E'K-8S'2B	64	1013	NA	17	AUX/EDG	DG
DG-2	DC-2	PC-6138	17396	0E'F-10S'2B	64	1009	NA	17	AUX/EDG	DG
DG-2	DG-2	PC-6139	17396	0ET-4S2B	64	1009	NA	17	AUX/EDG	DG
DG-1	1A3-20	PCA-3349	17397	4E'K-6N'1A	63	1012	NA	3	AUX/EE	DG
DG-1	DG-I	PCA-3349	17397	4E'K-6N'1A	63	1012	NA	17	AUX/EDG	DG
DG-2	1A4-1	PCA-3350	17397	4E'K-9S'2B	64	1012	NA	3	AUX/EE	DG
DG-2	DG-2	PCA-3350	17397	4E'K-9S'2B	64	1012	NA	17	AUX/EDG	DG
PCS-224	1B3A-4	PCS-224	57294	50WT-8N'6E	6	993	NA	2	AUX/EE	CH
PCS-226	1B3A-4	PCS-226	57294	44WT-IN'6E	6	992	AI-40A-20	2	AUX/EE	CH
PCS-227	1B4C-6	PCS-227	57291	35W°T-10N'6E	6	992	NA	2	AUX/EE	CH
PCS-229	1B4C-6	PCS-229	57291	32WT-1N'6E	6	992	AI-40B-21	2	AUX/EE	CH
PCS-230	1B3B-4B-5	PCS-230	57297	18WT-9N6D	6	993	NA	2	AUX/EE	CH
PCS-232	1B3B-4B-5	PCS-232	57297	12WT-1N'6E	6	992	AI-40D-I	2	AUX/EE	CH
PCS-412	HCV-438A	PCS-412	41303	OW'N-ON7A	69	1026	NA	7	AUX/CCW	AC-CCW
PCS-412	HCV-438C	PCS-412	41303	0W'N-0N'7A	69	1026	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
PCS-413	HCV-438B	PCS-413	41303	OW'N-ON'7A	69	1026	NA	7	AUX/CCW	AC-CCW
PCS-413	HCV-438D	PCS-413	41303	OW'N-ON'7A	69	1026	NA	7	AUX/CCW	AC-CCW
CB-1,2,3	RC-4-HTRS-1	PtC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	PIC-103X	9503	CB-1 - 2 - 3	37	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1.2,3	RC-4-HTRS-2	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	PIC-103X	9503	CB-1 - 2 - 3	77	1036	AI-40A-20	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-1	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-10	PIC-103Y	9503	CB-1-2-3	77	1036	AI-40B-21	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-11	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-12	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-2	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
CB-1,2,3	RC-4-HTRS-3	PIC-103Y	9503	CB-1 - 2 - 3	77	1036	AI-40B-21	21	PC	EE-5
AI-56	1B3A-7	POX-1	39723	AI-56	77	1036	NA	2	AUX/EE	VA-CON
AI-56	1B4C-8	POX-1	39723	AI-56	77	1036	NA	2	AUX/EE	VA-CON
AI-56	YCV-871B	POX-3	39723	AI-56	77	1036	NA	0	AUX/EDG	VA-EDL
AI-56	YCV-871G	POX-4	39723	Ai-56	77	1036	NA	0	AUX/EDG	VA-EDL
AI-56	HCV-2898A	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	HCV-2898B	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	HCV-2899A	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	HCV-2899B	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
A1-56	PCV-840B	POX-5	39723	AI-56	77	1036	NA	0	AUX/CCW	VA-CR
AI-56	PCV-841B	POX-5	39723	AI-56	77	1036	NA	0	AUX/CCW	VA-CR
AI-56	TCV-893	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	TCV-894	POX-5	39723	AI-56	77	1036	NA	7	AUX/CCW	AC-CCW
AI-56	VA-46A	POX-5	39723	AI-56	77	1036	NA	10	AUX/CCW	VA-CR
AI-56	VA-46B	POX-5	39723	AI-56	77	1036	NA	10	AUX/CCW	VA-CR
AC-DC-1	1A3-10	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A3-16	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A3-9	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A41	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	DG
AC-DC-1	1A4-11	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1A4-12	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	3	AUX/EE	AC-RW
AC-DC-1	1B3A-4	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	СН
AC-DC-I	1B3A-7	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-I	1B3B-4	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-1	1B3B-4B-5	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	CH

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-1	1B3C-4C-4	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-I	IB4A-I	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	AC-CCW
AC-DC-1	1B4C-6	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	CH
AC-DC-1	1B4C-8	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	2	AUX/EE	VA-CON
AC-DC-1	DG-I	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-I	DG-2	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	17	AUX/EDG	DG
AC-DC-1	FCV-269	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-1387A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-1	HCV-1388A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	FW-BD
AC-DC-I	HCV-2504A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-1	HCV-2506A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-1	HCV-2507A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	INV	SL-PRI
AC-DC-I	HCV-257	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-1	HCV-258	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	INV.R.P	СН
AC-DC-1	HCV-264	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	RC	CH
AC-DC-I	HCV-265	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV.R.P	СН
AC-DC-1	HCV-2898A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	A1-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-401B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-401D	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-402B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402C	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-402D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-403A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-403C	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-403D	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-438C	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-489B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-491B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	кM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AC-DC-I	HCV-724A	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-1	HCV-725A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	0	AUX/CCW	VA-CON
AC-DC-1	LCV-218-2	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	INV.R.P	CH
AC-DC-I	PCV-102-1	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	PC	RC
AC-DC-1	PCV-840B	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	0	AUX/CCW	VA-CR
AC-DC-I	RC-4-HTRS-1	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	21	PC	EE-5
AC-DC-1	RC-4-HTRS-2	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	21	PC	FE-5
AC-DC-I	RC-4-HTRS-3	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	Ai-40A-01	21	PC	EE-5
AC-DC-I	TCV-202	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	INV	CH
AC-DC-1	VA-46A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	10	AUX/CCW	VA-CR
AC-DC-I	YCV-1045	PPLS/BLOCK-A	9831	AC-DC-1	77	1036	AI-40A-01	7	DHR	MS
AC-DC-I	YCV-1045A	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	YCV-1045B	PPLS/BLOCK-A	9831	AC-DC-I	77	1036	AI-40A-01	7	DHR	MS
AC-DC-1	1A3-10	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	AC-RW
AC-DC-I	1A3-16	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	FW-AFW
AC-DC-1	1A3-20	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	DG
AC-DC-I	1A3-9	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	AC-RW
AC-DC-1	1A4-1	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	3	AUX/EE	DG
AC-DC-I	1B3A-4	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	2	AUX/EE	CE
AC-DC-1	1B3A-7	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	VA-CON
AC-DC-1	1B3B-4	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	AC-CCW
AC-DC-I	1B3B-4B-5	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	CH
AC-DC-1	1B3C-4C-4	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	2	AUX/EE	AC-CCW
AC-DC-1	DG-I	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	17	AUX/EDG	DG
AC-DC-I	DG-2	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA.	17	AUX/EDG	DG
AC-DC-1	FCV-269	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	RC	CH
AC-DC-1	HCV-1387B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	DHR	FW-BD
AC-DC-1	HCV-1388B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	DHR	FW-BD
AC-DC-1	HCV-2504A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV	SL-PRI
AC-DC-I	HCV-2506A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV	SL-PRI
AC-DC-1	HCV-2507A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV	SL-PRI
AC-DC-1	HCV-257	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	RC	CH
AC-DC-1	HCV-258	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV.R.P	CH
AC-DC-1	HCV-264	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	RC	CH
AC-DC-1	HCV-265	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV,R,P	CH
AC-DC-1	HCV-2899A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
AC-DC-1	HCV-400A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400B	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW
AC-DC-I	HCV-400C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
AC-DC-I	HCV-400D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA		AUX/CCW	AC-CCW	
AC-DC-I	HCV-401A	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-401B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-I	HCV-401C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-401D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-402A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-402B	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-402C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-402D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403C	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-403D	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-438B	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-438D	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-490A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-490B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-492A	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-492B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	AUX/CCW	AC-CCW	
AC-DC-1	HCV-724A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	0	AUX/CCW	VA-CON	
AC-DC-1	HCV-725A	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	0	AUX/CCW	VA-CON	
AC-DC-1	LCV-218-2	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	INV,R,P	CH	
AC-DC-1	PCV-102-2	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	7	PC	RC	
AC-DC-1	PCV-841B	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	0	AUX/CCW	VA-CR	
AC-DC-1	RC-4-HTRS-10	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	21	PC	EE-5	
AC-DC-1	RC-4-HTRS-11	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	21	PC	EE-5	
AC-DC-1	RC-4-HTRS-12	PPLS/BLOCK-B	9831	AC-DC-1	77	1036	NA	21	PC	EE-5	
AC-DC-1	VA-46B	PPLS/BLOCK-B	9831	AC-DC-I	77	1036	NA	10	AUX/CCW	VA-CR	
PS-1107B	HCV-1107B	PS-1107B	21422	3E'H-5N'3A	81	1041	NA	7	DHR	FW-AFW	
PS-1108B	HCV-1108B	PS-1108B	21421	3E'J-1S'5B	81	1041	NA	7	DHR	FW-AFW	
DG-1	1A3-20	PS-6019-1	17397	3E'K-5N'1A	63	1013	NA.	3	AUX/EE	DG	
DG-1	DG-1	PS-6019-1	17397	3E'K-5N'1A	63	1013	NA	17	AUX/EDG	DG	
DG-2	1A4-1	PS-6020-1	17397	3E'K-10S'2B	64	1013	NA	3	AUX/EE	DG	
DG-2	DG-2	PS-6020-1	17397	3E'K-10S'2B	64	1013	NA	17	AUX/EDG	DG	
AI-33A	HCV-2898A	RM-050	9799	AI-33A	77	1036	A1-40C-19	7	AUX/CCW	AC-CCW	
AI-33A	HCV-2898B	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
AI-33A	HCV-2899A	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
AI-33A	HCV-2899B	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX.CCW	AC-CCW	
AI-33A	HCV-724A	RM-050	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CON	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM	
AI-33A	HCV-725A	RM-050	9799	AI-33A	77	1036	A1-40C-19	0	AUX/CCW	VA-CON	
A1-33A	PCV-840B	RM-050	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CR	
AI-33A	PCV-841B	RM-050	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CR	
AI-33A	TCV-893	RM-050	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
AI-33A	TCV-894	RM-050	9799	Al-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
AI-33A	VA-46A	RM-050	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR	
AI-33A	VA-46B	RM-050	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR	
AI-33A	HCV-2898A	RM-051	9799	A1-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
AJ-33A	HCV-2898B	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
11-33A	HCV-2899A	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
AI-33A	HCV-2899B	RM-051	9799	Al-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
A1-33A	HCV-724A	RM-051	9799	AI-33A	77	1036	AI-40C-19	0			
AI-33A	HCV-725A	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/OCW	VA-CON	
AI-33A	PCV-840B	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CON	
AI-33A	PCV-841B	RM-051	9799	AI-33A	77	1036	AI-40C-19	0	AUX/CCW	VA-CR	
AI-33A	TCV-893	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	VA-CR	
AI-33A	TCV-894	RM-051	9799	AI-33A	77	1036	AI-40C-19	7	AUX/CCW	AC-CCW	
A1-33A	VA-46A	RM-051	9799	AI-33A	77	1036	AI-40C-19		AUX/CCW	AC-CCW	
AI-33A	VA-46B	RM-051	9799	AI-33A	77	1036	AI-40C-19	10	AUX/CCW	VA-CR	
AI-33A	HCV-1387A	RM-054A	9799	AI-33A	77	1036	AI-40C-19	10 7	AUX/CCW	VA-CR	
AI-33A	HCV-1388A	RM-054A	9799	AI-33A	77	1036	Al-40C-19	7	DHR	FW-BD	
AI-33A	HCV-1387B	RM-054B	9799	AI-33A	77	1036	AI-40D-09	7	DHR	FW-BD	
AI-33A	HCV-1388B	RM-054B	9799	AI-33A	77	1036	AI-40D-09	7	DHR	FW-BD	
AI-33B	HCV-2898A	RM-060	9799	AI-33B	77	1036		7	DHR	FW-BD	
A1-33B	HCV-2898B	RM-060	9799	AI-33B	77	1036	AI-40D-19 AI-40D-19	7	AUX/CCW	AC-CCW	
AI-33B	HCV-2899A	RM-060	9799	AI-33B	77	1036	AI-40D-19	2	AUX/CCW	AC-CCW	
A1-33B	HCV-2899B	RM-060	9799	Al-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW	
AI-33B	HCV-724A	RM-060	9799	AI-33B	77	1036			AUX/CCW	AC-CCW	
AI-33B	HCV-725A	RM-060	9799	Al-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON	
Al-33B	PCV-840B	RM-060	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON	
AI-33B	PCV-841B	RM-060	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR	
AI-33B	TCV-893	RM-060	9799	AI-33B	77		AI-40D-19	0	AUX/CCW	VA-CR	
AI-33B	TCV-894	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW	
AI-33B	VA-46A	RM-060	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW	
A1-33B	VA-46B	RM-060	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR	
AI-33B	HCV-2898A	RM-061	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR	
AI-33B	HCV-2898B	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW	
AI-33B	HCV-2899A	RM-061	9799	AI-33B		1036	AI-40D-19	7	AUX/CCW	AC-CCW	
AI-33B	HCV-2899B	RM-061	9799		77	1036	AI-40D-19	7	AUX/CCW	AC-CCW	
AL JOB	11C V-2099B	KWI-001	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW	

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-33B	HCV-724A	RM-061	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON
AI-33B	HCV-725A	RM-061	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON
AI-33B	PCV-840B	RM-061	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	PCV-841B	RM-061	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	TCV-893	RM-061	9799	AI-33B	77	1036	Al-40D-19	7	AUX/CCW	AC-CCW
AI-33B	TCV-894	RM-061	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	VA-46A	RM-061	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
AI-33B	VA-46B	RM-061	9799	AI-33B	77	1036	Al-40D-19	10	AUX/CCW	VA-CR
AI-33B	HCV-2898A	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2898B	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899A	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-2899B	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	HCV-724A	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON
AI-33B	HCV-725A	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CON VA-CON
AI-33B	PCV-840B	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	PCV-841B	RM-062	9799	AI-33B	77	1036	AI-40D-19	0	AUX/CCW	VA-CR
AI-33B	TCV-893	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	AC-CCW
AI-33B	TCV-894	RM-062	9799	AI-33B	77	1036	AI-40D-19	7	AUX/CCW	
AI-33B	VA-46A	RM-062	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	AC-CCW VA-CR
AI-33B	VA-46B	RM-062	9799	AI-33B	77	1036	AI-40D-19	10	AUX/CCW	VA-CR
VA-46A	PCV-840B	RR/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	VA-46A	RR/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR VA-CR
VA-46B	PCV-841B	RR/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	VA-46B	RR/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW	VA-CR
AI-133A	1A3-20	RS1/D1	17396	AI-133A	63	1007	NA	3	AUX/EE	DG
AI-133A	DG-1	RSI/DI	17396	AI-133A	63	1007	NA	17	AUX/EDG	DG
AI-133B	1A4-1	RS1/D2	17396	AI-133B	64	1007	NA	3	AUX/EE	DG
AI-133B	DG-2	RS1/D2	17396	Al-133B	64	1007	NA	17	AUX/EDG	DG
AI-133A	1A3-20	RS2/D1	17396	AI-133A	63	1007	NA	3	AUX/EE	DG
AI-133A	DG-1	RS2/D1	17396	AI-133A	63	1007	NA	17	AUX/EDG	
AI-133B	1A4-1	RS2/D2	17396	AI-133B	64	1007	NA	3	AUX/EE	DG DG
Al-133B	DG-2	RS2/D2	17396	AI-133B	64	1007	NA	17	AUX/EDG	
HCV-247	HCV-247	SCB-247	37607	9W'BB-33N'II	CONT	1004	NA	7	INV,R,P	DG
HCV-248	HCV-248	SCB-248	37607	18W'CC-9N'II	CONT	1002	NA	7		CH
ATA-DI	ATA-DI	SE/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	INV,R,P	CH
ATA-D2	ATA-D2	SE/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATD-D1	ATD-DI	SE/ATD-DI	22025	7W'D-12N'1A	63	1013	DC-BUS-1# CB	20	AUX/EE	DG DG
ATD-D2	ATD-D2	SE/ATD-D2	22025	8W'D-0N'2A	64	1013	DC-BUS-2# CB	20	AUX/EE	
CB-4 AUX	HCV-1041A	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7		DG
				Car Titola	**	1030	AI-WA-U	,	DHR	MS

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
CB-4 AUX	HCV-1041C	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042A	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1042C	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	MS
CB-4 AUX	HCV-1385	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1386	SGLS/BLOCK-A	9821	CB-4 AUX	77	1036	AI-40A-05	7	DHR	FW
CB-4 AUX	HCV-1041A	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1041C	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042A	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1042C	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	MS
CB-4 AUX	HCV-1385	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	A1-40B-03	7	DHR	FW
CB-4 AUX	HCV-1386	SGLS/BLOCK-B	9821	CB-4 AUX	77	1036	AI-40B-03	7	DHR	FW
DG-1	JW-2-1	TC-6032	17411	2W'K-9N'1A	63	1013	NA	21	AUX/EDG	JW
DG-2	JW-2-2	TC-6132	17411	2W'K-6S'2B	64	1013	NA	21	AUX/EDG	3W
TC-858A	YCV-871G	TC-858A	15701	7W'D-12N'1A	63	1011	NA	0	AUX/EDG	VA-EDL
TC-858B	YCV-871B	TC-858B	15701	7W'D-21N'1A	64	1011	NA	0	AUX/EDG	VA-EDL
DG-1	1A3-20	TCA-3345	17397	4E'K-10N'1A	63	1015	NA	3	AUX/EE	DG
DG-1	DG-1	TCA-3345	17397	4E'K-10N'1A	63	1015	NA	17	AUX/EDG	DG
DG-2	1A+1	TCA-3346	17397	4E'K-5S'2B	64	1015	NA	3	AUX/EE	DG
DG-2	DG-2	TCA-3346	17397	4E'K-5S'2B	64	1015	NA	17	AUX/EDG	DG
CB-1,2,3	TCV-202	TIC-202	1279	CB-1,2,3	77	1036	AI-42A-07	7	INV	CH
AC-12A CTRL	AC-12A-M	TR/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	0	AUX/RW	AC-RW
AC-12A CTRL	HCV-2805A	TR/AC-12A	43125	AC-12A CTRL PANEL	INTK	994	MCC-3B3	7	AUX/RW	AC-RW
AC-12B CTRL	AC-12B-M	TR/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	0	AUX/RW	AC-RW
AC-12B CTRL	HCV-2805B	TR/AC-12B	43125	AC-12B CTRL PANEL	INTK	994	MCC-4C4	7	AUX/RW	AC-RW
ATA-DI	ATA-DI	TS/ATA-DI	41898	2W'D-0N'1A	63	1013	MCC-3B1	20	AUX/EE	DG
ATA-D2	ATA-D2	TS/ATA-D2	41898	3W'D-0N'2A	64	1013	MCC-4A1	20	AUX/EE	DG
ATD-DI	ATD-DI	TS/ATD-D1	22025	7W'D-12N'1A	63	1013	DC-BUS-1# CB	20	AUX/EE	DG
ATD-D2	ATD-D2	TS/ATD-D2	22025	8W'D-0N'2A	64	1013	DC-BUS-2# CB	20	AUX/EE	DG
VA-46A	PCV-840B	TS/VA46A	21846	VA-46A	72	1036	MCC-3B1	0	AUX/CCW	VA-CR
VA-46A	VA-46A	TS/VA46A	21846	VA-46A	72	1036	MCC-3B1	10	AUX/CCW	VA-CR
VA-46B	PCV-841B	TS/VA46B	21846	VA-46B	72	1036	MCC-4A1	0	AUX/CCW	VA-CR
VA-46B	VA-46B	TS/VA46B	21846	VA-46B	72	1036	MCC-4A1	10	AUX/CCW/	VA-CR
AI-34	HCV-2898A	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-34	HCV-2898B	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-34	HCV-2899A	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	. 7	AUX/CCW	AC-CCW
AI-34	HCV-2899B	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
A1-34	PCV-840B	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	0	AUX/CCW	VA-CR
AI-34	PCV-841B	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	0	AUX/CCW	VA-CR
A1-34	TCV-893	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW

BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
AI-34	TCV-894	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	7	AUX/CCW	AC-CCW
AI-34	VA-46A	YIS-6287A	21847	AI-34	77	1036	AI-42A-09	10	AUX/CCW	VA-CR
AI-34	VA-46B	YIS-6287A	21847	Al-34	77	1036	AI-42A-09	10	AUX/CCW	VA-CR
AI-35	HCV-2898A	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/OCW	AC-CCW
AI-35	HCV-2898B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
AI-35	HCV-2899A	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
AI-35	HCV-2899B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
AI-35	PCV-840B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	0	AUX/CCW	VA-CR
AI-35	PCV-841B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	0	AUX/CCW	VA-CR
AI-35	TCV-893	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
AI-35	TCV-894	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	7	AUX/CCW	AC-CCW
AI-35	VA-46A	Y1S-6287B	21847	AI-35	77	1036	A1-42B-11	10	AUX/CCW	VA-CR
AI-35	VA-46B	YIS-6287B	21847	AI-35	77	1036	AI-42B-11	10	AUX/CCW	VA-CR
YIT-6286A	HCV-2898A	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2898B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2899A	Y1T-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286A	HCV-2899B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286A	PCV-840B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6286A	PCV-841B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6286A	TCV-893	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286A	TCV-894	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6286A	VA-46A	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6286A	VA-46B	YIT-6286A	21847	4W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6286B	HCV-2898A	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/OCW	AC-CCW
YIT-6286B	HCV-2898B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286B	HCV-2899A	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/OCW	AC-CCW
YIT-6286B	HCV-2899B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286B	PCV-840B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	0	AUX/CCW	VA-CR
YIT-6286B	PCV-841B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	0	AUX/CCW	VA-CR
YIT-6286B	TCV-893	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286B	TCV-894	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	7	AUX/CCW	AC-CCW
YIT-6286B	VA-46A	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	10	AUX/CCW	VA-CR
YIT-6286B	VA-46B	YIT-6286B	21847	10W'D-0N'6D	77	1040	AI-42B-11	10	AUX/CCW	VA-CR
YIT-6288A	HCV-2898A	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288A	HCV-2898B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288A	HCV-2899A	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288A	HCV-2899B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288A	PCV-840B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6288A	PCV-841B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR

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BOX	ASSEL	RELAY	FILE	LOCATION	RM	ELEV	POWER	CLASS	SSPATH	SYSTEM
YTT-6288A	TCV-893	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288A	TCV-894	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YTT-6288A	VA-46A	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6288A	VA-46B	YIT-6288A	21847	2W'E-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6288B	HCV-2898A	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	HCV-2898B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	HCV-2899A	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	HCV-2899B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	PCV-840B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6288B	PCV-841B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	0	AUX/CCW	VA-CR
YIT-6288B	TCV-893	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	TCV-894	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	7	AUX/CCW	AC-CCW
YIT-6288B	VA-46A	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YIT-6288B	VA-46B	YIT-6288B	21847	12W'D-0N'6D	77	1040	NA	10	AUX/CCW	VA-CR
YT-6048	1A3-20	YT-6048	17398	2E'K-5N'1A	63	1014	NA	3	AUX/EE	DG
YT-6048	DG-1	YT-6048	17398	2E'K-5N'1A	63	1014	NA	17	AUX/EDG	DG
YT-6048	JW-2-1	YT-6048	17398	2E'K-5N'1A	63	1014	NA	21	AUX/EDG	JW
YT-6048	YCV-871E	YT-6048	17398	2E'K-5N'1A	63	1014	NA	0	AUX/EDG	VA-EDL
YT-6048	YCV-871G	YT-6048	17398	2E'K-5N'1A	63	1014	NA	0	AUX/EDG	VA-EDL VA-EDL
YT-6048	YCV-871H	YT-6048	17398	2E'K-5N'1A	63	1014	NA	0	AUX/EDG	VA-EDL
YT-6148	1A4-1	YT-6148	17398	2E'K-10S'2B	64	1014	NA	3	AUX/EE	DG
YT-6148	DG-2	YT-6148	17398	2E'K-10S'2B	64	1014	NA	17	AUX/EDG	DG
YT-6148	JW-2-2	YT-6148	17398	2E'K-10S'2B	64	1014	NA	21	AUX/EDG	JW .
YT-6148	YCV-871A	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
YT-6048	YCV-871B	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL VA-EDL
YT-6148	YCV-871C	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL
YT-6148	YCV-871D	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	
YT-6148	YCV-871F	YT-6148	17398	2E'K-10S'2B	64	1014	NA	0	AUX/EDG	VA-EDL VA-EDL
									MUNELO	TA-EDL

RELAY EVALUATION REPORT

APPENDIX C.

RELAY EVALUATION REPORT

APPENDIX C.

ASSOCIATED RELAY FILES

1258 *	9808	12280	24062	41898 *
1267 *	9811			42521 *
1276 *	9812	12286 *	24368 *	43125 *
1279 *	9813	12287 *	24369 *	43223 *
1587	9814	12332 *		43388
1605	9815	12333 *	37570 *	43389 *
5649	9816	12517	37607 *	43398 *
5650	9817	12597 *	37777 *	43399 *
5976	9818	15418 *	39723	43402 *
6622	9821	16143	40247	43437 *
9397	9828	16145		54553 *
9398	9829	16951		57238
9400	9831	17396 *	41231 *	57240
9401	9841	17397 *	41269 *	5.7241
9402	9953 *	17398 *	41271 *	57291 *
9403	9958 *	17410 *	41303 *	57294 *
9405	9960 *	17411 *	41445 *	57295 *
9406	9962 *	20260	41465 *	57296 *
9407	9967 *	21357 *		57297 *
9410	9968 *	21421 *	41561 *	57300 *
9503	9969 *	21422 *	41564	57303 *
9513	9980 *	21423 *	41567	57305
9543	9986 *	21846 *	41468	57306
9799	9988 *	21847 *	41573	57307 *
9800	9994 *	22025 *	41574	57308
9801	9995 *	22125 *	41588 *	57309 *
9802	9996 *	22613 *	41614 *	57310 *
9803	10791*	22745 *	41671 *	57311 *
9804	12254	23736 *	41672 *	57312 *
9805	12255	23737 *	41673	57313 *
9806	12263 *	24060	41692 *	57314 *
9807		24061	41890 *	57315 *

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-196	03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-196	03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	Al-196	57	1013	NA	ESNTL
AI-196	03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-197	03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-196	03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-196	03/A-RC21-1-1	16145	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-196	03/A-RC2B-1-2	16145	F180	N-2AO-L2C-R	Al-196	57	1013	NA	ESNTL
AI-196	03/A-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-196	03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	57	1013	NA	ESNTL
AI-197	03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	56	1011	NA	ESNTL
AI-197	03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-197	56	1011	NA	ESNTL
AI-197	03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AJ-197	56	1011	NA	ESNTL
AI-197	03/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	AJ-197	56	1011	NA	ESNTL
AI-197	03/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	56	1011	NA	ESNTI.
AI-197	03/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	56	1011	NA	ESNTL
AI-197	03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	56	1011	NA	ESNTL
AI-197	03/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	56	1011	NA	ESNTL.
AI-198	03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTL
Ai-198	03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTL
AI-198	03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTL
AI-198	03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	Al-198	57	1013	NA	ESNTL
Al-198	03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTL
Al-198	03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTI.
AI-198	03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTL
AI-198	03/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	57	1013	NA	ESNTL
AJ-199	03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNTL.
AI-199	03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNTL
AI-199	03/D-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNIL
AI-199	03/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNIL
AI-199	03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNTL
AI-199	03/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNTL
AI-199	03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNTL
AI-199	03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-199	56	1011	NA	ESNTL
RB-D1	183-MES/D1X	23736	G080	CR120BDD32	RB-DI	63	1007	NA	DCA
RB-D2	183-MES/D2X	23737	G080	CR120BDD32	RB-D2	64	1007	NA	DCA -
AI-109B	183X1	43388	G080	12HFA151A2H	AI-109B	56	1011	AI-41B-06	ESNTL
AI-109B	183X3	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B	ESNTL
AI-109B	183X4	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B	ESNTL
AI-109B	183X5	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-109B	183X6	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B	ESNTL.
AI-109B	183X7	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B	ESNTL
AI-109B	183X8	43388	G080	12HFA151A2H	AI-109B	56	1014	A1-41B	ESNTL
AI-109B	183X9	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B	ESH IL
AI-133A	ICR/D1	6622	P297	CST-38-70010	D-1	57	1019	NA	ESNTL
AI-133B	1CR/D2	6622	P297	CST-38-70010	D-2	57	1019	NA	ESNTL
DI	ICRX/D1	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
D2	1CRX/D2	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
ATA-D1	IV/ATA-DI	41898	A610	906172C	2W'D-0N'1A	63	1013	MCC-3B1	DCA
ATA-D2	IV/ATA-D2	41898	A610	906172C	3W'D-0N'2A	64	1013	MCC-4A1	DCA
1A2	27-1/1A2	57240	G080	12IAV53L1A	1A2-04	56	1011	1A2	DCA
1A3	27-1/1A3	9397	G080	121AV53L1A	1A3-04	56	1011	IA3	DCA
1A4	27-1/1A4	9398	G080	12IAV53L1A	1A4-17	56	1011	1A4	DCA
1B3A	27-1/1B3A	12254	G080	12IAV53L1A	1B3A	56	1011	1B3A	CONTL
1B3B	27-1/1B3B	57305	G080	12IAV53LIA	1B3B	56	1011	1B3B	ESNTL
1B3B	27-1/1B3B-4B	57305	G080	12IAV53LIA	1B3B	56	1011	1B3B-4B	ESIATE
1B3C-4C	27-1/1B3C-4C	57308	G080	12IAV53L1A	1B3C-4C	56	1011	1B3C-4C	ESNTL
IB4A	27-1/1B4A	12254	G080	12IAV53L1A	1B4A	56	1011	1B4A	ESNTL
1B4C	27-1/1B4C	57308	G080	12IAV53L1A	1B4C	56	1011	IB4C	ESNTL
AI-133A	27-1/D1	9808	G080	12PJV11AFIA	AI-133A	63	1007	NA	ESNTL
AI-133B	27-1/D2	9818	G080	12PJV11AFIA	AI-133B	64	1007	NA	ESNTL
AI-30A(S1-1)	27-1/\$1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-2)	27-1/S1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	77	1036	AI-41B-13	ESNTL
AI-30B(S2-1)	27-1/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	77	1036	AI-41B-06	ESNTL
AI-30B(S2-2)	27-1/S2-2	9815	G080	12HFA51A42F	AI-30B(S2-2)	77	1036	AI-41A-13	ESNTL
AI-30A(S1-1)	27-1X/Si-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-2)	27-1X/S1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	77	1036	AI-41B-13	ESNTL
AI-30B(S2-1)	27-1X/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	77	1036	AI-41B-06	ESNTI.
AI-30B(S2-2)	27-1X/S2-2	9815	G080	12HFA51A42F	A1-30B(S2-2)	77	1036	AI-41A-13	ESNTL
AI-30A(D1)	27-1XA/D1	9808	G980	12HFA51A42F	AI-30A(D1)	77	1036	AI-41A-06	ESNTL
AI-30B(D2)	27-1XA/D2	9818	G080	12HFA151A2F	AI-30B(D2)	77	1036	AI-41A-13	ESNTL
1A2	27-2/1A2	57240	G080	12IAV53L1A	1A2-04	56	1011	1A2	DCA
1A3	27-2/1A3	9397	G080	12IAV53L1A	1A3-04	56	1011	1A3	DCA
1A4	27-2/1A4	9398	G080	12IAV53L1A	1A4-17	56	1011	1A4	DCA
1B3A	27-2/1B3A	12254	G080	12IAV53L1A	1B3A	56	1011	1B3A	ESNTL
1B3B	27-2/1B3B	57305	G080	12IAV53LIA	1B3B	. 56	1011	1B3B	ESNTL
1B3B	27-2/1B3B-4B	57305	G080	12IAV53LIA	1B3B	56	1011	1B3B-4B	ESNTL
1B3C-4C	27-2/1B3C-4C	57308	G080	12IAV53L1A	1B3C-4C	56	1011	1B3C-4C	ESNTL
IB4A	27-2/1B4A	12254	G080	12IAV53L1A	IB4A	56	1011	IB4A	ESNTL
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1B4C	27-2/1B4C	57308	G080	12IAV53L1A	1B4C	56	1011	1B4C	ESNTL
AI-133A	27-2/D1	9808	G080	12PJV11AFIA	AI-133A	63	1007	NA	ESNTL
AI-133B	27-2/D2	9818	G080	12PJV11AFIA	AI-133B	64	1007	NA	ESNTL
AI-30A(D1)	27-2XB/D1	9808	G080	12HFA51A42F	AI-30A(D1)	77	1036	AI-41B-13	ESNIL
Al-30B(D2)	27-2XB/D2	9818	G080	12HFA151A2F	AI-30B(D2)	77	1036	AI-41B-06	ESNIL
AI-23A	27-3X/1A3	57238	P297	KAP14DG	AI-23A	77	1036	AI-41A-16	ESNTL.
AI-25A	27-3X/1A4	57240	P297	KAP14DG	A1-25A	77	1036	Al-41B-16	ESNTL.
1B3A	27-T1/1B3A	12254	A109	2412PC	1B3A	56	1011	EE-8F	ESNTL.
1B3B	27-T1/1B3B	57305	A109	2412PC	1B3B	56	1011	EE-8F	ESNTL.
1B3B-4B	27-T1/1B3B-4B	57305	A109	2412PC	1B3B-4B	56	1011	EE-8G	ESNTL
1B3C-4C	27-T1/1B3C-4C	57308	A109	2412PC	1B3C-4C	56	1011	EE-8F	ESNTL
IB4A	27-T1/IB4A	12254	A109	2412PC	1B4A	56	1011	EE-8G	ESNTL.
1B4C	27-T1/IB4C	57308	A109	2412PC	1B4C	56	1011	EE-8G	ESNTL.
1A4	27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4-19	56	1011	EE-8B	ESNTL
1A4	27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4-17	56	1011	NA	ESNTL
1A3	27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3-2	56	1011	NA	ESNTL.
1A4	27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4-19	56	1011	NA	ESNTL
AI-26A	27T1/1A2	57240	A109	2452PB	AI-26A	77	1036	AI-41B-16	DCA
A1-24A	27T1/1A3	9397	A109	2452PB	AI-24A	77	1036	Al-41A-16	ESNTL
AI-25A	27T1/1A4	9398	E982	7012PBX	AI-25A	77	1036	Al-41B-16	ESNTL
A1-24A	27T1S/1A3	9397	G080	12HFA151A2H	Al-24A	77	1036	AI-41A-16	ESNTL
A1-25A	27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	77	1036	Al-41B-16	ESNTL
AI-24A	27T1S1/1A3	9397	G080	12HFA151A2H	AI-24A	77	1036	Al-41A-16	ESNTL.
AI-25A	27T1S1/1A4	9398	G080	12HFA151A2H	A1-25A	77	1036	AI-41B-16	ESNTL
AI-23A	27T1X/1A1	57238	G080	12HFA51A42H	AI-23A	77	1036	AI-41A-16	DCA
AI-26A	27T1X/1A2	57240	G080	12HFA51A42H	A1-26A	77	1036	AI-41B-16	DCA
1B3A	27T1X/1B3A	12254	C980	12HFA151A2H	1B3A	56	1011	EE-8F	ESNTL
1B3B	27T1X/1B3B	57305	G080	12HFA151A2H	1B3B	56	1011	EE-81	ESNTL
1B4B	27T1X/1B3B-4B	57305	G080	12HFA151A2H	1B4B	56	1011	FE-8G	ESNTL
1B3C-4C	27T1X/1B3C-4C	57308	G080	12HFA51A42H	1B3C-4C	56	1011	EE-8G	ESNTL
1B4A	27T1X/1B4A	12254	G080	12HFA151A2H	1B4A	56	1011	EE-8G	ESNTL.
1B4C	27T1X/1B4C	57308	G080	12HFA151A2H	1B4C	56	1011	EE-8G	ESNTL
AI-23A	27T1Y/1A1	57238	G080	12HFA51A42H	AI-23A	77	1036	Al-41A-16	DCA
AI-26A	27T1Y/1A2	57240	G080	12HFA51A42H	AI-26A	77	1036	AI-41B-16	DCA
AI-24A	27T2/1A3	57241	A109	2452PB	AI-24A	77	1036	AI-41B-16	ESNIL
AI-26A	27T2/1A4	9398	A109	2452PB	AI-26A	. 77	1036	AI-41A-16	ESNTL
Al-24A	27T2S/1A3	57241	G080	12HFA151A2H	Al-24A	77	1036	AI-41B-16	ESNIL
AI-26A	27T2S/1A4	9398	G080	12HFA151A2H	AI-26A	77	1036	AI-41A-16	ESNIL
CB-4 AUX	27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40A-05	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
CB-4 AUX	27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40B-03	ESNTL
CB-4 AUX	27X1/GPLS-C	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40C-05	ESNTL
CB-4 AUX	27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40D-05	ESNTL
CB-4 AUX	27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40A-05	ESNTL
CB-4 AUX	27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40B-03	ESNTL.
CB-4 AUX	27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40C-05	ESNTL
CB-4 AUX	27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	77	1036	AI-40D-05	ESNTL
ATA-DI	2V/ATA-D1	41898	A610	906172C	2W'D-0N'1A	63	1013	MCC-3B1	DCA
ATA-D2	2V/ATA-D2	41898	A610	906172C	3W'D-0N'2A	64	1013	MCC-4A1	DCA
Al-198	3/102-1	37777	F180	N-2AO-L2C-R	AI-198	57	1013	NA	DCA
AI-197	3/102-2	37777	F180	N-2AO-L2C-R	AI-197	56	1011	NA	DCA
AJ-106A	33X/291	43437	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
AI-106B	33X/292	43437	G080	CR120B04022	Al-106B	77	1036	NA	ESNTL
AI-185	3A1/AI-185	12517	G080	CR2811A217K	AI-185	57	1013	EE-8G-16	LFS
Al-185	3A2/AI-185	12517	G080	CR2811A217G	AI-185	57	1013	EE-8G-16	LFS
ATA-D1	3V/ATA-D1	41898	A610	906172C	2W'D-0N'1A	63	1013	MCC-3B1	DCA
ATA-D2	3V/ATA-D2	41898	A610	906172C	3W'D-0N'2A	64	1013	MCC-4A1	DCA
GM-1	3X-1/102-1	37777	P297	KAP14AG	GM-1	77	1036	NA	DCA
AI-31E	3X-1/102-2	37777	P297	KAP14AG	AI-31E	77	1036	NA	DCA
GM-1	3X-2/102-1	37777	P297	KAP14AG	GM-1	77	1036	NA	DCA
A1-31E	3X-2/102-2	37777	P297	KAP14AG	AI-31E	77	1036	NA	DCA
GM-1	3X-3/102-1	37777	P297	KAP14AG	GM-1	77	1036	NA	DCA
AI-31E	3X-3/102-2	37777	P297	KAP14AG	AI-31E	77	1036	NA	DCA
AI-224A	42/46A	21846	G080	CR120B0D0422	AI-224A	72	1036	NA	ESNTL
AI-224A	42/46B	21846	G080	CR120B0D0422	AI-224A	72	1036	NA	ESNIL
AI-106A	42X/VA46A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
AI-224B	42 X/VA46B	21847	G080	CR120B0D0422	AI-224B	72	1036	NA	ESNTL
AI-106B	42X/VA46B	21847	G080	CR120B0D0422	AI-224B	72	1036	NA	ESNTL
AI-185	43A/AI-185	12517	E155	LOR	AI-185	57	1013	EE-8G-16	ESNTL
AI-185	43B/AI-185	12517	E155	LOR	AI-185	57	1013	EE-8G-16	ESNTL
AI-185	43C/AI-185	12517	E155	LOR	AI-185	57	1013	EE-8G-16	ESNTI.
AI-185	43D/AI-185	12517	E155	LOR	AI-185	57	1013	EE-8G-16	ESNTL
AI-179	43X/RC-2A	20260	E155	SERIES 24	AI-179	57	1013	EE-8G-17	DCA
AI-179	43X/RC-2B	22125	E155	SERIES 24	AI-179	57	1013	EE-8G-17	DCA
1A3	49-50-83/AC-10A-1	9958	G080	12IAC66K8A	1A3-09	56	1011	1A3-9	ESNTL
1A3	49-50-83/AC-10A-2	9958	G080	12IAC66K8A	1A3-09	56	1011	1A3-9	ESNTL
1A3	49-50-83/AC-10A-3	9958	G080	12IAC66K8A	1A3-0	56	1011	1A3-9	ESNTL
1A4	49-50-83/AC-10B-1	9986	G080	12IAC66K8A	1A4	56	1011	1A4-11	ESNTL
1A4	49-5G-83/AC-10B-2	9986	G080	12IAC66K8A	1A4	56	1011	1A4-11	ESNIL
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1A4	49-50-83/AC-10B-3	9986	G080	12IAC66K8A	1A4	56	1011	1A4-11	ESNTL
1A3	49-50-83/AC-10C-1	9960	G080	121AC66K8A	1A3-10	56	1011	1A3-10	ESNTL
1A3	49-50-83/AC-10C-2	9960	G080	121AC66K8A	1A3-10	56	1011	1A3-10	ESNTL
1A3	49-50-83/AC-10C-3	9960	G080	12IAC66K8A	1A3-10	56	1011	1A3-10	ESNTL
1A4	49-50-83/AC-10D-1	9988	G080	121AC66K8A	IA4	56	1011	1A4-12	ESNTL
1A4	49-50-83/AC-10D-2	9988	G080	12IAC66K8A	1A4	56	1011	1A4-12	ESNIL
IA4	49-50-83/AC-10D-3	9988	G086	121AC66K8A	1A4	56	1011	1A4-12	ESNTL
1A3	49-50-83/FW-6-1	9962	G080	12IAC66K8A	1A3-16	56	1011	1A3-16	ESNTL
IA3	49-50-83/FW-6-2	9962	G080	12IAC66K8A	1A3-16	56	1011	1A3-16	ESNTL
1A3	49-50-83/FW-6-3	9962	G080	12IAC66K8A	1A3-16	56	1011	1A3-16	ESNTL
AI-196A	5-1/VA46A	21847	G080	CR120B0D0422	AI-106A	77	1036	NA	ESNTL
AI-106B	5-1/VA46B	21847	G080	CR120B04022	AI-106B	77	1036	NA	ESNTL
AI-106A	5/VA46A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
AI-106B	5/VA46B	21847	G080	CR120B04022	AI-106B	77	1036	NA	ESNTL
AI-24	50-51/D1-1	9405	G080	12IAC51B17A	AI-24	77	1036	NA	DCA
AI-24	50-51/D1-2	9405	G080	12IAC51B17A	AI-24	77	1036	NA	DCA
AI-24	50-51/D1-3	9405	G080	12IAC51B17A	AI-24	77	1036	NA	DCA
AI-25	50-51/D2-1	9405	G080	12IAC51B17A	Al-25	77	1036	NA	DCA
AI-25	50-51/D2-2	9405	G080	12IAC51B17A	AI-25	77	1036	NA	DCA
AI-25	50-51/D2-3	9405	G080	12IAC51B17A	AI-25	77	1036	NA	DCA
AI-23	50-51/T1A-1-1	9407	G080	12IAC53B50A	A1-23	77	1036	NA	DCA
AI-23	50-51/T1A-1-2	9497	G080	12IAC53B50A	AI-23	77	1036	NA	DCA
AI-23	50-51/T1A-1-3	9407	G080	12IAC53B50A	AI-23	77	1036	NA	DCA
AI-26	50-51/T1A-2-1	9407	G080	12IAC53B50A	AI-26	77	1036	NA	DCA
AJ-26	50-51/T1A-2-2	9407	G080	12IAC53B50A	AI-26	77	1036	NA	DCA
AI-26	50-51/T1A-2-3	9407	G080	12IAC53B50A	AI-26	77	1036	NA	DCA
AI-24	50-51/T1A-3-1	9407	G080	12IAC53B2A	AI-24	77	1036	NA	DCA
AI-24	56-51/T1A-3-2	9407	G080	12IAC53B2A	AI-24	77	1036	NA	DCA
AI-24	50-51/T1A-3-3	9407	G080	12IAC53B2A	AI-24	77	1036	NA	DCA
AI-25	50-51/T1A-4-1	9407	G080	12IAC53B2A	AI-25	77	1036	NA	DCA
AI-25	50-51/T1A-4-2	9407	G080	12IAC53B2A	AI-25	77	1036	NA	DCA
AI-25	50-51/T1A-4-3	9407	G080	12IAC53B2A	AI-25	77	1036	NA	DCA
1A3	50-51/T1B-3A-1	9967	G080	12IAC66B16A	IA3-11	56	1011	1A3-11	ESNTL
1A3	50-51/T1B-3A-2	9967	G089	121AC66B16A	1A3-11	56	1011	1A3-11	ESNTL
1A3	50-51/T1B-3A-3	9967	G080	121AC66B16A	1A3-11	56	1011	1A3-11	ESNTL
1A3	50-51/T1B-3B-1	9968	G080	121AC66B16A	1A3-12	. 56	1011	1A3-12	ESNTL
1A3	50-51/T1B-3B-2	9968	G080	121AC66B16A	1A3-12	56	1011	1A3-12	ESNTL
1A3	50-51/T1B-3B-3	9968	G080	12IAC66B16A	1A3-12	56	1011	1A3-12	ESNIL
1A3	50-51/T1B-3C-1	9969	G080	121AC66B16A	1A3-13	56	1011	1A3-13	ESNTL
							10.11	174.7-13	LOWIL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1A3	50-51/T1B-3C-2	9969	G080	12IAC66B16A	1A3-13	56	1011	1A3-13	ESNTL
1A3	50-51/T1B-3C-3	9969	G080	12IAC66B16A	1A3-13	56	1011	1A3-13	ESNTL
1A4	50-51/T1B-4A-1	9996	G080	121AC66N16A	1A4	56	1011	IA4-10	ESNTL
1A4	50-51/T1B-4A-2	9996	G080	121AC66B16A	1A4	56	1011	1A4-10	ESNTL
IA4	50-51/T1B-4A-3	9996	G080	12IAC66B16A	1A4	56	1011	1A4-10	ESNTL
1A4	50-51/T1B-4B-1	9995	G080	12IAC66B16A	1A4	56	1011	1A4-9	ESNTL
1A4	50-51/T1B-4B-2	9995	G080	121AC66B16A	1A4	56	1011	1A4-9	ESNTL
1A4	50-51/T1B-4B-3	9995	G080	121AC66N16A	1A4	56	1011	1A4-9	ESNTL
1A4	50-51/T1B-4C-1	9994	G080	121AC66B16A	1A4	56	1011	1A4-8	ESNTL
1A4	50-51/T1B-4C-2	9994	G080	121AC66B16A	IA4	56	1011	1A4-8	ESNTL
IA4	50-51/T1B-4C-3	9994	G080	121AC66B16A	1A4	56	1011	1A4-8	ESNTL
AI-23	51/1A11-1	9400	G080	12IAC53A10IA	AI-23	77	1036	NA	DCA
AI-23	51/1A11-2	9400	G080	12IAC53A101A	AI-23	77	1036	NA	DCA
AI-23	51/1A11-3	9400	G080	12IAC53A101A	AI-23	77	1036	NA	DCA
AI-24	51/1A13-1	9401	G080	121AC53A101A	AI-24	77	1036	NA	ESNTL
AI-24	51/1A13-2	9401	G080	12IAC53A101A	AI-24	77	1036	NA	ESNTL
AI-24	51/1A13-3	9401	G080	12IAC53A101A	AI-24	77	1036	NA	ESNTL
AI-26	51/1A22-1	9402	G080	12IAC53A101A	A1-26	77	1036	NA	DCA
AI-26	51/1A22-2	9402	G080	121AC53A101A	AI-26	77	1036	NA	DCA
AI-26	51/1A22-3	9402	G080	12IAC53A101A	AI-26	77	1036	NA	DCA
AI-25	51/1A24-1	9403	G080	12IAC53A101A	AI-25	77	1036	NA	ESNTL
A1-25	51/1A24-2	9403	G080	12IAC53A101A	AI-25	77	1036	NA	ESNTL
A1-25	51/1A24-3	9403	G080	12IAC53A101A	A1-25	77	1036	NA	ESNTL
AI-23	51/1A31-1	9400	G080	12IAC53A101A	AI-23	77	1036	NA	DCA
AI-23	51/1A31-2	9400	G080	12IAC53A101A	A1-23	77	1036	NA	DCA
AI-23	51/1A31-3	9400	G080	12IAC53A101A	AI-23	77	1036	NA	DCA
AI-24	51/1A33-I	9401	G080	121AC53A-805A	AI-24	77	1036	NA	ESNTL
AI-24	51/1A33-2	9401	G080	12IAC53A-803A	AI-24	77	1036	NA	ESNTL
AI-24	51/1A33-3	9401	G080	12IAC53A-803A	AI-24	77	1036	NA	ESNTL
A!-26	51/1A42-1	9402	G080	12IAC53A101A	AI-26	77	1036	NA	DCA
Al-26	51/1A42-2	9402	G080	12IAC53A101A	AI-26	77	1036	NA	DCA
AI-26	51/1A42-3	9402	G080	12IAC53A101A	AI-26	77	1036	NA	DCA
AI-25	51/1A44-1	9403	G080	12IAC53A101A	AI-25	77	1036	NA	ESNTL
AI-25	51/1A44-2	9403	G080	12IAC53A10IA	AI-25	77	1036	NA	ESNTL
A1-25	51/1A44-3	9403	G080	12IAC53A101A	AI-25	77	1036	NA	ESNTL
1A3	52/TC/1A3-10	9960	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3	ESNTL
1A3	52/TC/1A3-11	9967	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3	ESNTL
1A3	52/TC/1A3-12	9968	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3	ESNTL
1A3	52/TC/1A3-13	9969	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3	ESNTL
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1A3	52/TC/1A3-16	9962	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3	ESNTL
1A3	52/TC/1A3-20	9953	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	EE-1F(D1)	ESNTL
1A3	52/TC/1A3-9	9958	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3	ESNTL
1A4	52/TC/1A4-1	9980	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	EE-IG(D2)	ESNTL
1A4	52/TC/1A4-10	9996	G080	AM-4.16-250-8H (52/TC)	IA4	56	1011	1A4	ESNTL
1A4	52/TC/1A4-11	9986	G080	AM-4 16-250-8H (52/TC)	1A4	56	1011	1A4	ESNTL
1A4	52/TC/1A4-12	9988	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	1A4	ESNTL
1A4	52/TC/1A4-8	9994	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	IA4	ESNTL
1A4	52/TC/1A4-9	9995	G080	AM-4.16-250-8H (52/TC)	IA4	56	1011	1A4	ESNTI.
1B3A	52/TC/1B3A	57310	G080	AK-2A-50S-2 (52/TC)	1B3A	56	1011	T1B-3A	ESNTL
1B3A	52/TC/1B3A-4	57294	G080	AK-2A-25-1 (52/TC)	1B3A	56	1011	1B3A	ESNIL
1B3A	52/TC/1B3A-7	12333	G080	AK-2A-25-1 (52/TC)	1B3A	56	1011	1B3A	ESNTL.
1B3B	52/TC/1B3B	57311	G080	2A-50S-2 (52/TC)	1B3B	56	1011	TIB-3B	ESNTL
1B3B	52/TC/1B3B-4	12332	G080	AK-2A-25-1 (52/TC)	1B3B	56	1011	IB3B	ESNTL
1B3B-4B	52/TC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52/TC)	1B3B-4B	56	1011	1B3B-4B	ESNTL
1B3C	52/TC/1B3C	57312	G080	AK-2A-50S-2 (52/TC)	IB3C	56	1011	T1B-3C	ESNTL
1B3C-4C	52/TC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52/TC)	1B3C-4C	56	1011	1B3C-4C	ESNTL
IB4A	52/TC/IB4A	57313	G080	AK-2A-50S-2 (52/TC)	1B4A	56	1011	TIB-4A	ESNTL
IB4A	52/TC/1B4A-1	57295	G080	AK-2A-25-1 (52/TC)	1B4A	56	1011	IB4A	ESNTL
IB4B	52/TC/1B4B	57314	G080	AK-2A-50S-2 (52/TC)	1B4B	56	1011	TIB-4B	ESNTL
1B4C	52/TC/1B4C	57315	G080	AK-2A-50S-2 (52/TC)	1B4C	56	1011	T1B-4C	ESNTL
IB4C	52/TC/1B4C-6	57291	G080	AK-2A-25-1 (52/TC)	1B4C	56	1011	1B4C	ESNTL
1B4C	52/TC/1B4C-8	57300	G080	AK-2A-25-1 (52/TC)	1B4C	56	1011	1B4C	ESNTL
IB3A	52/TC/BT-1B3A	57303	G080	AK-2A-50S-2 (52/TC)	1B3A	56	1011	IB3A	ESNTL
1B3C	52/TC/BT-1B3C	57309	G080	AK-2A-50S-2 (52/TC)	1B3C	56	1011	IB3C	ESNTL
1B4B	52/TC/BT-1B4B	57307	G080	AK-2A-50S-2 (52/TC)	1B4B	56	1011	1B4B	ESNTL
1B3A	52CC/1B3A	57310	G080	AK-2A-50S-2 (52CC)	1B3A	56	1011	TIB-3A	ESNTL
IB3A	52CC/1B3A-4	57294	G080	AK-2A-25-1 (52CC)	1B3A	56	1011	IB3A	ESNTL
IB3A	52CC/1B3A-7	12333	G080	AK-2A-25-1 (52CC)	1B3A	56	1011	1B3A	ESNTL
1B3B	52CC/1B3B	57311	G080	2A-50S-2 (52CC)	1B3B	56	1011	TIB-3B	ESNTL
1B3B	52CC/1B3B-4	12332	G080	AK-2A-25-1 (52CC)	1B3B	56	1011	1B3B	ESNTL
1B3B-4B	52CC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52CC)	1B3B-4B	56	1011	1B3B-4B	ESNTL
1B3C	52CC/1B3C	57312	G080	AK-2A-50S-2 (52CC)	1B3C	56	1011	T1B-3C	ESNTL
1B3C-4C	52CC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52CC)	1B3C-4C	56	1011	1B3C-4C	ESNTL
1B4A	52CC/1B4A	57313	G080	AK-2A-50S-2 (52CC)	1B4A	56	1011	TIB-4A	ESNTL
1B4A	52CC/1B4A-1	57295	G080	AK-2A-25-1 (52CC)	1B4A	56	1011	1B4A	ESNTL
1B4B	52CC/1B4B	57314	G080	AK-2A-50S-2 (52CC)	1B4B	56	1011	TIB-4B	ESNTL
1B4C	52CC/1B4C	57315	G080	AK-2A-50S-2 (52CC)	IB4C	56	1011	T1B-4C	ESNTL
1B4C	52CC/1B4C-6	57291	G080	AK-2A-25-1 (52CC)	IB4C	56	1011	1B4C	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1B4C	52CC/1B4C-8	57300	G080	AK-2A-25-1 (52CC)	1B4C	56	1011	1B4C	ESNTI.
1B3A	52CC/BT-1B3A	57303	G080	AK-2A-508-2 (52CC)	1B3A	56	1011	1B3A	ESNTL.
1B3C	52CC/BT-1B3C	57309	G080	AK-2A-50S-2 (52CC)	1B3C	56	1011	1B3C	ESNTL
1B4B	52CC/BT-1B4B	57307	G980	AK-2A-50S-2 (52CC)	1B4B	56	1011	1B4B	ESNTL
1A3	52X/1A3-10	9960	G080	AM-4.16-250-8H (5.2X)	1A3	56	1011	1A3	ESNTL
1A3	52X/1A3-11	9967	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3	ESNTL
1A3	52X/1A3-12	9968	G080	AM-4.16-250-8F (52X)	1A3	56	1011	1A3	ESNTL
1A3	52X/1A3-13	9969	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3	ESNTL
1A3	52X/1A3-16	9962	G080	AM-4.16-250-8H (52X)	1A3	56	1011	IA3	ESNTL.
1A3	52X/1A3-20	9953	G080	AM-4.16-250-8H (52X)	1A3	56	1011	EE-IF(D1)	ESNTL
1A3	52X/1A3-9	9958	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3	ESNTL
1A4	52X/1A4-1	9980	G080	AM-4.16-250-8H (52X)	1A4	56	1011	EE-1G(D2)	ESNTL
1A4	52X/1A4-10	9996	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1A4	ESNTL
1A4	52X/1A4-11	9986	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1A4	ESNTL
1A4	52X/1A4-12	9988	G080	AM-4.16-250-8H (52X)	IA4	56	1011	1A4	ESNTL
1A4	52X/1A4-8	9994	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1A4	ESNTL.
1A4	52X/1A4-9	9995	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1A4	ESNTL
1B3A	52X/1B3A	57310	G080	AK-2A-50S-2 (52X)	1B3A	56	1011	TIB-3A	ESNTL
1B3A	52X/1B3A-4	57294	G080	AK-2A-25-1 (52X)	IB3A	56	1011	1B3A	ESNTL
1B3A	52X/1B3A-7	12333	G080	AK-2A-25-1 (52X)	1B3A	56	1011	1B3A	ESNTL
1B3B	52X/1B3B	57311	G080	2A-50S-2 (52X)	1B3B	56	1071	TIB-3B	ESNTL
1B3B	52X/1B3B-4	12332	G080	AK-2A-25-1 (52X)	1B3B	56	1011	1B3B	ESNTL
1B3B-4B	52X/1B3B-4B-5	57297	G080	AK-2A-25-1 (52X)	1B3B-4B	56	1011	1B3B-4B	ESNTL
1B3C	52X/1B3C	57312	G080	AK-2A-50S-2 (52X)	1B3C	56	1011	TIB-3C	ESNTL
1B4A	52X/1B4A	57313	G080	AK-2A-50S-2 (52X)	IB4A	56	1011	TIB-4A	ESNTL
IB4A	52X/1B4A-1	57295	G080	AK-2A-25-1 (52X)	1B4A	56	1011	1B4A	ESNTL
1B4B	52X/1B4B	57314	G080	AK-2A-50S-2 (52X)	1B4B	56	1011	TIB-4B	ESNTL
1B4C	52X/1B4C	57315	G080	AK-2A-50S-2 (52X)	1B4C	56	1011	TIB-4C	ESNTL.
1B4C	52X/1B4C-6	57291	G080	AK-2A-25-1 (52X)	1B4C	56	1011	1B4C	ESNTL
1B4C	52X/1B4C-8	57300	G080	AK-2A-25-1 (52X)	1B4C	56	1011	1B4C	ESNTL
1B3C-4C	52X/1BC3-4C-4	57296	G080	AK-2A-25-1 (52X)	1B3C-4C	56	1011	1B3C-4C	ESNTL
1B3A	52X/BT-1B3A	57303	G080	AK-2A-50S-2 (52X)	1B3A	56	1011	1B3A	ESNTL
1B3C	52X/BT-1B3C	57309	G080	AK-2A-50S-2 (52X)	1B3C	56	1011	1B3C	ESNTL
1B4B	52X/BT-1B4B	57307	G080	AK-2A-50S-2 (52X)	1B4B	56	1011	1B4B	ESNTL
52XX-2/4	52XX-2/4	9406	G080	12HFA54E187H	9E'D-IN'IA	56	1011	NA	DCA
52XX-2/5	52XX-2/5	9406	G080	12HFA54E187H	9E'D-IN'IA	56	1011	NA	DCA
IB3A	52XX/1B3A	57310	G080	CR120A26241	1B3A	56	1011	EE-8F	ESNTL
1B3B	52XX/1B3B	57311	G080	CR120AS5041	1B3B	56	1011	EE-8F	ESNTL
1B3C	52XX/1B3C	57312	G080	CR120AS5041	IB3C	56	1011	EE-8F	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1B4A	52XX/1B4A	57313	G080	CR120AS5041	1B4A	56	1011	EE-8G	ESNTL
1B4B	52XX/1B4B	57314	G080	CR120AS5041	IB4B	56	1011	EE-8G	ESNTL
1B4C	52XX/1B4C	57315	G080	CR120AS5041	1B4C	56	1011	EE-8G	ESNTL
1B3B	52XX/AC-3A	12332	G080	CR120AS5041	1B3B	56	1011	EE-8F	ESNTL
1B4A	52XX/AC-3B	57295	G080	CR120AS5041	1B4A	56	1011	EE-8G	ESNTL
1B3C-4C	52XX/AC-3C	57296	G080	CR120AS5041	1B3C-4C	56	1011	EE-8F	ESNTL
1B3B	52XX/BT-1B3B	57306	G080	CR120AS5041	1B3B	56	1011	EE-8F	ESNTL
1B3C	52XX/BT-1B3C	57309	G080	CR120AS5041	1B3C	56	1011	EE-8F	ESNTL
1B4B	52XX/BT-1B4B	57307	G080	CR120AS5041	IB4B	56	1011	EE-8G	ESNTL
1B4C	52XX/BT-1B4C	12255	G080	CR120AS5041	1B4C	56	1011	EE-8G	ESNTL
1B3A	52XX/VA-3A	12333	G080	CR120AS5041	IB3A	56	1011	EE-8F	ESNTL
1A3	52Y/1A3-11	9967	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3	ESNTL
1A3	52Y/1A3-12	9968	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3	ESNTL
1A3	52Y/1A3-13	9969	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3	ESNTL
1A3	52Y/1A3-16	9962	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3	ESNTL
1A3	52V/1 43-20	9953	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	EE-1F(D1)	ESNTL
1A3	52Y/1A3-9	9958	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3	ESNTL
1A4	52Y/1A4-1	9980	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	EE-1G(D2)	ESNTL
1A4	52Y/1A4-10	9996	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	1A4	ESNTL.
1A4	52Y/1A4-12	9988	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	1A4	ESNTL
1A4	52Y/1A4-8	9994	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	1A4	ESNTL
IA4	52Y/1A4-9	9995	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	1A4	ESNTL
1B3A	52Y/1B3A	57310	G089	AK-2A-50S-2 (52Y)	IB3A	56	1011	TIB-3A	ESNTL
1B3A	52Y/1B3A-4	57294	G080	AK-2A-25-1 (52Y)	1B3A	56	1011	IB3A	ESNTL
1B3A	52Y/1B3A-7	12333	G080	AK-2A-25-1 (52Y)	1B3A	56	1011	1B3A	ESNTL
1B3B	52Y/1B3B	57311	G080	2A-50S-2 (52Y)	1B3B	56	1011	T1B-3B	ESNTL
1B3B	52Y/1B3B-4	12332	G080	AK-2A-25-1 (52Y)	1B3B	56	1011	1B3B	ESNTL
1B3B-4B	52Y/1B3B-4B-5	57297	G080	AK-2A-25-1 (52Y)	1B3B-4B	56	1011	1B3B-4B	ESNTL
1B3C	52Y/1B3C	57312	G080	AK-2A-50S-2 (52Y)	1B3C	56	1011	T1B-3C	ESNTL
1B4A	52Y/1B4A	57313	G080	AK-2A-50S-2 (52Y)	1B4A	56	1011	TiB-4A	ESNTL
1B4A	52Y/1B4A-1	57295	G080	AK-2A-25-1 (52Y)	1B4A	56	1011	1B4A	ESNTL
1B4B	52Y/1B4B	57314	G080	AK-2A-50S-2 (52Y)	1B4B	56	1011	TIB-4B	ESNTL
1B4C	52Y/1B4C	57315	G080	AK-2A-50S-2 (52Y)	1B4C	56	1011	T1B-4C	ESNTL
1B4C	52Y/1B4C-6	57291	G080	AK-2A-25-1 (52Y)	1B4C	56	1011	1B4C	ESNTL.
1B4C	52Y/1B4C-8	57300	G080	AK-2A-25-1 (52Y)	IB4C	56	1011	1B4C	ESNTL
IA4	52Y/AC-10B	9986	G080	AM-4.16-250-8H (52Y)	1A4	. 56	1011	1A4	ESNTL
1A3	52Y/AC-10C	9960	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3	ESNTL
1B3C-4C	52Y/AC-3C	57296	G080	AK-2A-25-1 (52Y)	IB3C-4C	56	1011	1B3C-4C	ESNTL
1B3A	52Y/BT-1B3A	57303	G080	AK-2A-50S-2 (52Y)	1B3A	56	1011	1B3A	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1B3C	52Y/BT-1B3C	57309	G080	AK-2A-50S-2 (52Y)	1B3C	56	1011	1B3C	ESNTL
1B4B	52Y/BT-1B4B	57307	G080	AK-2A-50S-2 (52Y)	1B4B	56	1011	1B4B	ESNTL
AI-30A(S1-1)	62-1-1/AC-10A	9801	A109	2452PC	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/AC-10C	9801	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/AC-3A	9802	A109	2452PC	AI-30A(S1-I)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/AC-3C	9802	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/CH-1A	9802	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/CH-1C	9802	A109	2452PD	Al-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/FW-6	9801	A109	2452PC	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-1)	62-1-1/VA-3A	9802	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
1A3	62-1-1X/AC-10A	9801	G080	12HFA151A2F	1A3-09	56	1011	AI-41A-06	ESNTL
1A3	62-1-1X/AC-10C	9801	G080	12HFA151A2F	1A3-10	56	1011	AI-41A-06	ESNTL
AI-108A	62-1-1X/AC-3A	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06	ESNTL
AI-108A	62-1-1X/AC-3C	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06	ESNTL
AI-108A	62-1-1X/CH-1A	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06	ESNTL
AI-108A	62-1-1X/CH-1C	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06	ESNTL
1A3	62-1-1X/FW-6	9801	G080	12HFA151A2F	1A3-16	56	1011	Al-41A-06	ESNTL
AI-108A	62-1-1X/VA-3A	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06	ESNTL
AI-30A(S1-2)	62-1-2/AC-10A	9801	A109	DPCXX012XDAAXAA	Al-30A(S1-2)	77	1036	AI-40B-19	ESNTL
AI-30A(S1-2)	62-1-2/AC-10C	9801	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19	ESNTL
AI-30A(S1-2)	62-1-2/AC-3A	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-30A-02-05	ESNTL
AI-30A(S1-2)	62-1-2/AC-3C	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19	ESNTL.
AI-30A(S1-2)	62-1-2/CH-1A	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19	ESNTL
AI-30A(S1-2)	62-1-2/CH-1C	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19	ESNTL
AI-30A(S1-2)	62-1-2/FW-6	9801	A109	DPCXX012XDAAXAA	Al-30A(S1-2)	77	1036	AI-40B-19	ESNTL
AI-30A(S1-2)	62-1-2/VA-3A	9803	A109	DPCXX012XDAAXAA	A1-30A(S1-2)	77	1036	AI-30B-02-04	ESNTL
1A3	62-1-2X/AC-10A	9801	G080	12HFA151A9F	1A3-09	56	1011	AI-40B-19	ESNTL
1A3	62-1-2X/AC-10C	9801	G080	12HFA151A9F	1A3-10	56	1011	AI-40B-19	ESNTL
AI-108A	62-1-2X/AC-3A	9803	G080	12HFA151A9F	Al-108A	56	1011	AI-40B-19	ESNTL
AI-108A	62-1-2X/AC-3C	9803	G680	12HFA151A9F	Al-108A	56	1011	AI-40B-19	ESNTL
AI-108A	62-1-2X/CH-1A	9803	G080	12HFA151A9F	AI-108A	56	1011	AI-40B-19	ESNTL
AI-108A	62-1-2X/CH-1C	9803	G080	12HFA151A9F	AI-108A	56	1011	AI-40B-19	ESNTL
1A3	62-1-2X/FW-6	9801	G080	12HFA151A9F	1A3-16	56	1011	AI-40B-19	ESNTL.
AI-108A	62-1-2X/VA-3A	9803	G080	12HFA151A9F	AI-108A	56	1011	AI-40B-19	ESNTL
AI-207	62-1/921/922	22613	A109	7032PH	AI-207	TURB	1039	NA	DCA
1A3	62-1/AC-10A	9958	A109	2412PB	1A3	. 56	1011	EE-8F	ESNTI.
1A4	62-1/AC-10B	9986	A109	2412PB	1A4	56	1011	EE-8G	ESNTL
1A3	62-1/AC-10C	9960	A109	2412PB	1A3	56	1011	EE-8F	ESNTL
1A4	62-1/AC-10D	9988	A109	2412PB	1A4	56	1011	EE-8G	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
1B3B	62-1/AC-3A	12332	A109	2412PA	1B3B	56	1011	EE-8F	ESNTL
IB4A	62-1/AC-3B	57295	A109	2412PA	1B4A	56	1011	EE-8G	ESNTL
1B3C	62-1/AC-3C	57296	A109	2412PC	1B3C	56	1011	EE-8F	ESNTL
AI-30B(S2-1)	62-2-1/AC-10B	9811	A109	2452PC	AI-30B(S2-1)	77	1036	AI-41B-06	ESNTL
AI-30B(S2-1)	62-2-1/AC-10D	9811	A109	2452PD	AI-30B(S2-1)	77	1036	AI-41B-06	ESNTL
AI-30B(S2-1)	62-2-1/AC-3B	9812	A109	2452PC	AI-30B(S2-1)	77	1036	Al-41B-06	ESNTL
A1-30B(S2-1)	62-2-1/AC-3C	9812	A109	2452PD	AI-30B(S2-1)	77	1036	Al-41P-06	ESNTL
AI-30B(S2-1)	62-2-1/CH-1B	9812	A109	2452PD	AI-30B(S2-1)	77	1036	AI-41B-65	ESNTL
AI-30B(S2-1)	62-2-1/CH-1C	9812	A109	2452PD	AI-30B(S2-1)	77	1036	AI-41B-06	SSMTL
AI-30B(S2-1)	62-2-1/FW-10	9811	A109	2452PD	AI-30B(S2-1)	77	1036	AI-41B-06	DCA
A1-30B(S2-1)	62-2-1/VA-3B	9812	A109	2452PD	AI-30B(S2-1)	77	1036	AI-41B-06	ESNTL
1A4	62-2-1X/AC-10B	9811	G080	12HFA151A2F	1A4	56	1011	Al-41B-06	ESNTL
1A4	62-2-1X/AC-10D	9811	G080	12HFA151A2F	1A4	56	1011	AI-41B-06	ESNTL
AI-108B	62-2-1X/AC-3B	9812	G080	12HFA151A2F	AI-108B	56	1011	AI-41B-06	ESNTL
AI-108P	62-2-1X/AC-3C	9812	G080	12HFA151A2F	AI-108B	56	1011	AI-41B-06	ESNTL
AI-108B	62-2-1X/CH-1B	9812	G080	12HFA151A2F	AI-108B	56	1011	AI-41B-06	ESNTL
AI-108B	62-2-1X/CH-1C	9812	G080	12HFA151A2F	AI-108B	56	1011	Al-41B-06	ESNTL
AI-108B	62-2-1X/VA-3B	9812	G080	12HFA151A2F	AI-108B	56	1011	AI-41B-06	ESNTL
AI-30B(S2-2)	62-2-2/AC-10B	9811	A109	DPCXX012XDAAXAA	A1-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2/AC-10D	9811	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2/AC-3B	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2/AC-3C	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2/CH-1B	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2/CH-1C	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2/VA-3B	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	77	1036	AI-40A-21	ESNTL
AI-30B(S2-2)	62-2-2C/FW-10	9811	P297	KH-4778	AI-30B(S2-2)	77	1036	AI-40B-21	DCA
1A4	62-2-2X/AC-10B	9811	G080	12HFA151A9F	1A4	56	1011	EE-8G	ESNTL
1A4	62-2-2X/AC-10D	9811	G080	12HFA151A9F	1A4	56	1011	EE-8G	ESNTL
AI-108B	62-2-2X/AC-3B	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21	ESNTL
AI-108B	62-2-2X/AC-3C	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21	ESNTL
AI-108B	62-2-2X/CH-1B	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21	ESNTL
AI-108B	62-2-2X/CH-1C	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21	ESNTL
AI-66B	62-2-2X/FW-10	21423	G080	12HGA111J2	AI-66B	77	1036	Al-41B-04	DCA
Al-108B	62-2-2X/VA-3B	9813	G080	12HFA151A9F	AI-168B	56	1011	AI-40A-21	ESNTL
AI-109A	62-A/LS	12280	A109	E-7014PD	AI-109A	56	1011	AI-41A-06	DCA
AI-109B	62-B/LS	43388	A109	2414PD	AI-109B	56	1011	AI-41B-06	ESNTL
AC-DC-2	62/400	41269	G080	CR2820B424AA41	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	62/401	41269	G080	CR2820B424AA41	AC-DC-2	77	1036	Al-41A-10	DCA
AC-DC-2	62/402	41269	G080	CR2820B424AA41	AC-DC-2	77	1030	W-41/4-10	IA.A

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AC-DC-2	62/403	41269	G080	CR2820B424AA41	AC-DC-2	77	1036	AI-41A-12	DCA
AI-207	62/921	22613	A109	7012PF	AI-207	TURB	1039	NA	DCA
AI-207	62/922	22613	A109	7012PF	AI-207	TURB	1039	NA	DCA
AI-43A	62A/CIAS	40247	A109	E7022PH001	AI-43A	77	1036	Ai 31A-08	DCA
AC-DC-2	62X/PCS-224	57294	A109	2412PE	AC-DC-2	77	1036	NA	ESNTL
AC-DC-2	62X/PCS-227	57291	A109	2412PE	AC-DC-2	77	1036	NA	ESNTL
AC-DC-2	62X/PCS-230	57297	A109	2412PE	AC-DC-2	77	1036	NA	ESNTL
AI-66A	63/1107B	21422	G080	CR120BD05041	AI-66A	77	1036	NA	DCA
AI-66B	63/1108B	21421	G080	CR120BD05041	AI-66B	77	1036	NA	DCA
TIA-3	63FP/T1A-3	9407	G080	TYPE J	T1A-3	OTDR	1008	NA	DCA
TIA-4	63FP/T1A-4	9407	G080	TYPE J	TIA-4	OTDR	1008	NA	DCA
A1-24	63FPX-1/T1A-3	9407	P297	KAPIIDG	AI-24	77	1036	EE-8F	DCA
AI-25	63FPX-1/T1A-4	9407	G080	12HMA11B6	AI-25	77	1036	EE-8G	DCA
T1A-3	63FPX/TIA-3	9407	G080	CR2790E100	T1A-3	OTDR	1008	NA	DCA
T1A-4	63FPX/T1A-4	9407	G080	CR2970E100	TIA-4	OTDR	1008	NA	DCA
AC-DC-2	63X-1/LC-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20	ESNTL
AC-DC-2	63X-1/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20	ESNTL
AC-DC-2	63X-1/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	77	1036	AI-40A-20	ESNTL
AC-DC-2	63X-2/LC-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	Al-40A-20	ESNTL.
AC-DC-2	63X/102-1	37777	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	63X/102-2	37777	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	63X/LC-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20	DCA
AC-DC-2	63X/LCA-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	Al-40A-20	ESNTL.
AC-DC-2	63X/LCS-218	9543	G080	12HFA151A9H	AC-DC-2	77	1036	AI-42B-09	DCA
AC-DC-2	63X/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20	DCA
AC-DC-2	63X/LIC-219	6153	G080	12HFA151A9H	AC-DC-2	77	1036	AI-42A-07	DCA
AC-DC-2	63X/PCS-226	57294	G080	CR120A26241	AC-DC-2	77	1036	NA .	ESNTL
AC-DC-2	63X/PCS-229	57291	G080	CR120A26241	AC-DC-2	77 .	1036	NA	ESNTL
AC-DC-2	63X/PCS-232	57297	G080	CR120A26241	AC-DC-2	77	1036	NA	ESNTL
AC-DC-2	63X/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	77	1036	AI-40A-20	DCA
AC-DC-2	63XA/LC-101-1	9513	G080	12HFA151A9H	AC-DC-2	77	1036	A1-46A-20	ESNTL.
AC-DC-2	63XA/LC-101-2	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20	ESNTL
A1-24	67/D1	9405	G080	12GGP53B1A	AI-24	77	1036	NA	DCA
AI-25	67/D2	9405	G080	12GGP53B1A	AI-25	77	1036	NA	DCA
AI-4C	74/150	41445	P297	KAP14AG	Al-4C	77	1036	NA	DCA
GM-1	74/151	41445	P297	KAP14AG	GM-1	77	1036	NA	DCA
MCC-4A1	74/HCV-1041C	21357	S440	219BBXP	MCC-4A1-C04	57	1013	MCC-4A1	DCA
MCC-4C1	74/HCV-1042C	21357	\$440	219BBXP	MCC-4C1-F03	57	1013	MCC-4C1	DCA
MCC-4C1	74/HCV-1384	54553	S440	219BBXP	MCC-4C1-E03	57	1013	MCC-4C1	DCA
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
MCC-3A1	74/HCV-1385	41890	\$440	219BBXP	MCC-3A1-E04	57	1013	MCC-3A1	DCA
MCC-4C1	74/HCV-1386	41890	\$440	219BBXP	MCC-4C1-E04	57	1013	MCC-4C1	DCA
MCC-4A2	74/HCV-258	41231	S440	219BBXP	MCC-4A2-E02	26	1007	MCC-4A2	DCA
MCC-3C2	74/HCV-265	41231	S440	219BBXP	MCC-3C2-C01	26	1007	MCC-3C2	DCA
MCC-3A2	74/LCV-218-2	41465	\$440	219BBXP	MCC-3A2-E04	4	989	MCC-3A2	DCA
MCC-3A2	74/LCV-218-3	1258	S440	219BBXP	MCC-3A2-E03	4	989	MCC-3A2	ESNTL
AI-43A	742A-2	41564	G080	12HFA151A2F	AI-43A	77	1036	AI-41A-08	DCA
Al-43A	742A-3	41564	G080	12HFA151A2F	AI-43A	77	1036	AI-41A-08	ESNTL
Al-43A	742A-4	41564	G080	12HFA151A2F	AI-43A	77	1036	AI-41A-08	ESNTL
AI-43A	742A-6	41564	G080	12HFA151A2F	Al-43A	77	1036	AI-41A-08	ESNTL
AI-43A	742A-9	41564	G080	12HFA151A2F	AI-43A	77	1036	AI-41A-08	ESNTL
AI-43B	742B-2	41567	G980	12HFA151A2F	AI-43B	77	1036	AI-41B-08	DCA
AI-43B	742B-3	41567	G080	12HFA151A2F	AI-43B	77	1036	AI-41B-08	ESNTL
AI-43B	742B-4	41567	G080	12HFA151A2F	AI-43B	77	1036	AI-41B-08	ESNTL
AI-43B	742B-6	41567	G080	12HFA151A2F	AI-43B	77	1036	AI-41B-08	ESNTL
AI-30A(S1-1)	86-1/S1-I	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-2)	86-1/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	77	1036	AI-41B-13	ESNTL
AI-30B(S2-1)	86-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	77	1036	Al-41B-06	ESNTL
AI-30B(S2-2)	86-1/S2-2	9815	G080	12HEA61C241 or X2	AI-30B(S2-2)	77	1036	AI-41A-13	ESNTL
AI-24	86-1/T1A-3	9407	G080	12HEA61C239 or X2	AI-24	77	1036	AI-41A-16	DCA
AI-25	86-1/T1A-4	9407	G080	12HEA61C239X2	AI-25	77	1036	AI-41A-16	DCA
AI-30A(S1-1)	86-2/\$1-1	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	77	1036	AI-41A-06	ESNTL
AI-30A(S1-2)	86-2/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	77	1036	AI-41B-13	ESNTL
AI-30B(S2-1)	86-2/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	77	1036	AI-41B-06	ESNTL
AI-30B(\$2-2)	86-2/\$2-2	9815	G080	12HEA61C241 or X2	AI-30B(S2-2)	77	1036	AI-41A-13	ESNTL
AI-22	86-2/SVG1	9406	G080	12HEA61C239 or X2	AI-22	77	1036	EE-8G	DCA
AI-24	86-2/T1A-3	9407	G080	12HEA61C239 or X2	AI-24	77	1036	EE-8F	DCA
AI-25	86-2/T1A-4	9407	G080	12HEA61C239 or X2	AI-25	77	1036	EE-	DCA
AI-25	86-2/T1A-4	9407	G080	12HEA61C239 or X2	AI-25	77	1036	EE-8G	DCA
AI-21	86-3/G1	9407	G080	12HEA61C239 or X2	AI-21	77	1036	AI-41A-16	DCA
AI-21	86-3/GT1	9407	G080	12HEA61C239 or X2	AI-21	77	1036	EE-8G	DCA
AI-22	86/161	9410	G080	12HEA61C	AI-22	77	1036	EE-8G	ESNTL
AI-23	86/1A11	9400	G080	12HEA61C238 or X2	AI-23	77	1036	EE-8F	DCA
AI-24	86/1A13	9401	G080	12HEA61C238 or X2	A1-24	77	1036	EE-8F	ESNTL
AI-26	86/1A22	9402	G080	12HEA61C238 or X2	AI-26	77	1036	EE-8G	DCA
AI-25	86/1A24	9403	G080	12HEA61C238 or X2	A1-25	77	1036	EE-8G	ESNTL
AI-24	86/1A3-TFB	9406	G080	12HEA61C239 or X2	AI-24	77	1036	AI-41A-16	ESNTL
AI-23	86/1A31	9490	G080	12HEA61C238 or X2	AI-23	77	1036	EE-8F	DCA
AI-24	86/1A33	9401	G080	12HEA61C238 or X2	AI-24	77	1036	EE-8F	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-25	86/1A4-TFB	9406	G080	12HEA61C239 or X2	AI-25	77	1036	AI-41B-16	ESNTL
AI-26	86/1A42	9402	G080	12HEA61C238 or X2	Al-26	77	1036	EE-8G	DCA
AI-25	86/1A44	9403	G080	12HEA61C238 or X2	AI-25	77	1036	EE-8G	ESNTL
AI-43A	86/AI-43A	41564	Ge80	12HEA61C239 or X2	AI-43A	77	1036	AI-41A-08	ESNTL
AI-43B	86/ 1-43B	41567	G080	12HEA61C239 or X2	Al-43B	77	1036	AI-41B-08	ESNTL.
A1-24	86/D1	9405	G080	12HEA61C239 or X2	A1-24	77	1036	AI-41A-16	ESNTL
AI-25	86/D2	9405	G080	12HEA61C239 or X2	AI-25	77	1036	AI-41B-16	ESNTL
AI-30A(D1)	86A-OR/IAD1	9808	G080	12HEA61C238 or X2	AI-30A(D1)	77	1036	AI-41A-06	ESNTL
AI-30B(D2)	86A-OR/1AD2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	77	1036	AI-41A-13	ESNTL
AI-30A(ESF)	86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
Al-30A(ESF)	86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	77	1036	Al-41A-06	ESNTL
AI-30A(ESF)	86A/CRHS	9806	G080	12HEA61C244 or X2	Al-30A(ESF)	77	1036	AI-41A-06	ESNTL
AI-30A(ESF)	86A/CSAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
AI-30A(D1)	86A/D1	9808	G080	12HEA61C238 or X2	AI-30A(D1)	77	1036	AI-41A-06	ESNTL
AI-30B(D2)	86A/D2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	77	1036	AI-41A-13	ESNTL
AI-30A(ESF)	86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
AI-30A(ESF)	86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
CB-4 AUX	86A/SGIS	24062	G080	12HFA151A2H	CB-4 AUX	77	1036	Al-41A-03	ESNTL
CB-4	86A/SGLS	9800	G080	12HEA61C239 or X2	CB-4	77	1036	AI-41A-03	ESNTL
AI-30A(ESF)	86A/SIAS	9806	G080	12HEA61C239 or X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
AI-30A(ESF)	86A/VIAS	9806	G080	12HEA61C239X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
AI-30B(ESF)	86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	7;	1036	AI-41A-13	ESNTL.
AI-30B(ES!2)	86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	77	1036	AI-41A-13	ESNTL
AI-30B(ESF)	86A1/CRHS	9817	G080	12HEA61C239 or X2	AI-30B(ESF)	77	1036	AI-41A-13	ESNTL
AI-30B(ESF)	86A1/CSAS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	77	1036	AI-41A-13	ESNTL
AI-30B(ESF)	86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	77	1036	Al-41A-13	ESNTL
AI-30B(ESF)	86A1/SIAS	9817	G080	12HEA61C239 or X2	AI-30B(ESF)	77	1036	AI-41A-13	ESNTL
AI-30B(ESF)	86A1/VIAS	9817	G080	12HEA61C239X2	AI-30B(ESF)	77	1036	AI-41A-13	ESNTL
AI-30B(ESF)	86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	77	1036	AI-41A-13	ESNTL
AI-30A(ESF)	86AX/OPLS	9806	P297	KAP14DG	AI-30A(ESF)	77	1036	AI-41A-06	DCA
CB-4 AUX	86AX/SGIS	24062	G080	12HFA151A2H	CB-4 AUX	77	1036	AI-41A-03	ESNTL.
AI-30A(ESF)	86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
AI-109A	86AX2/OPLS	12280	G080	12HFA151A2H	AI-109A	56	1011	AI-41A-06	DCA
AI-30A(D1)	86B-OR/1AD1	9808	G080	12HEA61C238 or X2	AJ-30A(D1)	77	1036	AI-41B-13	ESNTI.
AI-30B(D2)	86B-OR/1AD2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	77	1036	AI-41B-06	ESNTL
AI-30B(ESF)	86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	77	1036	AI-41B-06	ESNTL
AI-30B(ESF)	86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	77	1036	AI-41B-06	ESNTL
AI-30B(ESF)	86B/CRHS	9816	G080	12HEA61C244X2	AI-30B(ESF)	77	1036	Al-41B-06	ESNTL
AI-30B(ESF)	86B/CSAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	77	1036	AI-41B-06	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-30A(D1)	86E/D1	9808	G080	12HEA61C238 or X2	AI-30A(D1)	77	1036	AI-41B-13	ESNTL
Al-30B(D2)	86B/D2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	77	1036	AI-41B-06	ESNTL
Al-30B(ESF)	86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	77	1036	AI-41B-06	ESNTL.
AI-30B(ESF)	86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	77	1036	AI-41B-06	ESNTL
CB-4 AUX	86B/SGIS	24061	G080	12HFA151A2H	CB-4 AUX	77	1036	AI-41B-03	ESNTL
CB-4	86B/SGLS	9800	G080	12HEA61C239 or X2	CB-4	77	1036	AI-41B-03	ESNTL
Al-30B(ESF)	86B/SIAS	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	77	1036	AI-41B-06	ESNTL
AI-30B(ESF)	86B/VIAS	9816	G080	12HEA61C239 or X2	Al-30B(ESF)	77	1036	AI-41B-06	ESNTL
AI-30A(ESF)	86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	77	1036	Al-41B-13	ESNTL
AI-30A(ESF)	86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30A(ESF)	86B1/CRHS	9807	G080	12HEA61C244X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30A(ESF)	86B1/CSAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30A(ESF)	86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30A(ESF)	86B1/SIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30A(ESF)	86B1/VIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30A(ESF)	86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	77	1036	AI-41B-13	ESNTL
AI-30B(ESF)	86BX/OPLS	9816	P297	KAP14DG	AI-30B(ESF)	77	1036	Al-41B-06	DCA
AI-30B(ESF)	86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30d(ESF)	77	1036	AI-41B-06	ESNTL
AI-109B	86BX2/OPLS	43388	G080	12HFA151A2H	AI-109B	56	1011	AI-41B-06	DCA
AI-43A	86X-A-B1/CPHS	24060	G080	12HFA151A2F	AI-43A	77	1036	NA	ESNTL
AI-43B	86X-B-A1/CPHS	5976	G080	12HFA151A2F	AI-43B	77	1036	AI-41B-08	ESNTL
AI-22	87/161-1	9410	G080	12IFD51A1A	A1-22	77	1036	NA	DCA
AI-22	87/161-2	9410	G080	12IFD51A1A	AI-22	77	1036	NA	DCA
AI-22	87/161-3	9410	G080	12IFD51A1A	AI-22	77	1036	NA	DCA
A1-24	87/1AD1-1	9405	G080	12CFD12B1A	AI-24	77	1036	NA	ESNTL
AI-24	87/1AD1-2	9405	G080	12CFD12B1A	AI-24	77	1036	NA	ESNTL
AI-24	87/1AD1-3	9405	G080	12CFD12B1A	AI-24	77	1036	NA	ESNTL
Al-25	87/1AD2-1	9405	G080	12CFD12B1A	AI-25	77	1036	NA	ESNTL
AI-25	87/1AD2-2	9405	G080	12CFD12B1A	AI-25	77	1036	NA	ESNTL
AI-25	87/1AD2-3	9405	G080	12CFD12B1A	A1-25	77	1036	NA	ESNTL
AI-21	87/GT1-1	9407	G080	12BDD16B11A	AI-21	77	1036	NA	DCA
AI-21	87/GT1-2	9407	G080	12BDD16B11A	AI-21	77	1036	NA	DCA
AI-21	87/GT1-3	9407	G080	12BDD16B11A	AI-21	77	1036	NA	DCA
AI-23	87/T1A-1-1	9407	G080	12BDD15B11A	AI-23	77	1036	NA	DCA
AI-23	87/T1A-1-2	9407	G080	12BDD15B11A	AI-23	77	1036	NA	DCA
AI-23	87/T1A-1-3	9407	G080	12BDD15B11A	AI-23	. 77	1036	NA	DCA
AI-26	87/T1A-2-1	9407	G080	12BDD15B11A	AI-26	77	1036	NA	DCA
AI-26	87/T1A-2-2	9407	G080	12BDD15B11A	AI-26	77	1036	NA	DCA
AI-26	87/T1A-2-3	9407	G080	12BDD15B11A	AI-26	77	1036	NA	DCA
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-24	87/T1A-3-1	9407	G080	12BDD15B11A	AI-24	77	1036	NA	DCA
A1-24	87/T1A-3-2	9407	G080	12BDD15B11A	Al-24	77	1036	NA	DCA
A1-24	87/T1A-3-3	9407	G080	12BDD15B11A	AI-24	77	1036	NA	DCA
AI-25	87/T1A-4-1	9407	G080	12BDD15B11A	AI-25	77	1036	NA	DCA
AI-25	87/T1A-4-2	9407	G080	12BDD15B11A	AI-25	77	1036	NA	DCA
AI-25	87/T1A-4-3	9407	G080	12BDD15B11A	AI-25	77	1036	NA	DCA
89XX-3/DST	89XX-3/DST1	9406	G080	12HFA54E187H	0WTD1-0N1	TURB	1016	EE-8F	DCA
A1-66B	94-1/1045	21423	G080	12HFA151A2H	AI-66B	77	1036	AI-41B-04	DCA
AC-DC-2	94-1/400	41269	G080	CR120AD04041AA	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	94-1/401	41269	G080	CR120AD04041AA	AC-DC-2	27	1036	AI-41A-12	DCA
AC-DC-2	94-1/402	41269	G080	CR120AD04041AA	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	94-1/403	41269	G080	CR120AD04041AA	AC-DC-2	77	1036	AI-41A-12	DCA
AI-106A	94-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	77	1036	NA	ESNTL
AI-106B	94-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	77	1036	NA	ESNTL
AI-106A	94-1/6288A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
AI-106B	94-1/6288B	21847	G080	CR120B04022	AI-106B	77	1036	NA	ESNTL
AC-DC-1	94-1/PPLS-A	9831	G080	12HFA151A9H	AC-DC-1	77	1036	AI-40A-01	DCA
AC-DC-1	94-1/PPLS-B	9831	G080	12HFA51A49H	AC-DC-1	77	1036	AI-40D-01	DCA
AI-33A	94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	77	1036	AI-40A-15	ESNTL
AI-33A	94-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	77	1036	AI-40A-15	ESNTL
AI-33A	94-1/RM-054A	9799	G080	12HFA151A9H	AI-33A	77	1036	AI-40A-13	DCA
AI-33A	94-1/RM-054B	9799	G086	12HFA151A9H	AI-33A	77	1036	AI-40B-15	DCA
AI-33A	94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	77	1036	NA	ESNTL
A1-106A	94-1/VA46A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
AI-106B	94-1/VA46B	21847	G080	CR120B04022	Al-106B	77	1036	NA	ESNTL
AI-54B	94-17/FD	9828	G080	CR120A2*/941	AI-54B	77	1036	AI-41A-09	ESNTL
AI-54B	94-17X/FD	39723	P297	KUP5D15	AI-54B	77	1036	NA	ESNTL
AI-54B	94-18/FD	9828	G080	CR120A26941	AI-54B	77	1036	AI-41A-09	ESNTL
AI-54B	94-18X/FD	39723	P297	KUP5D	AI-54B	77	1036	NA	ESNTL
AI-66B	94-2/1045	21423	G080	12HFA151A2H	AI-66B	77	1036	AI-41B-04	DCA
AC-DC-2	94-2/400	41269	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	94-2/401	41269	G080	CR120AD04041AA	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	94-2/402	41269	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	94-2/403	41269	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	DCA
AI-106A	94-2/6288A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
Al-106B	94-2/6288B	21847	G080	CR120B04022	AI-106B	. 77	1036	NA	ESNTL
AI-106A	94-2/VA46A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
AI-106B	94-2/VA46B	21847	G080	CR120B04022	AI-106B	77	1036	NA	ESNTI.
AI-54B	94-23/FD	9828	G080	CR120A26941	AI-54B	77	1036	AI-41A-09	DCA

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-54B	94-23X/FD	39723	P297	KUP5D15	AI-54B	77	1036	NA	DCA
AI-54B	94-25/FD	9828	G080	CR120A26941	AI-54B	77	1036	NA	ESNTL
AI-54B	94-25X/FD	39723	P297	KUP5D1524	AI-54B	77	1036	NA	DCA
AI-66B	94-3/1045	21423	G080	12HFA151A2H	Al-66B	77	1036	AI-41B-04	DCA
AC-DC-2	94-3/400	41271	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	DCA
AC-DC-2	94-3/401	41271	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	DCA
AC-DC-2	94-3/402	41271	G080	CR120AD04041AA	AC-DC-2	77	1036	AI-41B-12	DCA
AC-DC-2	94-3/403	41271	G080	CR120AD04041AA	AC-DC-2	77	1036	AI-41B-12	DCA
AI-54B	94-32/FD	9828	G080	CR120A26941	AI-54B	77	1036	AI-41A-09	DCA
A1-54B	94-32X/FD	39723	P297	KUP5D15	AI-54B	77	1036	NA	DCA
Al-66B	94-4/1045	21423	A109	E7022PB004	AI-66B	77	1036	AI-41B-04	DCA
AI-109A	94-A1/LS	12280	G080	12HFA151A2H	AI-109A	56	1011	AI-41A-06	DCA
A1-109A	94-A3/LS	12280	G080	12HFA51A42H	AI-109A	56	1011	AI-41A-06	DCA
AI-109B	94-B2/LS	43388	G080	12HFA151A2H	AI-109B	56	1011	AI-41B-06	ESNTL
AI-109B	94-B3/LS	43388	G080	12HFA151A2H	AI-109B	56	1011	AI-41B-06	ESNTL
MCC-3A1	94/1	43399	G080	CR2810	MCC-3A1	57	1013	NA	ESNTL
MCC-4C1	94/10	43402	G080	CR2810	MCC-4C1	57	1013	MCC-4C1	ESNTL
CB-4	94/1041	12263	G080	CR120A26241	CB-4	77	1036	AI-41B-12	DCA
CB-4	94/1042	12263	G080	CR120AD04041AA	CB-4	77	1036	AI-41B-12	DCA
Al-66B	94/1045	21423	G080	12HFA151A2H	AI-66B	77	1036	AI-41B-04	DCA
C2-13,11	94/1045B	43389	G080	CR120AD04041AA	CB-10 - 11	77	1036	AI-41B-14	ESNTL
AI-179	94/1045B-1	43389	G080	CR120AD04041AA	AI-179	57	1013	EE-8G-17	ESNTL
CB-10,11	94/1045C	43389	G080	CR120AD04041AA	CB-10 - 11	77	1036	AI-41B-14	ESNTL
Al-179	94/1045C-1	43389	G080	CR120AD04041AA	AI-179	57	1013	EE-8G-17	ESNTL
MCC-4C1	94/11	43402	G080	CR2810	MCC-4C1	57	1013	MCC-4C1	ESNTL
AI-179	94/1107A-1	21422	G080	CR120A	AI-179	57	1013	EE-8F-18	DCA
AI-66A	94/1107A-2	21422	G080	12HFA151A2H	AI-66A	77	1036	AI-41A-02	DCA
AI-66B	94/1107B-1	21422	G080	12HFA151A2H	AI-66B	77	1036	AI-41B-04	DCA
AI-179	94/1108A-1	21421	G080	CR120A26241	AI-179	57	1013	EE-8F-18	DCA
Al-66A	94/1108A-2	21421	G080	12HFA151A2H	AI-66A	77	1036	AI-41A-02	DCA
AI-66B	94/1108B-1	21421	G080	12HFA151A2H	Al-66B	77	1036	AI-41B-04	DCA
MCC-4C1	94/12	43402	G080	CR2810	MCC-4C1	57	1013	MCC-4CI	ESNTL
CB-10,11	94/1368	37570	G080	CR120A26241	CB-10 - 11	77	1036	Al-41A-14	ESNTL
AI-179	94/1368A	37570	G080	CR120A	AI-179	57	1013	EE-8F-18	ESNTL
CB-10,11	94/1369	37570	G080	CR120A26241	CB-10 - 11	77	1036	AI-41B-14	ESNTL
AI-179	94/1369A	37570	G080	CR120A26241	AI-179	. 57	1013	EE-8G-17	ESNTL
CB-10,11	94/1387A	22745	G080	CR120AD04041AA	CB-10,11	77	1036	AI-41A-14	DCA
CB-10,11	94/1387B	22745	G080	CR120AD04041AA	CB-10,11	77	1036	AI-41B-14	DCA
CB-10,11	94/1388A	22745	G080	CR120AD04041AA	CB-10,11	77	1036	AI-41A-14	DCA

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
CB-10,11	94/1388B	22745	G080	CR120AD04041AA	CB-10,11	77	1036	AI-41B-14	DCA
MCC-3A1	94/2	43399	G080	CR2810	MCC-3A1	57	1013	NA	ESNTL
AC-DC-2	94/202	1279	G080	CR120AD04041AA	AC-DC-2	77	1036	Al-41A-12	DCA
AC-DC-2	94/238	24368	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/239	24369	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/240	43398	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
CB-1,2,3	94/247	37607	G080	CR120BD003241	CB-1 - 2 - 3	77	1036	AI-41B-12	ESNTL
CB-1,2,3	94/248	37607	G080	CR120BD3241	CB-1 - 2 - 3	77	1036	AI-41A-12	ESNTL.
CB-1,2,3	94/249	37607	G080	CR120BD003241	CB-1 - 2 - 3	77	1036	AI-41B-12	ESNTL
AI-107	94/2504A	41692	G080	CR120A	AI-107	60	1007	NA	DCA
AI-107	94/2506A	41692	G080	CR120A	AI-107	60	1007	NA	DCA
AI-107	94/2507A	41692	G080	CR120A	AI-107	60	1007	NA	DCA
AI-107	94/2510	22745	A109	EGPD003	AI-107	60	1007	AI-41A-01	DCA
AI-107	94/2511	22745	A109	EGPD003	AI-107	60	1007	AI-41B-01	DCA
CB-4	94/257	12286	G080	CR120A26241	CB-4	77	1036	AI-41B-12	DCA
CB-4	94/264	12286	G080	CR120A26241	CB-4	77	1036	AI-41A-12	DCA
CB-4	94/269	6153	G080	CR120A26241	CB-4	77	1036	AI-41A-12	DCA
AI-30A(ESF)	94/2861	42521	G080	CR120A26241	AI-30A(ESF)	77	1036	AI-41A-06	ESNTL
AC-DC-2	94/2874A	12597	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2874B	12597	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2875A	12597	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2875B	12597	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2876A	12597	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2876B	12597	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2877A	41672	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2877B	41672	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2878A	41672	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2878B	41672	G080	CR120A26241	AC-DC-2	77 .	1036	AI-41B-12	ESNTL
AC-DC-2	94/2879A	41672	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2879B	41672	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2880A	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2880B	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2881A	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2881B	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2882A	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2882B	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	ESNTL
AC-DC-2	94/2883A	41614	G080	CR120AD4041AA	AC-DC-2	77	1036	AI-41B-12	ESNTL
AC-DC-2	94/2883B	41614	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	ESNTL
CB-10,11	94/291	43437	G080	CR120AD03041AA	CB-10 - 11	77	1036	AI-41A-14	ESNIL
							1030	W-41W-14	LANT

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
CB-10,11 AU	94/292	43437	G080	CR120AD03041AA	CB-10 - 11 AUX	77	1036	AI-41B-14	ESNTL
MCC-3A1	94/3	43399	G080	CR2810	MCC-3A1	57	1013	NA	ESNTL
AI-45	94/438A/C	41303	G080	CR120A	AI-45	77	1036	Al-41A-17	ESNTL
AI-45	94/438B/D	41303	G080	CR120A	AI-45	77	1036	AI-41B-02	ESNTL
AC-DC-2	94/489	41588	G080	CR120A26241	AC-DC-2	77	1036	A:: 4-12	DCA
AC-DC-2	94/490	41588	G080	CR120A26241	AC-DC-2	77	1036	∆I-41B-12	DCA
AC-DC-2	94/491	41588	G080	CR120A26241	AC-DC-2	77	1036	AI-41A-12	DCA
AC-DC-2	94/492	41588	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-12	DCA
AI-30A(ESF)	94/724A	12287	G080	CR120A26241	AI-30A(ESF)	77	1036	AI-41A-06	DCA
AI-30B(ESF)	94/725A	12287	G080	CR120A26241	AI-30B(ESF)	77	1036	AI-41B-06	DCA
AI-106A	94/LS2898	21846	G080	CR120B04022	AI-106A	77	1036	NA	DCA
AI-106B	94/LS2899	21846	G080	CR120B04022	AI-106B	77	1036	NA	DCA
AI-146	94/VA-52A	41561	S440	219BBXP	Al-146	63	1014	MCC-3B1	DCA
AI-147	94/VA-52B	41561	S440	219BBXP	AI-147	64	1014	MCC-4A1	DCA
Al-106A	94/VA46A	21847	G080	CR120B04022	AI-106A	77	1036	NA	ESNTL
Al-106B	94/VA46B	21847	G080	CR120B04022	AI-106B	77	1036	NA	ESNTL
Al-43A	94A/CIAS	40247	A109	EGPD001	AI-43A	77	1036	NA	DCA
AC-DC-2	94A/PE-5A	41671	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-2	DCA
All-106A	94AX1/VIAS	21847	G080	CR120B0D0422	AI-106A	77	1036	NA	ESNTL
All-106A	94AX2/VIAS	21847	G080	CR120B04022	AI-106A	77	1036	NA	DCA
AC-DC-2	94B/PE-5A	41671	G080	CR120A26241	AC-DC-2	77	1036	AI-41B-2	DCA
AC-DC-2	94B/PE-5A	41671	G080	CR120A26241	AC-DC-2	77	1036	NA	DCA
AI-106B	94BX1/VIAS	21847	G080	CR120B04022	AI-106B	77	1036	NA	ESNTL
AI-106B	94BX2/VIAS	21847	G080	CR120B04022	AI-106B	77	1036	NA	DCA
CB-4 AUX	A/94-1/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	77	1036	AI-41A-03	ESNTL
CB-4 AUX	A/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	77	1036	AI-41A-03	ESNTL
AC-DC-1	A/94-3/SIAS	5649	G080	12HFA151A2H	AC-DC-1	77	1036	AI-41A-12	ESNTL.
AI-44	A/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	77	1036	AI-41A-10	ESNTL
A/PC-742-1	A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	12W'P-14N'6D	59	1012	NA	ESNTL
A/PC-742-2	A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	10W'P-14N'6D	59	1012	NA	ESNTL
CB-1,2,3	A/PIA-102Y	9829	S185	9223-30-E	CB-1 - 2 - 3	77	1036	AI-40A-01	DCA
AC-DC-1	A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	77	1036	AJ-40A-01	ESNTL
AC-DC-1	A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	77	1036	AI-40A-01	ESNTL
CB-4	A/PIC-902	9800	D989	BB101AJTX10	CB-4	77	1036	A/PQ-902	ESNTL
CB-4	A/PIC-905	9800	D989	BB101AJTX10	CB-4	77	1036	A/PQ-905	ESNTL
CB-4 AUX	A/PIC-A1	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40A-05	ESNTL
CB-4 AUX	A/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40A-05	ESNTL
Al-66A	A/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66A	77	1036	AI-41A-02	ESNTL
AI-66A	A/RC-2B/AFWS	16145	G080	12HFA151A2H	A1-66A	77	1036	AI-41A-02	ESNTL

Al-56A Al/RC-2JA/FWS 1614S G080 121FA 51A2PH Al-56A 77 1036 Al-41A-02 ESNTI. Al-56A Al/RC-2JA/FMS 1614S G080 121FA 51A2PH Al-50A(DI) 77 1036 Al-41A-02 ESNTI. Al-30B(D2) AC-A/IAD1 9808 G080 121FA 51A42P Al-30A(DI) 77 1036 Al-41A-13 ESNTI. Al-30B(D2) AC-AVIAD2 9818 Al 169 2452PB Al-30A(DI) 77 1036 Al-41A-13 ESNTI. Al-30B(D1) AC-AVIAD2 9818 Al 169 2452PB Al-30A(DI) 77 1036 Al-41A-13 ESNTI. Al-30B(D1) AC-BVIAD1 9808 G080 121FA 51A42F Al-30B(D1) 77 1036 Al-41B-13 ESNTI. Al-30B(D2) AC-BVIAD1 9808 G080 121FA 51A42F Al-30B(D1) 77 1036 Al-41B-13 ESNTI. Al-30B(D2) AC-BVIAD1 9808 Al 169 2452PB Al-30B(D2)	BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
A-Jangli	AI-66A	A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	77	1036	A1-41A-02	ESNTL
Al-Janglity AC-Al/ADFI 9808 G800 12He/AS1A42F Al-Janglity 77 1936 Al-1A-66 ESNTL Al-Janglity AC-Al/ADI 9818 G800 12He/S1A42F Al-Janglity 77 1936 Al-1A-66 ESNTL Al-Janglity AC-AXIADI 9818 Al 190 2452PB Al-Janglity 77 1936 Al-1A-66 ESNTL Al-Janglity AC-AXIADI 9818 Al 190 2452PB Al-Janglity 77 1936 Al-1A-66 ESNTL Al-Janglity AC-BXIADI 9818 G80 12HE/A51A42F Al-Janglity 77 1936 Al-1B-1A-3 ESNTL Al-Janglity AC-BXIADI 9818 Al 190 2452BB Al-Janglity 77 1936 Al-HB-1B-6 ESNTL Al-JBAC AC-CADID 9818 Al 190 2452BB Al-Janglity 77 1036 Al-HB-6 ESNTL Al-JBAC AC-CADID 1736 PSP7 KRPHAG Al-JBACHITY 6	AI-66A	A1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	77	1036	Al-41A-02	ESNTI.
AJ-30B(DZ) AC-AVIADZ 9818 G080 12HFA51A42F AJ-30B(DZ) 77 1036 AJ-11A-13 ESNTL AJ-30A(DI) AC-AVIADZ 9818 AJ09 2452B AJ-30B(DZ) 77 1036 AJ-11A-06 ESNTL AJ-30A(DI) AC-AVIADZ 9818 AJ09 2452B AJ-30B(DZ) 77 1036 AJ-11A-13 ESNTL AJ-30A(DI) AC-BIADZ 9818 G080 12HFA51A42F AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ 9818 G080 12HFA51A42F AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ 9818 G080 22HFA51A42F AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ 9818 AJ09 2452PB AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ 9818 AJ09 2452PB AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ 9818 AJ09 2452PB AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ 9818 AJ09 2452PB AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ AC-BIADZ 9818 AJ09 2452PB AJ-30A(DI) 77 1036 AJ-11B-06 ESNTL AJ-30B(DZ) AC-BIADZ AC-BIADZ AC-BIADZ AD-11B-1 AJ-11B-1 AJ-11B-	AI-30A(D1)	AC-A/1AD1	9808	G080	12HFA51A42F	AI-30A(D1)	77	1036	AI-41A-06	
A-3-30A(D1) A-C-AVIAD1 9808 A109 2452PB A1-30A(D1) 77 1036 A1-41A-06 ESNTL A1-30B(D2) AC-AVIAD2 9818 A109 2452PB A1-30B(D2) 77 1036 A1-41B-13 ESNTL A1-30B(D1) AC-BITAD1 9808 G080 L2HFA51A42F A1-30B(D1) 77 1036 A1-41B-13 ESNTL A1-30B(D2) AC-BITAD2 9818 G080 L2HFA51A42F A1-30B(D2) 77 1036 A1-41B-6 ESNTL A1-30B(D2) AC-BITAD2 9818 A109 2452PB A1-30B(D2) 77 1036 A1-41B-6 ESNTL A1-30B(D2) AC-BITAD2 9818 A109 2452PB A1-30B(D2) 77 1036 A1-41B-6 ESNTL A1-30B(D2) AC-BITAD2 9818 A109 2452PB A1-30B(D2) 77 1036 A1-41B-6 ESNTL A1-30B(D2) AC-BITAD2 7196 7297 REP14DG A1-133A 63 1007 NA ESNTL A1-133B ACCLD2 17396 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-133B ACCLD2 17396 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-133A A1-33A-2CR 10791 G080 CR16/SM00/ADA A1-133A 63 1007 NA ESNTL A1-133A A1-33A-4C 10791 P297 REP14DG A1-133A 63 1007 NA ESNTL A1-133B A1-33B-3CR 10791 P297 REP14DG A1-133A 63 1007 NA ESNTL A1-133B A1-33B-3CR 10791 P297 REP14DG A1-133A 63 1007 NA ESNTL A1-133B A1-133B-3CR 10791 P297 REP14DG A1-133A 63 1007 NA ESNTL A1-133B A1-133B-3CR 10791 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-133B A1-133B-3CR 10791 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-133B A1-133B-3CR 10791 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-133B A1-133B-3CR 10791 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-133B A1-133B-3CR 10791 P297 REP14DG A1-133B 64 1007 NA ESNTL A1-131B A1-134B-3CR 10791 P297 REP14DG A1-13B P3 P3 P3 P3 P3 P3 P3	AI-30B(D2)	AC-A/1AD2	9818	G080	12HFA51A42F	AI-30B(D2)	77	1036	AI-41A-13	
Al-30B(D2) AC-AVIAD2	AI-30A(D1)	AC-AX/1AD1	9808	A109	2452PB			1036		
A-30A(D1) A-BrAD1 9808 G080 12HFA51A42F AI-30A(D1) 77 1036 AI-HB-13 ENTL AI-30B(D2) AC-BrAD2 9818 G080 12HFA51A42F AI-30B(D2) 77 1036 AI-HB-13 ENTL AI-30B(D2) AC-BX/IAD1 9808 AI09 2452PB AI-30B(D2) 77 1036 AI-HB-13 ENTL AI-30B(D2) AC-BX/IAD2 9818 AI09 2452PB AI-30B(D2) 77 1036 AI-HB-13 ENTL AI-30B(D2) AC-BX/IAD2 9818 AI09 2452PB AI-30B(D2) 77 1036 AI-HB-16 ENTL AI-30B(D2) AC-BX/IAD2 9818 AI09 2452PB AI-30B(D2) 77 1036 AI-HB-16 ENTL AI-133B ACCL/D2 17396 P297 KRPIADG AI-133A 63 1007 NA ENTL AI-133B ACCZ/D2 17396 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B ACCZ/D2 17396 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133A AI-133A-4IC 10791 P297 KRPIADG AI-133A 63 1007 NA ENTL AI-133B AI-133B-2CR 10791 P297 KRPIADG AI-133A 63 1007 NA ENTL AI-133B AI-133B-2CR 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-133B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-133B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-133B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-133B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-33B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-33B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-33B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-33B-4IC 10791 P297 KRPIADG AI-133B 64 1007 NA ENTL AI-133B AI-33B-AI 1587 AI60 702-DAD94 AI-3 77 1036 NA ENTL AI-31A AI-3-AW AI-3 AI-3 AI-3 AI-3 AI-3 AI-3 AI-3 AI-3-MA 1587 AI60 702-DAD94 AI-3 AI-3 AI-3 AI-3 AI-3 AI-3 AI-3-AW AI-3-AW AI-3	AI-30B(D2)	AC-AX/1AD2	9818	A109	2452PB	AI-30B(D2)	77	1036	AI-41A-13	
Al-30R(D2) AC-BVAD2 9818 G880 12HFA51A2F Al-30R(D2) 77 1036 Al-41B-06 ESNTL Al-30R(D2) AC-BVATAD1 9808 Al 109 2452PB Al-30R(D1) 77 1036 Al-41B-10 ESNTL Al-30R(D2) AC-BVATAD2 9818 Al 109 2452PB Al-30R(D1) 77 1036 Al-41B-06 ESNTL Al-30R(D2) AC-BVATAD2 9818 Al 109 2452PB Al-30R(D2) 77 1036 Al-41B-06 ESNTL Al-313A ACCI/D1 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B ACCI/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B ACCI/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A Al-133A-2CR 10791 G808 CR105M00ADA Al-133A 63 1007 NA ESNTL Al-133A Al-133A-2CR 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-94 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B Al-	AI-30A(D1)	AC-B/1AD1	9808	G080	12HFA51A42F	AI-30A(D1)				
Al-30(DI) Al-30(DI) Al-30(DI) 77 1036 Al-1B-13 ESNTL Al-30(DI) AC-BXIADI 9818 Al 109 2452PB Al-30(DI) 77 1036 Al-41B-06 ESNTL Al-333B ACCI/DI 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B ACCI/DI 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A ACCZ/DI 17396 P297 KRP14DG Al-133B 63 1007 NA ESNTL Al-133A Al-133A-CR 10791 G080 CR105M00ADA Al-133B 63 1007 NA ESNTL Al-133A Al-133A-2CR 10791 P297 KAP14DG Al-133B 63 1007 NA ESNTL Al-133B Al-133A-AC 10791 P297 KAP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-AC Al-133B-	AI-30B(D2)	AC-B/1AD2	9818	G080	12HFA51A42F					
Al-300(D2) Al-200(D2) 9818 Al 109 2452PB Al-103A 63 Al-41B-06 ESNTL Al-133A ACCI/D1 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B ACCI/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A ACCI/D2 17396 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-2CR 10791 C980 CR105M000ADA Al-133A 63 1007 NA ESNTL Al-133A Al-133A-2CR 10791 P297 KRP11DG Al-133A 63 1007 NA ESNTL Al-133B Al-133B-2CR 10791 C980 CR105M000ADA Al-133B 64 1007 NA ESNTL Al-133B Al-133B-1C 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B	AI-30A(D1)	AC-BX/IADI	9808	A109	2452PB	AI-30A(D1)		1036	AI-41B-13	
Al-133A ACCI/DI 17396 P297 KRPI4DG Al-133A 63 1007 NA ESNIL Al-133B ACCI/D2 17396 P297 KRPI4DG Al-133B 63 1007 NA ESNIL Al-133B ACCZ/DI 17396 P297 KRPI4DG Al-133B 63 1007 NA ESNIL Al-133B ACCZ/D2 17396 P297 KRPI4DG Al-133B 64 1007 NA ESNIL Al-133A Al-133A-2CR 10791 G080 CR105M000ADA Al-133A 63 1007 NA ESNIL Al-133A Al-133A-41C 10791 P297 KRP14DG Al-133B 64 1007 NA ESNIL Al-133B Al-133B-2CR 10791 G080 CR105M000ADA Al-133B 64 1007 NA ESNIL Al-133B Al-133B-34C 10791 P297 KRP14DG Al-133B 64 1007 NA ESNIL Al-1	AI-30B(D2)	AC-BX/1AD2	9818	A109	2452PB		77	1036	AI-41B-06	
Al-133B ACCI/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A ACCI/D1 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A ACCI/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B ACCI/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A Al-133A-2CR 10791 G080 CR105M00iADA Al-133A 63 1007 NA ESNTL Al-133A Al-133A-2CR 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-94 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-2CR 10791 G080 CR105M000ADA Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-13A-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 692-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 692-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 692-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 692-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-AW7-K(AB)4 1587 C490 692-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-AW7-K(AB)4 1587 C490 692-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-AW7-K(AB)4 1587 C490 692-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C490 692-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C490 692-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C490 692-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C490 692-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C490 692-34460 Al-31B 77 1036 NA E	AI-133A	ACC1/D1	17396	P297	KRP14DG	AI-133A	63	1007		
Al-133A ACCZ/D1 17396 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133B ACCZ/D2 17396 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133B ACCZ/D2 17396 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-2CR 10791 G080 CR105M00/ADA Al-133A 63 1007 NA ESNTL Al-133A Al-133A-41C 10791 P297 KAP11DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-2CR 10791 G080 CR105M00/ADA Al-133B 64 1007 NA ESNTL Al-133B Al-133B-2CR 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-41C 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-3-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3-M3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3-M4 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3-M4 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3-M4 Al-3-M4-K(AB)1 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3-M4 Al-3-M4-K(AB)1 1587 C490 692-34460 Al-3-M5 77 1036 NA ESNTL Al-3-M4-K(AB)3 1587 C490 692-34460 Al-3-M5 77 1036 NA ESNTL Al-3-M4-K(AB)3 1587 C490 692-34460 Al-3-M5 77 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6-K(BD)4 1587 C490 692-34460 Al-3-M6 T7 1036 NA ESNTL Al-3-M6 Al-3-M6	AI-133B	ACC1/D2	17396	P297	KRP14DG	AI-133B		1007	NA	
Al-133B ACC2/D2 17396 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133A Al-133A-2CR 10791 G080 CR105M00iADA Al-133A 63 1007 NA DCA Al-133A Al-133A-4IC 10791 P297 KAP11DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-4IC 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-2CR 10791 G080 CR105M000ADA Al-133B 64 1007 NA DCA Al-133B Al-133B-4IC 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-3 Al-3 M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M2 Al-3 M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3 M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-3 Al-3 Al-3 M-3 M-3 M-3 M-3 M-3 M-3 M-3 M-3 M-3 M	AI-133A	ACC2/D1	17396	P297	KRP14DG	AI-133A	63	1007		
Al-133A Al-133A-2CR 10791 G080 CR105M00iADA Al-133A 63 1007 NA DCA Al-133A Al-133A-41C 10791 P297 KAPILDG Al-133A 63 1007 NA ESNTL Al-133B Al-133A-94 10791 P297 KRPI4DG Al-133A 63 1007 NA ESNTL Al-133B Al-133B-2CR 10791 G080 CR105M000ADA Al-133B 64 1007 NA DCA Al-133B Al-133B-41C 10791 P297 KAPILDG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAPILDG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRPI4DG Al-133B 64 1007 NA ESNTL Al-3 Al-3-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-31A Al-31A-AWI-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AWI-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AWI-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1695 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1695 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1695 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW0-K10 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587	AI-133B	ACC2/D2	17396	P297	KRP14DG	AI-133B	64	1007	NA	
Al-133A Al-133A-4IC 10791 P297 KAPILIDG Al-133A 63 1007 NA ESNTL Al-133A Al-133A-94 10791 P297 KRP14DG Al-133A 63 1007 NA ESNTL Al-133B Al-133B-2CR 10791 G080 CRIOSM000ADA Al-133B 64 1007 NA DCA Al-133B Al-133B-4IC 10791 P297 KAPILDG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAPILDG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 77 1036 NA DCA Al-3 Al-3-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460	AI-133A	AI-133A-2CR	10791	G080	CR105M000ADA	AI-133A	63	1007	NA	
Al-133A Al-33A-94 10791 P297 KRP14DG Al-133A 63 007 NA ESNTL Al-133B Al-133B-2CR 10791 G080 CR105M000ADA Al-133B 64 1007 NA DCA Al-133B Al-133B-41C 10791 P297 KAP1DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-41C 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-3 Al-3-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW0-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-	AI-133A	AI-133A-41C	10791	P297	KAPIIDG		63			
Al-133B Al-133B-2CR 10791 G080 CR105M000ADA Al-133B 64 1007 NA DCA Al-133B Al-133B-41C 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KAP14DG Al-133B 64 1007 NA ESNTL Al-3 Al-3-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-31A-AW10-K1 1605 P297 KHS17D11-24 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C496 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C496 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1D 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1D 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1D 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-133A	AI-133A-94	10791	P297	KRP14DG	AI-133A	63	1007	NA	
Al-133B Al-133B-41C 10791 P297 KAP11DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-133B Al-133B-94 10791 P297 KRP14DG Al-133B 64 1007 NA ESNTL Al-3 Al-3 Al-3-M1 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-KD1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B	AI-133B	AI-133B-2CR	10791	G080	CR105M000ADA	AI-133B	64	1007	NA	
Al-3 Al-3-MI 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C346 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW9-K10 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-133B	AI-133B-41C	10791	P297	KAPIIDG	AI-133B	64	1007	NA	
Al-3 Al-3-MI 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M2 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-31A-AW10-K1 1605 P297 KHS17D11-24 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K13 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-Al Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-133B	Al-133B-94	10791	P297	KRP14DG	AI-133B	64	1007	NA	ESNTL
Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-31A-AW10-K1 1605 P297 KHS17D11-24 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K10 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K101 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-3	AI-3-M1	1587	A160	702-DAD94	AI-3	77	1036	NA	DCA
Al-3 Al-3-M3 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-3 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-31A-AW10-K1 1605 P297 KHS17D11-24 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K13 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-3	AI-3-M2	1587	A160	702-DAD94	AI-3	77	1036	NA	DCA
Al-31 Al-3-M4 1587 Al60 702-DAD94 Al-3 77 1036 NA DCA Al-31A Al-31A-AW10-K1 1605 P297 KHS17D11-24 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1D 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-3	AI-3-M3	1587	A160	702-DAD94	AI-3	77	1036	NA	
Al-31A Al-31A-AW7-K(AB)1 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K13 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KT0 1587 A160 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 A160 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-3	AI-3-M4	1587	A160	702-DAD94	AI-3	77	1036	NA	DCA
Al-31A Al-31A-AW7-K(AB)2 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K13 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-A1 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-31A	Al-31A-AW10-K1	1605	P297	KHS17D11-24	Al-31A	77	1036	NA	ESMIL
Al-31A Al-31A-AW7-K(AB)3 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K13 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-Al Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	AI-31A	AI-31A-AW7-K(AB)1	1587	C490	6924-34460	AI-31A	77	1036	NA	ESNIL
Al-31A Al-31A-AW7-K(AB)4 1587 C490 6924-34460 Al-31A 77 1036 NA ESNTL Al-31B Al-31B-BW10-K1 1605 P297 KHS17D11-24 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K1 1587 S345 8501-GD0-26 Al-31B 77 1036 NA DCA Al-31B Al-31B-BW19-K11 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-K13 1587 C346 HG3A-1008 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW19-KTD1 1587 Al60 700-NT200-Al Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW20-K3 1587 S345 8501-GD0-26 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)1 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)2 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL Al-31B Al-31B-BW6-K(BC)3 1587 C490 6924-34460 Al-31B 77 1036 NA ESNTL	Al-31A	AI-31A-AW7-K(AB)2	1587	C490	6924-34460	AI-31A	77	1036	NA	
AI-31B AI-31B-BW10-K1 1605 P297 KHS17D11-24 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-K1 1587 S345 8501-GD0-26 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-K11 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-K13 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-KTD1 1587 A160 700-NT200-A1 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW20-K3 1587 S345 8501-GD0-26 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	Al-31A	AI-31A-AW7-K(AB)3	1587	C490	6924-34460	AI-31A	77	1036	NA	ESNTL
AI-31B AI-31B-BW19-K1 1587 S345 8501-GD0-26 AI-31B 77 1036 NA DCA AI-31B AI-31B-BW19-K11 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-K13 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-KTD1 1587 A160 700-NT200-A1 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW20-K3 1587 S345 8501-GD0-26 AI-31B 77 1036 NA DCA AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31A	AI-31A-AW7-K(AB)4	1587	C490	6924-34460	AI-31A	77	1036	NA	ESNTL
AI-31B AI-31B-BW19-K11 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-K13 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-KTD1 1587 A160 700-NT200-A1 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW20-K3 1587 S345 8501-GD0-26 AI-31B 77 1036 NA DCA AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	AI-31B-BW10-K1	1605	P297	KHS17D11-24	AI-31B	77	1036	NA	ESNTL.
AI-31B AI-31B-BW19-K11 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-K13 1587 C346 HG3A-1008 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW19-KTD1 1587 A160 700-NT200-A1 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW20-K3 1587 S345 8501-GD0-26 AI-31B 77 1036 NA DCA AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	Al-31B-BW19-K1	1587	S345	8501-GD0-26	AI-31B	77	1036	NA	
AI-31B AI-31B-BW19-KTD1 1587 A160 700-NT200-A1 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW20-K3 1587 S345 8501-GD0-26 AI-31B 77 1036 NA DCA AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	AI-31B-BW19-K11	1587	C346	HG3A-1008	Al-31B	77	1036	NA	
AI-31B AI-31B-BW19-KTD1 1587 A160 700-NT200-A1 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW20-K3 1587 S345 8501-GD0-26 AI-31B 77 1036 NA DCA AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	AI-31B-BW19-K13	1587	C346	HG3A-1008	AI-31B	77	1036	NA	ESNTI.
AI-31B AI-31B-BW6-K(BC)1 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	Al-31B-BW19-KTD1	1587	A160	700-NT200-A1	AI-31B	77	1036	NA	
AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	AI-31B-BW20-K3	1587	S345	8501-GD0-26	AI-31B	77	1036	NA	DCA
AI-31B AI-31B-BW6-K(BC)2 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	AI-31B-BW6-K(BC)1	1587	C490	6924-34460	AI-31B	. 77	1036		
AI-31B AI-31B-BW6-K(BC)3 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	Al-31B-BW6-K(BC)2	1587	C490	6924-34460	AI-31B	77	1036	NA	
AI-31B AI-31B-BW6-K(BC)4 1587 C490 6924-34460 AI-31B 77 1036 NA ESNTL	AI-31B	AI-31B-BW6-K(BC)3	1587	C490	6924-34460	AI-31B	77	1036	NA	
	AI-31B		1587	C490	6924-34460	AI-31B	77	1036	NA	

A-3-1B A-3-1B-BW-Y-K(BD) 1587 C490 6924-34460 A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BW-Y-K(BD) 1587 C490 6924-34460 A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BW-Y-K(BD) 1587 C490 6924-34460 A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BW-Y-K(BD) 1587 C490 6924-34460 A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BW-Y-K(BD) 1587 A199 EGP A-3-1B 77 1036 NA ESNTL A-3-3-1B A-3-1B-BW-Z 1587 A199 EGP A-3-1B 77 1036 NA ESNTL A-3-3-1B A-3-3-1C-W10-KL 1655 P.977 K1817/D1-24 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W10-KL 1587 C406 HGA-1008 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W19-KL 1587 C406 HGA-1008 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W19-KL 1587 C406 HGA-1008 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W19-KL 1587 S345 8591-GD0-26 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W19-KL 1587 S345 8591-GD0-26 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W19-KL 1587 S345 8591-GD0-26 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W19-KL 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)2 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-1B 77 1036 NA ESNTL A-3-3-1C A-3-3-1C-W6-K(AC)3 1587 C490 6924-3460 A-3-	BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
A3-13B A3-13B B-W7-X(BD)2 1587 C690 6924-34460 A1-31B 77 1036 NA ESNTL A3-13B A3-13B B-W7-X(BD)4 1587 C490 6925-34460 A1-31B 77 1036 NA ESNTL A3-13B A-31B-RW-1 1587 C490 6925-34460 A1-31B 77 1036 NA ESNTL A3-13B A-31B-RK-2 1587 A199 ECPF A1-31B 77 1036 NA ESNTL A3-31C A-31C-CW16-K1 1605 P37 C346 HGA-1008 A1-31C 77 1036 NA ESNTL A3-31C A-31C-CW19-K12 1587 C346 HGA-1008 A1-31C 77 1036 NA ESNTL A3-31C A-31C-CW19-K12 1587 C346 HGA-1008 A1-31C 77 1036 NA ESNTL A3-31C A-31C-CW19-K12 1587 C346 HGA-1008 A1-31C 77 1036 NA ESNTL A3-31C A-31C-CW19-K12 1587 C490	A1-31B	AI-31B-BW7-K(BD)1	1587	C490	6924-34460	AI-31B	77	1036	NA	ESNTL
A3-31B A3-31B-BWT-K[BD]3 1587 C490 6924-34460 A3-31B 77 1036 NA ESNTL A3-31B A3-31B-BWT-K[BD]4 1587 A490 ECPF A1-31B 77 1036 NA ESNTL A3-31B A1-31B-R-1 1587 A109 ECPF A1-31B 77 1036 NA ESNTL A3-31B A1-31B-R-2 1587 A109 ECPF A1-31B 77 1036 NA ESNTL A3-31C A3-31C-CW19-K1 1605 P297 K18517D11-24 A1-31B 77 1036 NA ESNTL A3-31C A3-31C-CW19-K1 1887 C46 HG3A-1008 A1-31C 77 1036 NA ESNTL A3-31C A3-31C-CW19-K1 1887 C46 HG3A-1008 A1-31C 77 1036 NA ESNTL A3-31C A3-31C-W19-K12 1887 C490 6924-3460 A1-31C 77 1036 NA ESNTL <	AI-31B	AI-31B-BW7-K(BD)2	1587	C490	6924-34460	AI-31B	77	1036	NA	
A-3-1B A-3-1B-BW-X-(BD)4 1587 C490 692-3-4460 A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BR-3 1587 A109 EGP A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BR-2 1587 A109 EGP A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BR-2 1587 A109 EGP A-3-1B 77 1036 NA ESNTL A-3-1B A-3-1B-BR-2 A-3-1B-BR-2 A-3-1B A-3-1	AI-31B	AJ-31B-BW7-K(BD)3	1587	C490	6924-34460					
A-31B A-31B-R-1 187 A19 EGP	A1-31B	AI-31B-BW7-K(BD)4	1587	C490	6924-34460	Al-31B	77	1036		
Al-31BB Al-31B-R-2 1587 Al-99 EOPI Al-31B 77 1036 NA ESNTL Al-31C Al-31C-CW10-K1 1605 P297 KISI/D11-24 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW19-K12 1587 C346 HG3A-1008 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW19-K14 1587 C346 HG3A-1008 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW19-KTD2 1587 S145 S891-GD0-26 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW0-K4 1587 S145 S81-GD0-26 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW8-K(AC)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL	AI-31B	AI-31B-IR-1	1587	A109	EGPI					
A-31C	AI-31B	AI-31B-IR-2	1587	A109	EGPI	Al-31B	77	1036		
Al-31C Al-31C-CW19-K12 1587 C346 HG3A-1008 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW19-K14 1587 C346 HG3A-1008 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW19-KTD2 1587 S45 8501-GD0-26 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K4CD1 1587 S45 8501-GD0-26 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K4CD1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K4CD3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K4CD4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESN	AI-31C	AI-31C-CW10-K1	1605	P297	KHS17D11-24		77			
Al-31C Al-31C-Wij9-ki4 1587 C346 HG3A-1008 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-Wij9-kTD2 1587 S145 8501-GD0-26 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-Wij9-kTD2 1587 S145 8501-GD0-26 Al-31C 77 1036 NA DCA Al-31C Al-31C-Wij6-kTAC1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-Wij6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-Wij6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-Wij6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-Wij6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA	AI-31C	AI-31C-CW19-K12	1587	C346	HG3A-1008					
Al-31C Al-31C-Wil9-K7D 1587 SA45 8591-GDO-26 Al-31C 77 1036 NA DCA Al-31C Al-31C-Wil9-KTD2 1587 Al60 700-NT200-A1 Al-31C 77 1036 NA DCA Al-31C Al-31C-Wil6-K(AC)1 1587 C490 692-34460 Al-31C 77 1036 NA ESNIT. Al-31C Al-31C-CW6-K(AC)2 1587 C490 692-34460 Al-31C 77 1036 NA ESNIT. Al-31C Al-31C-CW6-K(AC)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNIT. Al-31C Al-31C-CW7-K(CD)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNIT. Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNIT. Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA	AI-31C	AI-31C-CW19-K14	1587	C346	HG3A-1008					
Al-31C Al-31C-CW19-KTD2 1587 Al-60 700-NT200-Al Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)1 1587 S345 8501-GD0-26 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)3 1587 A109 EGPI Al-31C 77 1036 NA	AI-31C	AI-31C-CW19-K2	1587	S345	8501-GD0-26	AI-31C		1036		
A-1-31C A1-31C-CW26K4 1587 S345 8501-GD0-26 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW6-K(AC)1 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW6-K(AC)2 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW6-K(AC)3 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW7-K(CD)1 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW7-K(CD)1 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW7-K(CD)2 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW7-K(CD)3 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW7-K(CD)4 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-CW7-K(CD)4 1587 C490 6924-34460 A1-31C 77 1036 NA ESNTL A1-31C A1-31C-R-3 1587 A109 EGPI A1-31C 77 1036 NA ESNTL A1-31D A1-31D-W10-K1 1605 P297 KIRSTD11-24 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)1 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)2 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1-31D A1-31D-W6-K(AD)3 1587 C490 6924-34460 A1-31D 77 1036 NA ESNTL A1	AI-31C	AI-31C-CW19-KTD2	1587	A160	700-NT200-A1	AI-31C				
Al-31C Al-31C-CW6-K(AC)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31D-DW10-K1 1605 P297 KHS17DII-24 Al-31D 77 1036 NA	AI-31C	AI-31C-CW20-K4	1587	S345	8501-GD0-26	AI-31C	77			
Al-31C Al-31C-CW6-K(AC)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW6-K(AC)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-RA-3 1587 A109 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 A109 EGPI Al-31C 77 1036 NA ESNTL	AI-31C	AI-31C-CW6-K(AC)1	1587	C490	6924-34460					
Al-31C Al-31C-CW6-K(AC)3 1587 C490 6924-34460 Al-31C 77 1936 NA ESNTL Al-31C Al-31C-CW6-K(AC)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-IR-3 1587 A109 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNT	AI-31C	AI-31C-CW6-K(AC)2	1587	C490	6924-34460	AI-31C				
Al-31C Al-31C-CW6-K(AC)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)1 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-3 1587 A109 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-BU6-K 1587 A109 EGPI Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL	AI-31C	AI-31C-CW6-K(AC)3	1587	C490	6924-34460					
Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-KY-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-KY-K(CD)4 1587 Al09 EGPl Al-31C 77 1036 NA ESNTL Al-31C Al-31C-KY-K(CD)4 1587 Al09 EGPl Al-31C 77 1036 NA ESNTL Al-31C Al-31C-KY-K(CD)4 1587 Al09 EGPl Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW10-K1 1605 P297 KHS17D11-24 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-3/SIAS 3650 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL AC-DC-1 B/94-3/SIAS 4569 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL B/PC-742-2 B/PC-742-1 9841 S382 12N6BB4NXC1AJTTX6 16WN-14N6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJTTX6 16WN-14N6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y-1 9829 G080 12HFA151A2H AC-DC-1 77 1036 Al-40B-01 ESNTL CB-1,2,3 B/PIA-102Y-1 9829 G080 12HFA151A2H AC-DC-1 77 1036 Al-40B-01 ESNTL CB-1,2,3 B/PIA-102Y-1 9829 G080 12HFA151A2H AC-DC-1 77 1036 B/PIA-02Y-1 9829 G080 12HFA151A2H AC-DC-1 77 1036 B/PIA-02Y-2 9829 G080 12HFA151A2H AC-DC-1 77 1036 B/PIA-002Y-1 9829 G080 12HFA151A2H AC-DC-1 77 1036 B/PIA-002Y-1 9829 G080 12HFA151A2H AC-DC-1 77 103	AI-31C	AI-31C-CW6-K(AC)4	1587	C490	6924-34460	AI-31C				
Al-31C Al-31C-W7-K(CD)2 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-W7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-W7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-W7-K(CD)4 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-3 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-4 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW0-K1 1605 P297 KHS17D11-24 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-W6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-ISIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-ISIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL Al-44 B/94-3/NIAS 4369 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL Al-44 B/94-3/NIAS 4368 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL Al-44 B/94-3/NIAS 4368 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-1 B/PC-742-2 9841 S382 12N6BB4NXC1AJITTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJITTX6 16WN-14N6D 59 1012 NA ESNTL CB-1_3 B/PL-102Y-1 9829 S185 9223-30-E CB-1-2-3 77 1036 Al-40B-01 DCA AC-DC-1 B/PLA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL	AI-31C	AI-31C-CW7-K(CD)1	1587	C490	6924-34460	AI-31C	77			
Al-31C Al-31C-CW7-K(CD)3 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-CW7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-4 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-4 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-VSIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 NA ESNTL CB-4 AUX B/94-VSIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AL-31D B/94-A/SIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AL-31D B/94-A/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-0 ESNTL AL-31D B/94-A/SIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL AL-31D B/94-A/SIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-1 B/94-A/SIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-1 B/94-A/SIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-1 B/94-A/SIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14WN-14N6D 59 1012 NA ESNTL CB-1_2_3 B/PL-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PLA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 DCA ESNTL B/PC-742-2 B/PL-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PL-902 ESNTL B/PL-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PL-902 ESNTL B/PL-902 ESNTL	AI-31C	AI-31C-CW7-K(CD)2	1587	C490	6924-34460	AI-31C	77			
Al-31C Al-31C-W7-K(CD)4 1587 C490 6924-34460 Al-31C 77 1036 NA ESNTL Al-31C Al-31C Al-31C-R-3 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31C Al-31C-R-4 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW10-K1 1605 P297 KHS17D11-24 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-I/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-3/SIAS 5650 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AC-DC-1 B/94-3/SIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/94-3/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/P1A-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/P1A-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/P1A-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/P1A-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/P1A-102Y-2 9829 G080 12	AI-31C	AI-31C-CW7-K(CD)3	1587	C490	6924-34460	AI-31C		1036		
Al-31C Al-31C-IR-3 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31C Al-31C Al-31C-IR-4 1587 Al09 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW10-K1 1605 P297 KHS17D11-24 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 NA ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-3/VIAS 4509 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AC-DC-1 B/94-3/VIAS 4509 G080 12HFA51A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AL-44 B/94-3/VIAS 41568 G080 12HFA51A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AL-44 B/94-3/VIAS 41568 G080 12HFA51A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJTTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJTTX6 16WN-14N6D 59 1012 NA ESNTL CB-1_2_3 B/PL-102Y 9829 G080 12HFA51A2H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PL-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PLA-102Y-2 9829 G080 12HFA51A9H AC-DC-1 77 1036 B/PLA-902 ESNTL B/PC-902 B/PLA-902 9800 D989 BB101A	AI-31C	AI-31C-CW7-K(CD)4	1587	C490	6924-34460	AI-31C	77	1036		
Al-31C Al-31C-IR-4 1587 A109 EGPI Al-31C 77 1036 NA ESNTL Al-31D Al-31D-DW10-K1 1605 P297 KHS17D11-24 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL Al-44 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL Al-44 B/94-3/VIAS 41568 G080 12HFA151A2H AL-44 77 1036 Al-41B-12 ESNTL AL-44 B/94-3/VIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL B/PC-742-1 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PIA-008-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PIA-008-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PIA-008-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PIA-008-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 B/PIA-008-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 BB00 D089 BB001AJTX10 CB-4 77 1036 B/PIA-008-01 ESNTL AC-DC-1 B/PIA-102Y-2 9820 BB00 D089 BB001AJTX10 CB	AI-31C	AI-31C-IR-3	1587	A109	EGPI	AI-31C	77	1036	NA	
Al-31D Al-31D-DW10-K1 1605 P297 KHS17D11-24 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)1 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX By94-l/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX By94-2/SIAS 43409 G080 12HFA51A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AC-DC-1 By94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AL-44 By94-3/VIAS 41568 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL AC-DC-1 By94-3/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL ByPC-742-1 ByPC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL CB-12,3 ByPL-102Y 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 DCA AC-DC-1 ByP1-102Y 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 ByP1-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 ByP1-002 ESNTL	AI-31C	AI-31C-IR-4	1587	A109	EGPI	AI-31C	77	1036		
Al-31D Al-31D-DW6-K(AD)2 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)3 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-2/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AL-44 B/94-3/VIAS 41568 G080 12HFA151A2H AL-44 77 1036 Al-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-10 ESNTL AC-DC-1 B/9C-742-1 B/9C-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 Al-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL	AI-31D	AI-31D-DW10-K1	1605	P297	KHS17D11-24	AI-31D	77	1036		
AI-31D AI-31D-DW6-K(AD)2 1587 C490 6924-34460 AI-31D 77 1036 NA ESNTL AI-31D AI-31D-DW6-K(AD)3 1587 C490 6924-34460 AI-31D 77 1036 NA ESNTL AI-31D AI-31D-DW6-K(AD)4 1587 C490 6924-34460 AI-31D 77 1036 NA ESNTL CB-4 AUX B/94-I/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 AI-41B-03 ESNTL CB-4 AUX B/94-2/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 AI-41B-03 ESNTL CB-4 AUX B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-12 ESNTL AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AI-44 77 1036 AI-41B-12 ESNTL AI-44 B/94-3/VIAS 41568 G080 12HFA151A2H AI-44 77 1036 AI-41B-12 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14WN-14N6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AI-31D	AI-31D-DW6-K(AD)1	1587	C490	6924-34460	AI-31D	77	1036	NA	ESNTL
AI-31D AI-31D-DW6-K(AD)3 1587 C490 6924-34460 AI-31D 77 1036 NA ESNTI. AI-31D AI-31D-DW6-K(AD)4 1587 C490 6924-34460 AI-31D 77 1036 NA ESNTI. CB-4 AUX B/94-I/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 AI-41B-03 ESNTI. CB-4 AUX B/94-2/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 AI-41B-03 ESNTI. AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-12 ESNTI. AI-44 B/94-3/VIAS 41568 G080 12HFA151A2H AI-44 77 1036 AI-41B-10 ESNTI. AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-10 ESNTI. B/PC-742-1 B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16W'N-14N'6D 59 1012 NA ESNTI. B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14W'N-14N'6D 59 1012 NA ESNTI. CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTI. AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTI. AC-DC-1 B/PIA-102Y-2 9829 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTI.	AI-31D	AI-31D-DW6-K(AD)2	1587	C490	6924-34460	AI-31D	77	1036	NA	
Al-31D Al-31D-DW6-K(AD)4 1587 C490 6924-34460 Al-31D 77 1036 NA ESNTL CB-4 AUX B/94-1/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 Al-41B-03 ESNTL CB-4 AUX B/94-2/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 Al-41B-03 ESNTL AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL AC-DC-1 B/94-3/VIAS 41568 G080 12HFA151A2H Al-44 77 1036 Al-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL B/PC-742-1 B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTX6 16W'N-14N'6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTX6 14W'N-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 Al-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AI-31D	AI-31D-DW6-K(AD)3	1587	C490	6924-34460	AI-31D	77	1036	NA	
CB-4 AUX B/94-1/SIAS 43409 G080 12HFA51A42H CB-4 AUX 77 1036 A1-41B-03 ESNTL CB-4 AUX B/94-2/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 A1-41B-03 ESNTL AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 A1-41B-12 ESNTL AC-DC-1 B/94-3/VIAS 41568 G080 12HFA151A2H AI-44 77 1036 A1-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 A1-41B-10 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTX6 16W'N-14N'6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTX6 14W'N-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 A1-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 A1-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 A1-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AI-31D	AI-31D-DW6-K(AD)4	1587	C490	6924-34460	AI-31D	77	1036		
CB-4 AUX B/94-2/SIAS 43409 G080 12HFA151A2H CB-4 AUX 77 1036 AI-41B-03 ESNTL AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-12 ESNTL AI-44 B/94-3/VIAS 41568 G080 12HFA151A2H AI-44 77 1036 AI-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-10 ESNTL B/PC-742-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-10 ESNTL B/PC-742-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-10 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTX6 16WN-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1 - 2 - 3 77	CB-4 AUX	B/94-1/SIAS	43409	G080	12HFA51A42H	CB-4 AUX	77	1036	AI-41B-03	
AC-DC-1 B/94-3/SIAS 5650 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-12 ESNTL AI-44 B/94-3/VIAS 41568 G080 12HFA151A2H AI-44 77 1036 AI-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-12 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16W'N-14N'6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14W'N-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	CB-4 AUX	B/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	77	1036	AI-41B-03	ESNTL
Al-44 B/94-3/VIAS 41568 G080 12HFA151A2H Al-44 77 1036 Al-41B-10 ESNTL AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 Al-41B-12 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N'6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14WN-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 Al-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 Al-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AC-DC-1	B/94-3/SIAS	5650	G080	12HFA151A2H	AC-DC-1	77	1036	AI-41B-12	
AC-DC-1 B/94-4/SIAS 41673 G080 12HFA151A2H AC-DC-1 77 1036 AI-41B-12 ESNTL B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16W'N-14N'6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14W'N-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AI-44	B/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	77	1036		
B/PC-742-1 B/PC-742-1 9841 S382 12N6BB4NXC1AJJTTX6 16WN-14N'6D 59 1012 NA ESNTL B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 14W'N-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1 - 2 - 3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AC-DC-1	B/94-4/SIAS	41673	G080	12HFA151A2H	AC-DC-1	77	1036		
B/PC-742-2 B/PC-742-2 9841 S382 12N6BB4NXC!AJJTTX6 14W'N-14N'6D 59 1012 NA ESNTL CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1 - 2 - 3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	B/PC-742-1	B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	16W'N-14N'6D	59	1012	NA	
CB-1,2,3 B/PIA-102Y 9829 S185 9223-30-E CB-1 - 2 - 3 77 1036 AI-40B-01 DCA AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	B/PC-742-2	B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	14W'N-14N'6D	59			
AC-DC-1 B/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	CB-1,2,3	B/PIA-102Y	9829	S185	9223-30-E	CB-1 - 2 - 3	77	1036	AI-40B-01	
AC-DC-1 B/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40B-01 ESNTL CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AC-DC-1	B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	77	1036		
CB-4 B/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 B/PQ-902 ESNTL	AC-DC-1	B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	77			
		B/PIC-902	9800	D989	BB101AJTX10	CB-4				
CB-4 B/FIC-905 9800 D989 BBIDIAJIATU CB-4 77 1036 B/PO-905 ESNTL	CB-4	B/PIC-905	9800	D989	BB101AJTX10	CB-4	77	1036	B/PQ-905	ESNTL

CB-4 AUX	BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
Al-66B BRC-24/AFWS 16143 GB90 12HFA51A22H Al-66B 77 1036 Al-41B-04 ESNIL	CB-4 AUX	B/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40B-03	ESNTL.
Al-66B BRC-2MAFWS 16143 G080 121H-AS1A42*H Al-66B 77 1036 Al-11B-04 ESNIL	CB-4 AUX	B/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40B-03	
Al-66B BIRC-2BIAFWS 16145 G000 12HFA51A22H Al-66B 77 1036 Al-41B-04 ESNIL Al-66B BIRC-2BIAFWS 16145 G000 12HFA51A22H Al-66B 77 1036 Al-41B-04 ESNIL Al-66B BIRC-2BIAFWS 16145 G000 12HFA51A22H Al-66B 77 1036 Al-41B-04 ESNIL Al-66B BIRC-2BIAFWS 16145 G000 12HFA51A22H Al-66B 77 1036 Al-41B-04 ESNIL Al-66B BIRC-2BIAFWS 16145 G000 12HFA51A22H Al-66B 77 1036 Al-41B-04 ESNIL CPC-742-1 CPC-742-2 9841 S382 12K6BBBNNC1AJITTK6 6WP-14N6D 59 1012 NA ESNIL CB-1_2_3 CPR-102Y 9829 S185 922-310-E CB-1-2-3 77 1036 Al-40C-01 DCA AC-DC-1 CPR-102Y-1 9829 G000 12HFA51A97H AC-DC-1 77 1036 Al-40C-01 ESNIL CB-1_4 CPR-002 9800 D989 BB101ATX1D CB-4 AC-DC-1 77 1036 CPQ-902 ESNIL CB-4 CPR-005 9800 D989 BB101ATX1D CB-4 AT 1036 CPQ-902 ESNIL CB-4 AUX CPRC-03 9800 D989 BB101ATX1D CB-4 AUX 77 1036 Al-40C-05 ESNIL CB-4 AUX CPRC-03 9800 G000 12HFA51A97H CB-4 AUX 77 1036 Al-40C-05 ESNIL CB-4 AUX CPRC-03 9800 G000 12HFA51A97H CB-4 AUX 77 1036 Al-40C-05 ESNIL CB-4 AUX CPRC-03 9800 G000 12HFA51A97H CB-4 AUX 77 1036 Al-40C-05 ESNIL CB-4 AUX CPRC-03 9800 G000 12HFA51A97H CB-4 AUX 77 1036 Al-40C-05 ESNIL CB-4 AUX CPRC-03 9800 G000 12HFA51A97H CB-4 AUX 77 1036 Al-40C-05 ESNIL CB-4 AUX CPRC-03 9800 CPRC-03 CRI20A26241 AL-179 57 1036 Al-40C-05 ESNIL Al-190 CRIAVA66 21846 T265 RLY-751 VA-46B T2 T3 T3 T3 T3 T3 T3 T3	AI-66B	B/RC-2A/AFWS	16143	G080	12HFA51A42H	Al-66B	77	1036		
Al-66B BI/RC-2A/AFWS 16143 G080 12HFA515A22H Al-66B 77 1036 Al-41B-04 ESNIL	AI-66B	B/RC-2B/AFWS	16145	G080	12HFA151A2H	Al-66B		1036		
Al-66B	AI-66B	B1/RC-2A/AFWS	16143	G080	12HFA51A42H	Al-66B	77			
CPC-742-1 CPC-742-1 9841 S382 L2N6BBANXCIAJITTX6 6WP-14N6D 59 1012 NA ESNIL CPC-742-2 CPC-742-2 9841 S382 L2N6BBANXCIAJITTX6 4WP-14N8D 59 1012 NA ESNIL CPC-742-2 CPC-742-2 9841 S382 L2N6BBANXCIAJITTX6 4WP-14N8D 59 1012 NA ESNIL CPC-742-1 CPC-742-1 CPC-742-2 S829 G080 L2HEA151A9H AC-DC-1 77 1036 A1-40C-01 ESNIL CPC-742-2 CPC-742-2 S829 G080 D899 BB101ATX10 CPC-742-1 CPC-742-2 CPC-742-	AI-66B	B1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	77	1036		
CPC-742-2 CPC-742-2 9841 SS82 LNN6BBANXCLAJITIX6 4WP-14NeD 59 1012 NA ESNIL CB-1.2.3 CPIA-102Y 9829 G880 12HFA15IA9H AC-DC-1 77 1036 Al-40C-01 ESNIL AC-DC-1 CPIA-102Y-2 9829 G080 12HFA15IA9H AC-DC-1 77 1036 Al-40C-01 ESNIL CB-4 CPIC-902 9800 D989 BBI01ATTX10 CB-4 77 1036 CPC-902 ESNIL CB-4 CPIC-905 9800 D989 BBI01ATTX10 CB-4 77 1036 CPC-905 ESNIL CB-4 AUX CPIC-B3 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AL-0C-05 ESNIL CB-4 AUX CPIC-B3 9800 G080 12HFA15149H CB-4 AUX 77 1036 AL-0C-05 ESNIL CB-4 AUX CPIC-B3 9800 G080 12HFA15149H CB-4 AUX 77 1036 AL-0C-05	C/PC-742-1	C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	6W'P-14N'6D	59	1012		
CR-1_2_3	C/PC-742-2	C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	4W'P-14N'6D	59	1012	NA	
AC-DC-1	CB-1,2,3	C/PIA-102Y	9829	S185	9223-30-E	CB-1 - 2 - 3	77	1036	AI-40C-01	
AC-DC-1 CPIA-102Y-2 9829 G080 L2HFA151A9H AC-DC-1 77 1036 A1-40C-01 ESNIT CB-4 C/PIC-902 9800 D989 BBI01AJTX10 CB-4 77 1036 C/PQ-902 ESNIT CB-4 AUX C/PIC-A3 9800 G080 L2HFA151A9H CB-4 AUX 77 1036 A1-40C-05 ESNIT CB-4 AUX C/PIC-A3 9800 G080 L2HFA151A9H CB-4 AUX 77 1036 A1-40C-05 ESNIT CB-4 AUX C/PIC-A3 9800 G080 L2HFA151A9H CB-4 AUX 77 1036 A1-40C-05 ESNIT VA-46A CR1/VA46A L21846 T265 RLY-751 VA-46A 72 1036 MCC-3B1 ESNIT VA-46B CR1/VA46B L21846 T265 RLY-751 VA-46B 72 1036 MCC-3B1 ESNIT VA-46B CR1/VA46B L21846 T265 RLY-751 VA-46B 72 1036 MCC-3B1 ESNIT VA-46B CR1/VA46B L21846 T265 RLY-751 VA-46B 72 1036 MCC-3B1 ESNIT VA-46B CR1/VA46B L21846 T265 RLY-751 VA-46B 72 1036 MCC-3B1 ESNIT VA-46B CR1/VA46B L21846 T265 RLY-751 VA-46B 72 1036 MCC-3B1 ESNIT DIPC-742-1 DIPC-742-1 9841 S382 L2N6BBHNCLAJITIX6 8WN-16N6D 59 1012 NA ESNIT DIPC-742-2 DIPC-742-1 9841 S382 L2N6BBHNCLAJITIX6 8WN-16N6D 59 1012 NA ESNIT DIPC-742-2 DIPL-102Y 9829 G080 L2HFA151A9H AC-DC-1 77 1036 A1-40D-01 ESNIT CB-1 DIPL-102Y-2 9829 G080 L2HFA151A9H AC-DC-1 77 1036 A1-40D-01 ESNIT CB-4 DIPL-902 9800 D989 BBI01AJIX10 CB-4 77 1036 A1-40D-01 ESNIT CB-4 DIPL-905 9800 D989 BBI01AJIX10 CB-4 77 1036 A1-40D-05 ESNIT CB-4 DIPL-905 9800 D989 BBI01AJIX10 CB-4 77 1036 A1-40D-05 ESNIT CB-4 DIPL-905 9800 D989 BBI01AJIX10 CB-4 AUX 77 1036 A1-40D-05 ESNIT CB-4 DIPL-905 9800 G080 L2HFA151A9H CB-4 AUX 77 1036 A1-40D-05 ESNIT CB-4 DIPL-905 9800 G080 L2HFA151A9H CB-4 AUX 77 1036 A1-40D-05 ESNIT CB-4 DIPL-905 9800 G080 L2HFA151A9H CB-4 AUX 77 1036 A1-40D-05 ESNIT CB-4 AUX DIPL-905 ADATO	AC-DC-1	C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	77	1036	AI-40C-01	
CB-4 CPIC-902 9800 D989 BBI01AITX10 CB-4 77 1036 C/PQ-902 ESNTL CB-4 CPIC-905 9800 D989 BBI01AITX10 CB-4 77 1036 C/PQ-905 ESNTL CB-4 AUX CPIC-B3 9800 G080 12HFA151A9H CB-4 AUX 77 1036 A1-40C-05 ESNTL VA-46A CRIVA46A 21846 T265 RLY-751 VA-46B 72 1036 MC-3BI ESNTL Al-179 CSX-A1045A 21846 T265 RLY-751 VA-46B 72 1036 MC-4A1 ESNTL Al-179 CSX-A1045A 21843 G080 CR120A26241 Al-179 57 1013 EE-8G-17 ESNTL Al-179 CSX-A1045A 21846 T265 RLY-751 VA-46B 72 1036 A1-40C-05 ESNTL Al-179 CSX-A1045A 21846 T265 RLY-751 VA-46B 72 1036 A1-40C-05 ESNTL <td>AC-DC-1</td> <td>C/PIA-102Y-2</td> <td>9829</td> <td>G080</td> <td>12HFA151A9H</td> <td>AC-DC-1</td> <td>77</td> <td>1036</td> <td>AI-40C-01</td> <td></td>	AC-DC-1	C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	77	1036	AI-40C-01	
CB-4 C/PIC-905 9800 D989 BBI0IAITX10 CB-4 77 1036 C/PQ-905 ESNTL CB-4 AUX C/PIC-A3 9800 G080 12HFA151A9H CB-4 AUX 77 1036 A1-40C-05 ESNTL CB-4 AUX C/PIC-B3 9800 G080 12HFA151A9H CB-4 AUX 77 1036 A1-40C-05 ESNTL VA-46A CRIVA46A 21846 T265 RLY-751 VA-46B 72 1036 MCC-4a1 ESNTL VA-46B CRIVA46B 21846 T265 RLY-751 VA-46B 72 1036 MCC-4a1 ESNTL Al-179 CSX-A7104SA 21423 G060 CR120A26241 A1-179 57 1013 EE-8G-17 ESNTL DPC-742-1 D9FC-742-1 9841 S382 12N6BBNXC1AJITTX6 6WP-14N'6D 59 1012 NA ESNTL CB-1,23 D/PIA-102Y-1 9829 S185 9223-30-E CB-1 -2-3 77 1036 A1-40D-01	CB-4	C/PIC-902	9800	D989	BB101AJTX10	CB-4	77	1036		
CB-4 AUX C/PIC-A3 9800 G080 12HFA151A9H CB-4 AUX 77 1036 A1-0C-05 ESNTL	CB-4	C/PIC-905	9800	D989	BB101AJTX10	CB-4	77	1036		
CFF	CB-4 AUX	C/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX	77	1036		
VA-46B	CB-4 AUX	C/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40C-05	
VA-46B CRI/VA46B 21846 T265 RLY-751 VA-46B 72 1036 MCC-4A1 ESNTL Al-179 CSX-A/1045A 21423 G0E0 CRI20A2641 Al-179 57 1013 EE-8c-17 ESNTL D/PC-742-1 DPC-742-1 9841 S382 12N6BBANXCIAJITIX6 8WN-16N5D 59 1012 NA ESNTL D/PC-742-2 D/PC-742-2 9841 S382 12N6BBANXCIAJITIX6 6WP-14N6D 59 1012 NA ESNTL CB-1,2,3 D/PLA-102Y 9829 S185 9223-30-E CB-1 -2 -3 77 1036 Al-40D-01 DCA AC-DC-1 D/PIA-102Y-1 9829 G080 12HEA151A9H AC-DC-1 77 1036 Al-40D-01 ESNTL CB-4 D/PIC-102Y-2 9829 G080 12HEA151A9H AC-DC-1 77 1036 DI-40-01 ESNTL CB-4 D/PIC-902 9800 D989 BB101ATX10 CB-4 77 1036 D/PQ-	VA-46A	CRI/VA46A	21846	T265	RLY-751	VA-46A	72	1036	MCC-3B1	
Al-179 CSX-A/1045A 21423 G080 CR120A26241 Al-179 57 1013 EE-8G-17 ESNTL D/PC-742-1 D/PC-742-1 9841 5382 12N6B4NXC1AJJTTX6 8WN-16N'6D 59 1012 NA ESNTL D/PC-742-2 D/PC-742-2 9841 S382 12N6B4NXC1AJJTTX6 6WP-14N'6D 59 1012 NA ESNTL CB-1,2,3 D/PLA-102Y 9829 S185 9223-30-E CB-1-2-3 77 1036 Al-40D-01 D/CA AC-DC-1 D/PLA-102Y-1 9829 G080 12HEA151A9H AC-DC-1 77 1036 Al-40D-01 ESNTL AC-DC-1 D/PLA-102Y-2 9829 G080 12HEA151A9H AC-DC-1 77 1036 Al-40D-01 ESNTL CB-4 D/PLC-902 9800 D989 BB101AJTX10 CB-4 77 1036 Al-40D-01 ESNTL CB-4 AUX D/PLC-905 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-902 ESNTL CB-4 AUX D/PLC-44 9800 G080 12HEA151A9H CB-4 AUX 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PLC-84 9800 G080 12HEA151A9H CB-4 AUX 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PLC-84 9800 G080 12HEA151A9H CB-4 AUX 77 1036 Al-40D-05 ESNTL CB-4 AUX D/PLC-84 9800 G080 12HEA151A9H CB-4 AUX 77 1036 Al-40D-05 ESNTL D1 D1-112 17397 G080 WB152 D-1 57 1019 NA ESNTL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA D/CA D1 D1-21-103B 17397 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-103B 17397 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-103B 17397 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX 17396 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX 17396 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX 17396 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX 17396 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX 17396 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX 17396 P297 KAP1DG D-1 57 1019 NA ESNTL D1 D1-21-104ELX	VA-46B	CRI/VA46B	21846	T265	RLY-751	VA-46B	72	1036	MCC-4A1	
DPC-742-1 DPC-742-1 9841 S382 12N6BB4NXC1AJITTX6 8W'N-16N'6D 59 1012 NA ESNTL	AI-179	CSX-A/1045A	21423	G080	CR120A26241	AI-179	57	1013	EE-8G-17	
DPC-742-2 DPC-742-2 9841 S382 12N6BB4NXC1AJITIX6 6WP-14N6D 59 1012 NA ESNTL	D/PC-742-1	D/PC-742-I	9841	S382	12N6BB4NXC1AJJTTX6	8W'N-16N'6D	59	1012	NA	
AC-DC-1 D/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 A1-40D-01 ESNTL AC-DC-1 D/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 A1-40D-01 ESNTL CB-4 D/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-902 ESNTL CB-4 D/PIC-905 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PIC-A4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 A1-40D-05 ESNTL CB-4 AUX D/PIC-B4 9800 G080 VB152 D-1 57 1019 NA ESNTL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D1 63 1010 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D-1 57 1019 NA ESNTL D1 D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG	D/PC-742-2	D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	6W'P-14N'6D	59	1012	NA	
AC-DC-1 D/PIA-102Y-1 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40D-01 ESNTL AC-DC-1 D/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 77 1036 AI-40D-01 ESNTL CB-4 D/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-902 ESNTL CB-4 D/PIC-905 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PIC-A4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1-178-42FP 17397 C770 6002H336B D1 63 1007 NA DCA D1-178-42FP 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42FP 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D1 63 1010 NA ESNTL D1 D1-21-103A 17397 P297 KAP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P	CB-1,2,3	D/PIA-102Y	9829	S185	9223-30-E	CB-1 - 2 - 3	77	1036	AI-40D-01	DCA
CB-4 D/PIC-902 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-902 ESNTIL CB-4 D/PIC-905 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-905 ESNTIL CB-4 AUX D/PIC-A4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTIL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTIL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTIL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 C770 6002H336B D1 63 1007 NA DCA D1	AC-DC-1	D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	77	1036	AI-40D-01	
CB-4 D/PIC-905 9800 D989 BBI01AJTX10 CB-4 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PIC-A4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KRP11DG D1 63 1010 NA DCA D1 D1-21-103A </td <td>AC-DC-1</td> <td>D/PIA-102Y-2</td> <td>9829</td> <td>G080</td> <td>12HFA151A9H</td> <td>AC-DC-1</td> <td>77</td> <td>1036</td> <td>AI-40D-01</td> <td>ESNTL</td>	AC-DC-1	D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	77	1036	AI-40D-01	ESNTL
CB-4 D/PIC-905 9800 D989 BB101AJTX10 CB-4 77 1036 D/PQ-905 ESNTL CB-4 AUX D/PIC-A4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18-42EPP 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18-4-103	CB-4	D/PIC-902	9800	D989	BB101AJTX10	CB-4	77	1036	D/PQ-902	ESNTL
CB-4 AUX D/PIC-A4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTIL CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 AI-40D-05 ESNTIL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTIL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42FP 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D1 63 1007 NA DCA D1 D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX	CB-4	D/PIC-905	9800	D989	BB101AJTX10	CB-4	77	1036	D/PQ-905	
CB-4 AUX D/PIC-B4 9800 G080 12HFA151A9H CB-4 AUX 77 1036 A1-40D-05 ESNTIL D1 D1-112 17397 G080 VB152 D-1 57 1019 NA ESNTIL D1 D1-178-42BPM1 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-178-42BPM2 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D1 63 1007 NA DCA D1 D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397	CB-4 AUX	D/PIC-A4	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40D-05	
DI D1-178-42BPM1 17397 C770 6002H336B DI 63 1007 NA DCA DI D1-178-42BPM2 17397 C770 6002H336B DI 63 1007 NA DCA DI D1-178-42FP 17397 C770 6002H336B DI 63 1007 NA DCA DI D1-18A-103CX 17397 P297 KAP11DG DI 63 1007 NA DCA DI D1-21-103A 17397 P297 KRP14DG D-I 57 1019 NA ESNTL DI D1-21-103B 17397 P297 KRP14DG D-I 57 1019 NA ESNTL DI D1-21-103BX 17397 P297 KRP14DG D-I 57 1019 NA ESNTL DI D1-21-104E1 17396 P297 KRP14DG D-I 57 1019 NA ESNTL DI D1-21-104E1X 17396 P	CB-4 AUX	D/PIC-B4	9800	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40D-05	ESNTL
DI D1-178-42BPM2 17397 C770 6002H336B DI 63 1007 NA DCA DI D1-178-42FP 17397 C770 6002H336B DI 63 1007 NA DCA DI D1-18A-103CX 17397 P297 KAP11DG DI 63 1010 NA DCA DI D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-112	17397	G080	VB152	D-1	57	1019	NA	ESNTL
D1 D1-178-42FP 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D1 63 1010 NA DCA D1 D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-178-42BPM1	17397	C770	6002H336B	DI	63	1007	NA	DCA
D1 D1-178-42FP 17397 C770 6002H336B D1 63 1007 NA DCA D1 D1-18A-103CX 17397 P297 KAP11DG D1 63 1010 NA DCA D1 D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103EX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-178-42BPM2	17397	C770	6002H336B	DI	63	1007	NA	DCA
DI D1-18A-103CX 17397 P297 KAP11DG DI 63 1010 NA DCA DI D1-21-103A 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-178-42FP	17397	C770	6002H336B	DI	63	1007	NA	
DI D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-18A-103CX	17397	P297	KAPHDG	DI	63	1010	NA	
DI D1-21-103B 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL DI D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-21-103A	17397	P297	KRP14DG	D-1	57	1019	NA	
DI D1-21-103BX 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-21-103B	17397	P297	KRP14DG	D-1	57	1019	NA	
D1 D1-21-103C 17397 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-21-103BX	17397	P297	KRP14DG	D-I	57	1019	NA	
D1 D1-21-104E1 17396 P297 KRP14DG D-1 57 1019 NA ESNTL D1 D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	D1	D1-21-103C	17397	P297	KRP14DG	D-1	57	1019	NA	
DI D1-21-104E1X 17396 P297 KRP14DG D-1 57 1019 NA ESNTL	DI	D1-21-104E1	17396	P297	KRP14DG	D-1	57	1019		
	DI	D1-21-104E1X	17396	P297	KRP14DG	D-1	57			
D1 D1-61-109L6 11370 1671 RR119LO D1 3/ 1019 NA FSN11	DI	D1-21-104E2	17396	P297	KRP14DG	D-1	57	1019	NA	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
DI	D1-21-104E2X	17396	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-104N	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-104NX	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-105	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-105X	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-112X1	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
Di	D1-21-127E1	17396	P297	KRP14DG	D-I	57	1019	NA	ESNTL
DI	D1-21-127E2	17398	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-PS7X2	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
Di	D1-21-PS9X	17397	P297	KRP14DG	D-1	57	1019	NA	ESNTL
DI	D1-21-TDSTX	17397	P297	KRF14DG	D-I	57	1019	NA	ESNTL
DI	D1-44-SV1X	17396	C770	1060	AI-133A	63	1007	NA	ESNTL
DI	D1-45-SV2X	17396	C770	1060	Al-133A	63	1007	NA	ESNTL
AI-133A	D1-46-TDL	17397	A109	2412PD	AI-133A	63	1007	NA	ESNTL
DI	D1-46-TDL	17397	A109	2412PD	AI-133A	63	1607	NA	ESNTL
DI	D1-47-TDSF	17397	A109	2412PD	Al-133A	63	1907	NA	ESNTL
DI	D1-49-TDS1	17396	A109	2412PC	AI-133A	63	1007	NA	ESNTL
DI	D1-50-TDS2	17396	A109	2412PC	AI-133A	63	1007	NA	ESNTL
AI-133A	D1-52-TDSR	17397	A109	2412PD	AI-133A	63	1007	NA	ESNTL
DI	D1-52-TDSR	17397	A109	2412PD	AI-133A	63	1007	NA	ESNTL
DI	D1-66-42BPM1	17410	C770	A10CNO	AI-133A	63	1007	NA	DCA
DI	D1-66-42BPM1	17397	C770	A10CN0	DI	63	1007	NA	ESNTL
DI	D1-66-42BPM1	17410	C770	A10CNO	DI	63	1007	NA	DCA
DI	D1-67-42BPM2	17410	C770	A10CNO	DI	63	1007	NA	DCA
DI	D1-67-42BPM2	17397	C770	A10CN0	DI	63	1007	NA	ESNTL
D1	D1-67-42BPM2	17410	C776	A10CNO	AI-133A	63	1007	NA	DCA
Di	D1-68-42FP	17397	S972	77U32	DI	63	1007	NA	ESNTL
DI	D1-68-42FP	17411	S972	77U32	Di	63	1007	NA	DCA
D1	D1-68-42FP	17411	S972	77U32	AI-133A	63	1007	NA	DCA
D2	D2-112	17397	G080	VB152	D-2	57	1019	NA	ESNTL
D2	D2-178-42BPM1	17397	C770	6002rl336B	D2	64	1007	NA	DCA
D2	D2-178-42BPM2	17397	C770	6002H336B	D2	64	1007	NA	DCA
D2	D2-178-42FP	17397	C770	6002H336B	D2	64	1007	NA	DCA
D2	D2-18A-103CX	17397	P297	KAPIIDG	D2	64	1010	NA	DCA
D2	D2-21-103A	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-103B	17397	P297	KRP14DG	D-2	. 57	1019	NA	ESNTL
D2	D2-21-103BX	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-103C	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-104E1	17396	P297	KRP14DG	D-2	57	1019	NA	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
D2	D2-21-104E1X	17396	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-104E2	17396	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-104E2X	17396	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-104N	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-104NX	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-105	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-105X	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-112X1	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-127E1	17396	P297	KRP14DG	D-2	57	1019	NA	ESNTL
DI	D2-21-127E2	17398	P297	KRP14DG	D-2	57	1019	NA	ESNTL.
D2	D2-21-127E2	17398	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-PS7X2	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-PS9X	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-21-TDSTX	17397	P297	KRP14DG	D-2	57	1019	NA	ESNTL
D2	D2-44-SV1X	17396	C770	1060	AI-133B	64	1007	NA	ESNTL
D2	D2-45-SV2X	17396	C770	1060	AI-133B	64	1007	NA	ESNIL
AI-133B	D2-46-TDL	17397	A109	2412PD	AI-133B	64	1007	NA	ESNTL
D2	D2-46-TDL	17397	A109	2412PD	AI-133B	64	1007	NA	ESNTL
D2	D2-47-TDSF	17397	A109	2412PD	AI-133B	64	1007	NA	ESNTL
D2	D2-49-TDS1	17396	A109	2412PC	AI-133B	64	1007	NA	ESNTL.
D2	D2-50-TDS2	17396	A109	2412PC	A!-133B	64	1007	NA	ESNTL
AI-133B	D2-52-TDSR	17397	A109	2412PC	AI-133B	64	1007	NA.	ESNTL
D2	D2-52-TDSR	17397	A109	2412PC	AI-133B	64	1007	NA	ESNTL
D2	D2-66-42BPM1	17397	C770	A10CN0	D2	64	1007	NA	ESNTL
D2	D2-66-42BPM1	17410	C770	A10CNO	AI-133A	63	1007	NA	DCA
D2	D2-67-42BPM2	17410	C770	A10CNO	D2	64	1007	NA	DCA
D2	D2-67-42BPM2	17397	C770	A10CN0	D2	64	1007	NA	ESNTL.
D2	P2-57-42BPM2	17410	C770	A10CNO	AI-133B	64	1007	NA	DCA
D2	D2-68-42FP	17397	S972	77U32	D2	64	1007	NA	ESNTL
GM-2	FC-416A	41269	G080	56-0330-AAAC1	GM-2	77	1036	AI-40A-01	DCA
GM-2	FC-417A	41269	G080	56-0330-AAAC1	GM-2	77	1036	AI-40B-01	DCA
GM-2	FC-418A	41269	G080	56-0330-AAAC1	GM-2	77	1036	A1-40C-01	DCA
GM-2	FC-419A	41269	G080	56-0330-AAAC1	GM-2	77	1036	AI-40D-01	DCA
FIA-2510	FIA-2510	22745	B440	1355-EHA9CFA1H	19W'P-30N'5D	60	1012	A1-42B-03	DCA
FIA-2511	FIA-2511	22745	B440	1355-EHA9CFA1H	19W'P-30N'5D	60	1012	AI-42B-03	DCA
CB-10,11	F1C-1368	37570	S185	9222-20E-VB-13M	CB-10 - 11	77	1036	AI-42A-05	DCA
AI-66B	FIC-1369	37570	S185	9222-30E	AI-66B	77	1036	AI-42B-08	DCA
AI-4B	LC-101-1	9513	R335	ET-222	AI-4B	77	1036	AI-40A-20	ESNTL
AI-4B	LC-101-2	9513	R335	ET-222	AI-4B	77	1036	AI-42A-07	ESNTL

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-4A	LC-101X	9513	F180	M/63U-ET-OHAR	Al-4A	77	1036	AI-40A-20	ESNTL.
AI-4B	LC-101Y	9513	F180	M/63U-ET-OHAR	AI-4B	77	1036	AI-40B-21	ESNTL
FO-2-1	LC-3418B	17410	G050	LS-1800	6E'K-13N'1A	63	1019	NA	DCA
FO-2-1	LC-3418C	17410	G050	LS-1800	6E'K-13N'1A	63	1019	NA	DCA
FO-2-2	LC-3419B	17410	G050	LS-1800	6E'K-2S'2B	64	1019	NA	DCA
FO-2-2	LC-3419C	17410	G050	LS-1800	6E'K-2S'2B	64	1019	NA	DCA
AI-4A	LCA-101X	9513	F180	CUSTOM 63U	AI-4A	77	1036	AI-40A-20	ESNTL
AI-4B	LCA-101Y	9513	F180	CUSTOM 63U	AI-4B	77	1036	AI-40B-21	ESNTL
FO-2-1	LCA-3418B	17410	G050	LS-1800	6E'K-13N'1A	63	1019	NA	DCA
FO-2-1	LCA-3418C	17410	G050	LS-1800	6E'K-13N'1A	63	1019	NA	DCA
FO-2-2	LCA-3419B	17410	G050	LS-1800	6E'K-2S'2B	64	1019	NA	DCA
FO-2-2	LCA-3419C	17410	G050	LS-1800	6E'K-2S'2B	64	1019	NA	DCA
LCS-218	LCS-218	9543	M040	A-103F-EP/VP-2X-TDN	43W'T-12N'7A	29	1019	AI-42B-09	DCA
AI-4A	LIC-101X	9513	S185	9223-11E	AI-4A	77	1036	AI-40A-20	ESNTL
AI-4B	LIC-161Y	9513	S185	9223-11E	Al-4B	77	1036	AI-40B-21	ESNTL
ATA-D1	LO/ATA-DI	41898	A610	906172C	2W'D-0N'IA	63	1013	MCC-3B1	DCA
ATA-D2	LO/ATA-D2	41898	A610	906172C	3W'D-0N'2A	64	1013	MCC-4A1	DCA
ATD-D1	LO/ATD-D1	22025	A610	906124C	7W'D-12N'1A	63	1013	DC-BUS-1# CB	DCA
ATD-D2	LO/ATD-D2	22025	A610	906124C	8W'D-0N'2A	64	1013	DC-BUS-2# CB	DCA
LS-2898	LS-2898	21846	F132	8-66	13W'J1-5N'7A	72	1036	AI-41A-12	DCA
LS-2899	LS-2899	21846	F132	8-66	13W'J1-6N'6D	72	1036	AI-41B-12	DCA
D2	LSH1/X	17410	P297	KRP14DG	D2	64	1010	NA	DCA
D2	LSH1/X	17410	P297	KRP14DG	DI	63	1010	NA	DCA
DI	LSH1/X	17410	P297	KRP14DG	D2	64	1010	NA	DCA
DI	LSH1/X	17410	P297	KRP14DG	DI	63	1010	NA	DCA
DI	LSH2/X1	17410	P297	KRP14DG	D2	64	1010	NA	DCA
DI	LSH2/X1	17410	P297	KRP14DG	DI	63	1010	NA	DCA
D2	LSH2/X1	17410	P297	KRP14DG	D2	64	1010	NA	DCA
D2	LSH2/X1	17410	P297	KRP14DG	DI	63	1010	NA	DCA
D2	LSL1/X	17410	P297	KRP14DG	DI	63	1010	NA	DCA
DI	LSL1/X	17410	P297	KRP14DG	DI	63	1010	NA	DCA
Di	LSL1/X	17410	P297	KRP14DG	D2	64	1010	NA	LACA.
D2	LSL1/X	17410	P297	KRP14DG	D2	64	1010	NA	DCA
DI	LSL2/X1	17410	P297	KRP14DG	D2	64	1010	NA	DCA
DI	LSL2/X1	17410	P297	KRP14DG	DI	63	1010	NA	DCA
D2	LSL2/X1	17410	P297	KRP14DG	Dl	63	1010	NA	DCA
D2	LSL2/X1	17410	P297	KRP14DG	D2	64	1010	NA	DCA
AC-12A CTR	M/AC-12A	43125	G080	CR106	AC-12A CTRL PANEL	INTK	994	MCC-3B3	DCA
AC-12A CTR	m/AC-12A	43125	E020	CYCLE FLEX	AC-12A CTRL PANEL	INTK	994	MCC-3B3	DCA
							73.		

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AC-12A CTR	M/AC-12A	43125	G080	CR106	MCC-3B3	INTK	994	MCC-3B3	DCA
AC-12A CTR	m/AC-12A	43125	E020	CYCLE FLEX	MCC-3B3	INTK	994	MCC-3B3	DCA
MCC-3B3	M/AC-12A	43125	G080	CR106	MCC-3B3	INTK	994	MCC-3B3	DCA
MCC-3B3	m/AC-12A	43125	E020	CYCLE FLEX	AC-12A CTRL PANEL	INTK	994	MCC-3B3	DCA
MCC-3B3	M/AC-12A	43125	G080	CR106	AC-12A CTRL PANEL	INTK	994	MCC-3B3	DCA
MCC-3B3	m/AC-12A	43125	E020	CYCLE FLEX	MCC-3B3	INTK	994	MCC-3B3	DCA
AC-12B CTR	m/AC-12B	43125	E020	CYCLE FLEX	MCC-4C4	INTK	994	MCC-4C4	DCA
AC-12B CTR	M/AC-12B	43125	G080	CR106	AC-12B CTRL PANEL	INTK	994	MCC-4C4	DCA
AC-12B CTR	M/AC-12B	43125	G080	CR106	MCC-4C4	INTK	994	MCC-4C4	DCA
AC-12B CTR	m/AC-12B	43125	E020	CYCLE FLEX	AC-12B CTRL PANEL	INTK	994	MCC-4C4	DCA
MCC-4C4	m/AC-12B	43125	E020	CYCLE FLEX	MCC-4C4	INTK	994	MCC-4C4	DCA
MCC-4C4	M/AC-12B	43125	G080	CR106	MCC-4C4	INTK	994	MCC-4C4	DCA
MCC-4C4	m/AC-12B	43125	E020	CYCLE FLEX	AC-12B CTRL PANEL	INTK	994	MCC-4C4	DCA
MCC-4C4	M/AC-12B	43125	G080	CR106	AC-12B CTRL PANEL	INTK	994	MCC-4C4	DCA
MCC-3C1	M/PCV-102-1	37777	G080	CR106	MCC-4B1	57	1013	MCC-4B1	ESNTL
MCC-4B1	M/PCV-102-2	37777	G080	CR106	MCC-3C1	57	1013	MCC-3C1	ESNTL
MCC-3A1	M/RC-4-HTRS-1	43399	G080	CR106	MCC-3A1	57	1013	MCC-3A1-B01	DCA
MCC-4C1	M/RC-4-HTRS-10	43402	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-4C1	M/RC-4-HTRS-11	43402	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-4C1	M/RC-4-HTRS-12	43402	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-3A1	M/RC-4-HTRS-2	43399	G080	CR106	MCC-3A1	57	1013	MCC-3A1-C01	DCA
MCC-3A1	M/RC-4-HTRS-3	43399	G080	CR106	MCC-3A1	57	1013	MCC-3A1-D01	DCA
MCC-4A1	Mc/HCV-1041C	21357	G080	CR106	MCC-4A1	57	1013	MCC-4A1	DCA
MCC-4C1	Mc/HCV-1042C	21357	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-4C1	Mc/HCV-1384	54553	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-3A1	Mc/HCV-1385	41890	G080	CR106	MCC-3A1	57	1013	MCC-3A1	DCA
MCC-4C1	Mc/HCV-1386	41890	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-3B1	Mc/HCV-150	41445	G080	CR106	MCC-3B1	57	1013	MCC-3B1	ESNTL
MCC-4A1	Mc/HCV-151	41445	G080	CR106	MCC-4A1	57	1013	MCC-4A1	ESNTL
MCC-4A2	Mc/HCV-258	41231	G080	CR106	MCC-4A2	26	1007	MCC-4A2	DCA
MCC-3C2	Mc/HCV-265	41231	G080	CR106	MCC-3C2	26	1007	MCC-3C2	DCA
MCC-3A2	Mc/LCV-218-2	41465	G080	CR106	MCC-3A2	4	989	MCC-3A2	DCA
MCC-3A2	Mc/LCV-218-3	1258	G080	CR106	MCC-3A2	4	989	MCC-3A2	DCA
VA-46A	MCI/VA46A	21846	T265	CTR-535	VA-46A	72	1036	MCC-3B1	ESNTL
VA-46B	MC1/VA46B	21846	T265	CTR-535	VA-46B	72	1036	MCC-4A1	ESNTL
MCC-3B1	Mf/VA-52A	41561	G080	CR106	MCC-3B1	. 57	1013	MCC-3B1	DCA
MCC-4A1	Mf/VA-52B	41561	G080	CR106	MCC-4A1	57	1013	MCC-4A1	DCA
MCC-4A1	Mo/HCV-1041C	21357	G080	CR106	MCC-4A1	57	1013	MCC-4A1	DCA
MCC-4C1	Mo/HCV-1042C	21357	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
MCC-4C1	Mo/HCV-1384	54553	G080	CR106	MCC-4C1	57	1013	MCC-4CI	ESNTL
MCC-3A1	Mo/HCV-1385	41890	G080	CR106	MCC-3A1	57	1013	MCC-3A1	DCA
MCC-4C1	Mo/HCV-1386	41890	G080	CR106	MCC-4C1	57	1013	MCC-4C1	DCA
MCC-3B1	Mo/HCV-150	41445	G080	CR106	MCC-3B1	57	1013	MCC-3B1	DCA
MCC-4A1	Mo/HCV-151	41445	G080	CR106	MCC-4A1	57	1013	MCC-4A1	DCA
MCC-4A2	Mo/HCV-258	41231	G080	CR106	MCC-4A2	26	1007	MCC-4A2	DCA
MCC-3C2	Mo/HCV-265	41231	G080	CR106	MCC-3C2	26	1007	MCC-3C2	DCA
MCC-3A2	Mo/LCV-218-2	41465	G080	CR106	MCC-3A2	4	989	MCC-3A2	DCA
MCC-3A2	Mo/LCV-218-3	1258	G080	CR106	MCC-3A2	4	989	MCC-3A2	ESNTL
MCC-3B1	Mr/VA-52A	41561	G080	CR106	MCC-3B1	57	1013	MCC-3B1	DCA
MCC-4A1	Mr/VA-52B	41561	G080	CR106	MCC-4A1	57	1013	MCC-4A1	DCA
VA-46A	MS1/VA46A	21846	T265	HTR-259	VA-46A	72	1036	NA	ESNTL
VA-46B	MS1/VA46B	21846	T265	HTR-259	VA-46B	72	1036	MCC-4A1	ESNTL
DG-1	PC-6026	17396	S382	6N-AA2-SPP	3E'K-8N'1A	63	1013	NA	DCA
DG-1	PC-6038	17396	S382	6NN-L5	0E'F-5N'1A	63	1009	NA	DCA
DG-1	PC-6039	17396	S382	6NN-L5	0E'F-11N'1A	63	1009	NA	DCA
DG-2	PC-6126	17396	S382	6N-AA2-SPP	3E'K-8S'2B	64	1013	NA	DCA
DG-2	PC-6138	17396	S382	6NN-L5	0E'F-10S'2B	64	1009	NA	DCA
DG-2	PC-6139	17396	S382	6NN-L5	0E'F-4S'2B	64	1009	NA	DCA
DG-1	PCA-3349	17397	E147	8362040	4E'K-6N'1A	63	1012	NA	DCA
DG-2	PCA-3350	17397	E147	8362040	4E'K-9S'2B	64	1012	NA	DCA
PCS-224	PCS-224	57294	B074	E1H-H15	50W'T-8N'6E	6	993	NA	ESNTL
PCS-226	PCS-226	57294	F180	43E	44WT-1N'6E	6	992	AI-40A-20	ESNTL
PCS-227	PCS-227	57291	B074	E1H-H15	35WT-10N'6E	6	992	NA	ESNTL
PCS-229	PCS-229	57291	F180	43E	32WT-1N'6E	6	992	AI-40B-21	ESNTL
PCS-230	PCS-230	57297	B074	E1H-H15	18W'T-9N'6D	6	993	NA	ESNTL
PCS-232	PCS-232	57297	F180	43E	12W'T-1N'6E	6	992	AI-40D-1	ESNTL
PCS-412	PCS-412	41303	A499	SB-11AKMR/TG10A32BR	0W'N-0N'7A	69	1026	NA	ESNTL
PCS-413	PCS-413	41303	A499	SB-11AKMR/TG10A32BR	0W'N-0N'7A	69	1026	NA	ESNTL
CB-1,2,3	PIC-103X	9503	S185	9223-11E-20550	CB-1-2-3	77	1036	AI-40A-20	DCA
CB-1,2,3	PIC-103Y	9503	S185	9223-11E-20550	CB-1-2-3	77	1036	AI-40B-21	DCA
AI-56	POX-1	39723	P435	XL-3	AI-56	77	1036	NA	ESNTL
AI-56	POX-3	39723	P435	XL-3	A1-56	77	1036	NA	DCA
AI-56	POX-4	39723	P435	XL-3	Al-56	77	1036	NA	DCA
AI-56	POX-5	39723	P435	XL-3	AI-56	77	1036	NA	DCA
AC-DC-1	PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	. 77	1036	AI-40A-01	DCA
AC-DC-1	PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	77	1036	NA	DCA
PS-1107B	PS-1107B	21422	A499	SBIIAR	3E'H-5N'3A	81	1041	NA	DCA
PS-1108B	PS-1108B	21421	A499	SBIIAR	3E'J-1S'5B	81	1041	NA	DCA
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
DG-1	PS-6019-1	17397	S382	6N-AA3-S1-PP	3E'K-5N'1A	63	1013	NA	DCA
DG-2	PS-6020-1	17397	S382	6N-AA2-SPP	3E'K-10S'2B	64	1013	NA	DCA
AI-33A	RM-050	9799	V115	842-10-5	AI-33A	77	1036	AI-40C-19	ESNTL
AI-33A	RM-051	9799	V115	842-3	AI-33A	77	1036	AI-40C-19	ESNTL
AI-33A	RM-054A	9799	V115	842-3	AI-33A	77	1036	AI-40C-19	DCA
AI-33A	RM-054B	9799	V115	842-3	AI-33A	77	1036	AI-40D-09	DCA
AI-33B	RM-060	9799	V115	842-30	AI-33B	77	1036	AI-40D-19	DCA
AI-33B	RM-061	9799	V115	842-30	Al-33B	77	1036	AI-40D-19	DCA
AI-33B	RM-062	9799	V115	842-3	AI-33B	77	1036	AI-40D-19	ESNTL
VA-46A	RR/VA46A	21846	T265	RLY-983	VA-46A	72	1036	MCC-3B1	ESNTL
VA-46B	RR/VA46B	21846	T265	RLY-983	VA-46B	72	1036	MCC-4A1	ESNTL
AI-133A	RS1/D1	17396	P297	KRP14DG	AI-133A	63	1007	NA	ESNTI.
Al-133B	RS1/D2	17396	P297	KRP14DG	AI-133B	64	1007	NA	ESNTL
AI-133A	RS2/D1	17396	P297	KRP14DG	AI-133A	63	1007	NA	ESNTL
AI-133B	RS2/D2	17396	P297	KRP14DG	AI-133B	64	1007	NA	ESNTL
HCV-247	SCB-247	37607	V030	S1140-23-10	9W'BB-33NTI	CONT	1004	NA	DCA
HCV-248	SCB-248	37607	V030	S1140-23-10	18W'CC-9N'II	CONT	1002	NA	DCA
ATA-D1	SE/ATA-D1	41898	A610	906172C	2W'D-0N'1A	63	1013	MCC-3B1	DCA
ATA-D2	SE/ATA-D2	41898	A610	906172C	3W'D-0N'2A	64	1013	MCC-4A1	DCA
ATD-D1	SE/ATD-D1	22025	A610	906124C	7W'D-12N'1A	63	1013	DC-BUS-1# CB	DCA
ATD-D2	SE/ATD-D2	22025	A610	906124C	8W'D-0N'2A	64	1013	DC-BUS-2# CB	DCA
CB-4 AUX	SGLS/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40A-05	ESNTL
CB-4 AUX	SGLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX	77	1036	AI-40B-03	ESNTL
DG-1	TC-6032	17411	S345	BGW2S9	2W'K-9N'1A	63	1013	NA	DCA
DG-2	TC-6132	17411	\$345	BGW2S9	2W'K-6S'2B	64	1013	NA	DCA
TC-858A	TC-858A	15701	J073	T-7154	7W'D-12N'1A	63	1011	NA	DCA
TC-858B	TC-858B	15701	J073	T-7154	7W'D-21N'1A	64	1011	NA	DCA
DG-1	TCA-3345	17397	F081	22800-0	4E'K-10N'1A	63	1015	NA	DCA
DG-2	TCA-3346	17397	F081	22800-0	4E'K-5S'2B	64	1015	NA	DCA
CB-1,2,3	TIC-202	1279	S185	9223-20B	CB-1,2,3	77	1036	AI-42A-07	DCA
AC-12A CTR	TR/AC-12A	43125	C360	PMT	AC-12A CTRL PANEL	INTK	994	MCC-3B3	DCA
AC-12B CTR	TR/AC-12B	43125	C360	PMT	AC-12B CTRL PANEL	INTK	994	MCC-4C4	DCA
ATA-D1	TS/ATA-D1	41898	A610	906172C	2W'D-0N'1A	63	1013	MCC-3B1	DCA
ATA-D2	TS/ATA-D2	41898	A610	906172C	3W'D-0N'2A	64	1013	MCC-4A1	DCA
ATD-D1	TS/ATD-D1	22025	A610	906124C	7W'D-12N'1A	63	1013	DC-BUS-1# CB	DCA
ATD-D2	TS/ATD-D2	22025	A610	906124C	8W'D-0N'2A	64	1013	DC-BUS-2# CB	DCA
VA-46A	TS/VA46A	21846	G080	CR120B0D0422	VA-46A	72	1036	MCC-3B1	ESNTL
VA-46B	TS/VA46B	21846	G080	CR120B0D0422	VA-46B	72	1036	MCC-4A1	ESNTL
AI-34	YIS-6287A	21847	1133	AG3100-9422	AI-34	77	1036	AI-42A-09	DCA
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BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER	STATUS
AI-35	YIS-6287B	21847	1133	AG3100-9421	AI-35	77	1036	AI-42B-11	DCA
YIT-6286A	YIT-6286A	21847	M028	7055	4W'E-0N'6D	77	1040	NA	ESNTL
YIT-6286B	YIT-6286B	21847	M028	7055	10W'D-9N'6D	77	1040	AI-42B-11	ESNTL
YIT-6288A	YIT-6288A	21847	M028	7040-FA	2W'E-0N'6D	77	1040	NA	DCA
YIT-6288B	YIT-6288B	21847	M028	7040-FA	12W'D-0N'6D	77	1040	NA	DCA
YT-6048	YT-6048	17398	S519	ESSB-4AT	2E'K-5N'1A	63	1014	NA	ESNTL
YT-6148	YT-6148	17398	S519	ESSB-4AT	2F'K-10S'2B	64	1014	NA	ESNIL
YT-6048	YT-6148	17398	S519	ESSB-4AT	2E'K-10S'2B	64	1014	NA	ESNTL.

RELAY EVALUATION REPORT

Caveats and Notes for GERS Data (Refs. 5.4 and 5.5) Used in Performing SCS on ERL

Caveats

- 1) Relay must be mounted in the vertical position.
- 2) DC = 120 + /-5V rating.
- 3) AC = 120 + /-5V rating.
- 4) Rotary relay with no more than 24 poles of double throw contact configuration.
- 5) Relay must be panel-mounted with all mounting bolts in accordance with the manufacturer's recommendations.
- 6) Time dial settings must be unity or greater.
- 7) The target/seal-in unity must have the letters "HI-G" on the faceplate (indicates post-1974 manufacture and a seismic resistant design).
- 8) Relay must be class 1E.
- 9) Relay has no more than 3 NC contacts.
- 10) Contactors must be of the low-voltage type (<600 volts) and have contact ratings less than 100 amps.
- 11) The unit must be secured to a metal panel by mounting bolts or brackets in accordance with the manufacturer's specifications.

Notes

- A) Catalog operation time adjustment 60 ms.
- B) Catalog operation time adjustment 30 ms.
- C) Ralpy has specific recommended minimum NO contact gap and minimum NO/NC contact wipe (refer to manufacturer's instructions).
- D) This relay is IEEE 344-1975 qualified.

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
AI-196	03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-196	03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-197	03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-196	03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-196	03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-196	03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-196	03/A-RC2B-1-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
Al-196	03/A-RC2B-2-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-196	03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
Ai-197	03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	No-	1.3	Note D	1.0
AI-197	03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A			Note D	1.0
AI-197	03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note L		Note D	1.0
AI-197	03/E -RC2A-2-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.	Note D	1.0
AI-197	03/B-RC25-1 !	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
Al-197	03/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-197	03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-197	03/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-198	03/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2A-2-1	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
A!-199	03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-199	03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AI-109B	183X1	43388	G080	12HFA151A2H	OUT	ARH.5	W	3, 8, 9, B, C	UNKNOWN	1.3	UNKNOWN	

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAVANOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
AI-109B	183X3	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	183X4	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	183X5	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	183X6	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	183X7	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	183X8	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	183X9	43388	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-133A	ICR/D1	6622	P297	CST-38-70010	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-133B	ICR/D2	6622	P297	CST-38-70010	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DI	ICRX/DI	17397	P297	KRP14DG	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D2	ICRX/D2	17397	P297	KRP14DG	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	27-1/1B3A	12254	G080	121AV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	27-1/1B3B	57305	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	27-1/1B3B-4B	57305	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	27-1/1B3C-4C	57308	G080	121AV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	27-1/1B4A	12254	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	27-1/1B4C	57308	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-133A	27-1/D1	9808	G080	12PJV11AFIA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-133B	27-1/D2	9818	G080	12PJV11AFIA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	27-1/S1-1	9804	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	27-1/S1-2	9805	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	27-1/S2-1	9814	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-2)	27-1/S2-2	9815	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	27-1X/S1-1	9804	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	27-1X/S1-2	9805	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(\$2-1)	27-1X/S2-1	9814	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(\$2-2)	27-1X/S2-2	9815	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(D1)	27-1XA/D1	9808	G080	12HFA51A42F	SCS	ARH.5	DNO	2, 9, A, C	6.0	1.3	2.4	0.7
AI-30B(D2)	27-1XA/D2	9818	G080	12HFA151A2F	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
1B3A	27-2/1B3A	12254	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	27-2/1B3B	57305	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	27-2/1B3B-4B	57305	G080	12IAV53LIA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	27-2/1B3C-4C	57308	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	27-2/1B4A	12254	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
1B4C	27-2/1B4C	57308	G080	12IAV53L1A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-133A	27-2/DI	9808	G080	12PJV11AFIA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-133B	27-2/D2	9818	G080	12PJV11AFIA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(D1)	27-2XB/D1	9808	G080	12HFA51A42F	SCS	ARH.5	DNO	2, 9, A, C	6.0	1.3	2.4	0.7
AI-30B(D2)	27-2XB/D2	9818	G080	12HFA151A2F	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AI-23A	27-3X/1A3	57238	P297	KAP14DG	SCS	ARS.4	W	NONE	4.0	1.3	2.4	0.7
AI-25A	27-3X/1A4	57240	P297	KAP14DG	SCS	ARS.4	W	NONE	4.0	1.3	2.4	0.7
1B3A	27-T1/1B3A	12254	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	27-T1/1B3B	57305	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B-4B	27-T1/1B3B-4B	57305	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	27-T1/1B3C-4C	57308	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	27-T1/1B4A	12254	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	27-T1/1B4C	57308	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	27-T1/OPLS-A	16951	A109	E7022AC003 or 004	SCS	PNT.7	E	1	10.0	4.1	4.0	2.7
1A4	27-T1/OPLS-B	16951	A109	E7022AC003 or 004	SCS	PNT.7	E	1	10.0	4.1	4.0	2.7
1A3	27-T1/OPLS-C	16951	A109	E7022AC003 or 004	SCS	PNT.7	E	1	10.0	4.1	4.0	2.7
1A4	27-T1/OPLS-D	16951	A109	E7022AC003 or 004	SCS	PNT.7	E	1	10.0	4.1	4.0	2.7
AI-24A	27T1/1A3	9397	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-25A	27T1/1A4	9398	E982	7012PBX	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-24A	27T1S/1A3	9397	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-25A	27T1S/1A4	9398	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-24A	27T1S1/1A3	9397	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-25A	27T1S1/1A4	9398	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	27T1X/1B3A	12254	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	27T1X/1B3B	57305	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	27T1X/1B3B-4B	57305	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	27T1X/1B3C-4C	57308	G080	12HFA51A42H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
184A	27T1X/1B4A	12254	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4C	2/T1X/1B4C	57308	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-24A	27T2/1A3	57241	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-26A	27T2/1A4	9398	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-24A	27T2S/1A3	57241	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-26A	27T2S/1A4	9398	G080	12HFA151A2H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CB-4 AUX	27X1/OPLS-A	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
CB-4 AUX	27X1/OPLS-B	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
CB-4 AUX	27X1/OPLS-C	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
CB-4 AUX	27X1/OPLS-D	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
CB-4 AUX	27X2/OPLS-A	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
CB-4 AUX	27X2/OPLS-B	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
CB-4 AUX	27X2/OPLS-C	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
CB-4 AUX	27X2/OPLS-D	16951	P297	MDR-131-1	SCS	ARR.3	W	4	6.0	1.3	3.6	0.7
AI-106A	33X/291	43437	G080	CR120B04022	SCS	A11.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	33X/292	43437	G080	CR120B04022	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-224A	42/46A	21846	G080	CR120B0D0422	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-224A	42/46B	21846	G080	CR120B0D0422	SCS	Al1.4	D	NONE	3.0	1.3	1.2	0.7
AI-106A	42X/VA46A	21847	G080	CR120B04022	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
A1-224B	42X/VA46B	21847	G080	CR120B0D0422	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	42X/VA46B	21847	G080	CR120B0D0422	SCS	All.4	D	NONE	3.0	1.3	1.2	0.7
AI-185	43A/AI-185	12517	E155	LOR	SCS	ALO.2	W	NONE	10.0	1.3	4.0	1.0
AI-185	43B/AI-185	12517	E155	LOR	SCS	ALO.2	w	NONE	10.0	1.3	4.0	1.0
AI-185	43C/AI-185	12517	E155	LOR	SCS	ALO.2	W	NONE	10.0	1.3	4.0	1.0
AI-185	43D/AI-185	12517	E155	LOR	SCS	ALO.2	W	NONE	10.0	1.3	4.0	1.0
1A3	49-50-83/AC-10A-1	9958	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/AC-10A-2	9958	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/AC-10A-3	9958	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	49-50-83/AC-10B-1	9986	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	49-50-83/AC-10B-2	9986	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	49-50-83/AC-10B-3	9986	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/AC-10C-1	9960	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/AC-10C-2	9960	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/AC-10C-3	9960	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	49-50-83/AC-10D-1	9988	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	49-50-83/AC-10D-2	9988	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	49-50-83/AC-10D-3	9988	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/FW-6-1	9962	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/FW-6-2	9962	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	49-50-83/FW-6-3	9962	G080	12IAC66K8A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-106A	5-1/VA46A	21847	G080	CR120B0D0422	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP 2	ZPA_DEM
AI-106B	5-1/VA46B	21847	G080	CR120B04022	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
AI-106A	5/VA46A	21847	G080	CR120B04022	SCS	All.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	5/VA46B	21847	G080	CR120B04022	SCS	A11.4	D	NONE	3.0	1.3	1.2	0.7
1A3	50-51/T1B-3A-1	9967	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3A-2	9967	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3A-3	9967	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3B-1	9968	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3B-2	9968	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3B-3	9968	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3C-1	9969	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3C-2	9969	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	50-51/T1B-3C-3	9969	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4A-1	9996	G080	12IAC66N16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4A-2	9996	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4A-3	9996	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4B-1	9995	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4B-2	9995	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4B-3	9995	G080	12IAC SN16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4C-1	9994	G080	121AC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	50-51/T1B-4C-2	9994	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	50-51/T1B-4C-3	9994	G080	12IAC66B16A	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-24	51/1A13-I	9401	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
A1-24	51/1A13-2	9401	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
AI-24	51/1A13-3	9401	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
AI-25	51/1A24-1	9403	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
AI-25	51/1A24-2	9403	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
AI-25	51/1A24-3	9403	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
A1-24	51/1A33-1	9401	G080	12IAC53A-803A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
A1-24	51/1A33-2	9401	G080	12IAC53A-803A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
A1-24	51/1A33-3	9401	G080	12IAC53A-803A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
AI-25	51/1A44-1	9403	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
AI-25	51/1A44-2	9403	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
A1-25	51/1A44-3	9403	G080	12IAC53A101A	SCS	PP1.5	W	5, 6	7.0	1.3	4.2	0.7
1A3	52/TC/1A3-10	9960	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
1A3	52/TC/1A3-11	9967	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52/TC/1A3-12	9968	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52/TC/1A3-13	9969	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52/TC/1A3-16	9962	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA3	52/TC/1A3-20	9953	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52/TC/1A3-9	9958	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52/TC/1A4-1	9980	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52/TC/1A4-10	9996	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52/TC/1A4-11	9986	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52/TC/1A4-12	9988	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52/TC/1A4-8	9994	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52/TC/1A4-9	9995	G080	AM-4.16-250-8H (52/T	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52/TC/1B3A	57310	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52/TC/1B3A-4	57294	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52/TC/1B3A-7	12333	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52/TC/1B3B	57311	G080	2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52/TC/1B3B-4	12332	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N'A	N/A	N/A
1B3B-4B	52/TC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52/TC/1B3C	57312	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	NA	N/A	N/A
1B3C-4C	52/TC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/r	N/A	N/A
1B4A	52/TC/1B4A	57313	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	52/TC/1B4A-1	57295	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52/TC/1B4B	57314	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52/TC/1B4C	57315	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52/TC/1B4C-6	57291	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52/TC/1B4C-8	57300	G080	AK-2A-25-1 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52/TC/BT-1B3A	57303	G080	AK-2A-503-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52/TC/BT-1B3C	57309	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52/TC/BT-1B4B	57307	G080	AK-2A-50S-2 (52/TC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52CC/1B3A	57310	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52CC/1B3A-4	57294	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	MA	N/A
1B3A	52CC/1B3A-7	12333	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N. Y	N/A
1B3B	52CC/1B3B	57311	G080	2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52CC/1B3B-4	12332	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
1B3B-4B	52CC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB3C	S2CC/1B3C	57312	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	52CC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4A	52CC/1B4A	57313	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4A	52CC/1B4A-1	57295	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52CC/1B4B	57314	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52CC/!B4C	57315	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52CC/1B4C-6	57291	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52CC/1B4C-8	57300	G080	AK-2A-25-1 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB3A	52CC/BT-1B3A	57303	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52CC/BT-1B3C	57309	G080	AK-2A-50S-2 (52CC)	SW'GR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52CC/BT-1B4B	57307	G080	AK-2A-50S-2 (52CC)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-10	9960	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-11	9967	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-12	9968	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-13	9969	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-16	9962	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-20	9953	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52X/1A3-9	9958	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52X/1A4-1	9980	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52X/1A4-10	9996	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	52X/1A4-11	9986	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52X/1A4-12	9988	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52X/1A4-8	9994	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52X/1A4-9	9995	G080	AM-4.16-250-8H (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52X/1B3A	57310	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52X/IB3A-4	57294	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52X/1B3A-7	12333	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52X/1B3B	57311	G080	2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52X/1B3B-4	12332	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B-4B	52X/1B3B-4B-5	57297	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52X/1B3C	57312	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	52X/1B4A	57313	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4A	52X/1B4A-1	57295	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
1B4B	52X/1B4B	57314	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4C	52X/1B4C	57315	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4C	52X/1B4C-6	57291	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52X/1B4C-8	57300	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	52X/1BC3-4C-4	57296	G080	AK-2A-25-1 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52X/BT-1B3A	57303	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52X/BT-1B3C	57309	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52X/BT-1B4B	57307	G080	AK-2A-50S-2 (52X)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52XX/1B3A	57310	G080	CR120A26241	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52XX/1B3B	57311	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52XX/1B3C	57312	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	52XX/1B4A	57313	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52XX/1B4B	57314	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52XX/1B4C	57315	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52XX/AC-3A	12332	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4A	52XX/AC-3B	57295	G089	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	52XX/AC-3C	57296	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52XX/BT-1B3B	57306	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52XX/BT-1B3C	57309	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52XX/BT-1B4B	57307	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52XX/BT-1B4C	12255	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB3A	52XX/VA-3A	12333	G080	CR120AS5041	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52Y/1A3-11	9967	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52Y/1A3-12	9968	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52Y/1A3-13	9969	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52Y/1A3-16	9962	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52Y/1A3-20	9953	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA3	52Y/1A3-9	9958	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52Y/1A4-1	9980	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52Y/1A4-10	9996	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52Y/1A4-12	9988	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52Y/1A4-8	9994	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52Y/1A4-9	9995	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB3A	52Y/1B3A	57310	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
1B3A	527/1B3A-4	57294	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3A	52Y/1B3A-7	12333	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	∠Y/1B3B	57311	G080	2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	52Y/1B3B-4	12332	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B-4B	52Y/1B3B-4B-5	57297	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52Y/1B3C	57312	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4A	52Y/1B4A	57313	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB4A	52Y/1B4A-1	57295	G080	AK-2A-25-I (52Y)	SWGR	N/A	Nº 5	N/A	N/A	N/A	N/A	N/A
1B4B	52Y/1B4B	57314	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52Y/1B4C	57315	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52Y/1B4C-6	57291	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4C	52Y/1B4C-8	57300	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	52Y/AC-10B	9986	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	52Y/AC-10C	9960	G080	AM-4.16-250-8H (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C-4C	52Y/AC-3C	57296	G080	AK-2A-25-1 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IB3A	52Y/BT-1B3A	57303	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	52Y/BT-1B3C	57309	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4B	52Y/BT-1B4B	57307	G080	AK-2A-50S-2 (52Y)	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/AC-10A	9801	A109	2452PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/AC-10C	9801	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/AC-3A	9802	A109	2452PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/AC-3C	9802	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/CH-1A	9802	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/CH-1C	9802	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-1)	62-1-1/FW-6	9801	A109	2452PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(\$1-1)	62-1-1/VA-3A	9802	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1-1X/AC-10A	9801	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1-1X/AC-10C	9801	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-1X/AC-3A	9802	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-1X/AC-3C	9802	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-1X/CH-1A	9802	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-1X/CH-1C	9802	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1-1X/FW-6	9801	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A1-108A	62-1-1X/VA-3A	9802	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
AI-30A(S1-2)	62-1-2/AC-10A	9801	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	62-1-2/AC-10C	9801	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	62-1-2/AC-3A	9803	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	62-1-2/AC-3C	9803	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	62-1-2/CH-1A	9803	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(\$1-2)	62-1-2/CH-1C	9803	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	62-1-2/FW-6	9801	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(S1-2)	62-1-2/VA-3A	9803	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1-2X/AC-10A	9801	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1-2X/AC-10C	9801	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-2X/AC-3A	9803	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-2X/AC-3C	9803	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-2X/CH-1A	9803	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-2X/CH-1C	9803	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1-2X/FW-6	9801	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108A	62-1-2X/VA-3A	9803	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1/AC-10A	9958	A109	2412PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	62-1/AC-10B	9986	A109	2412PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A3	62-1/AC-10C	9960	A109	2412PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	62-1/AC-10D	9988	A109	2412PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3B	62-1/AC-3A	12332	A109	2412PA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B4A	62-1/AC-3B	57295	A109	2412PA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1B3C	62-1/AC-3C	57296	A109	2412PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	62-2-1/AC-10B	9811	A109	2452PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	62-2-1/AC-10D	9811	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	62-2-1/AC-3B	9812	A109	2452PC	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	62-2-1/AC-3C	9812	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(\$2-1)	62-2-1/CH-1B	9812	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	62-2-1/CH-1C	9812	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-1)	62-2-1/VA-3B	9812	A109	2452PD	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	62-2-1X/AC-10B	9811	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	62-2-1X/AC-10D	9811	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-1X/AC-3B	9812	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-1X/AC-3C	9812	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
AI-108B	62-2-1X/CH-1B	9812	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-1X/CH-1C	9812	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A1-108B	62-2-1X/VA-3B	9812	G080	12HFA151A2F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-2)	62-2-2/AC-10B	9811	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A1-30B(S2-2)	62-2-2/AC-10D	9811	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A1-30B(S2-2)	62-2-2/AC-3B	9813	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4I-30B(S2-2)	62-2-2/AC-3C	9813	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(S2-2)	62-2-2/CH-1B	9813	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(52-2)	62-2-2/CH-1C	9813	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A1-30B(S2-2)	62-2-2/VA-3B	9813	A109	DPCXX012XDAAXAA	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IA4	62-2-2X/AC-10B	9811	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1A4	62-2-2X/AC-10D	9811	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-2X/AC-3B	9813	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-2X/AC-3C	9813	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-2X/CH-1B	9813	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-2X/CH-1C	9813	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-108B	62-2-2X/VA-3B	9813	G080	12HFA151A9F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-109B	62-B/LS	43388	A109	2414PD	SCS	PNT.7	W	1	10.0	1.3	4.0	1.0
AC-DC-2	62X/PCS-224	57294	A109	2412PE	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	62X/PCS-227	57291	A109	2412PE	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	62X/PCS-230	57297	A109	2412PE	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63X-1/LC-101	9513	G080	12HFA151A9H	OUT	ARH.5	E	3, 8, 9, B, C	UNKNOWN	1.3	UNKNOWN	0.7
AC-DC-2	63X-1/LIC-101	9513	G080	12HFA151A9H	OUT	ARH.5	E	3, 8, 9, B, C	UNKNOWN	1.3	UNKNOWN	0.7
AC-DC-2	63X-1/PIC-103	9503	G080	12HFA51A49H	OUT	ARH.5	E	2, 9, A, C	UNKNOWN	1.3	UNKNOWN	0.7
AC-DC-2	63X-2/LC-101	9513	G080	12HFA151A9H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63X/102-1	37777	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	63X/102-2	37777	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	63X/LCA-101	9513	G080	12HFA151A9H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63X/PCS-226	57294	G080	CR120A26241	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63X/PCS-229	57291	G080	CR120A26241	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63X/PCS-232	57297	G080	CR120A26241	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63XA/LC-101-1	9513	G080	12HFA151A9H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AC-DC-2	63XA/LC-101-2	9513	G080	12HFA15!A9H	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MCC-3A2	74/LCV-218-3	1258	\$440	219BBXP	SCS	ARS.4	W	NONE	5.0	3.1	2.0	1.0

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP 2	ZPA_DEM
AI-43A	742A-3	41564	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43A	742A-4	41564	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43A	742A-6	41564	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43A	742A-9	41564	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43B	742B-3	41567	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43B	742B-4	41567	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43B	742B-6	41567	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-30A(S1-1)	86-1/S1-1	9804	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
A1-30A(S1-2)	86-1/S1-2	9805	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(\$2-1)	86-1/S2-1	9814	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(S2-2)	86-1/\$2-2	9815	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(S1-1)	86-2/S1-1	9804	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(S1-2)	86-2/S1-2	9805	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(S2-1)	86-2/S2-1	9814	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(S2-2)	86-2/S2-2	9815	G080	12HEA61C241 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-22	86/161	9410	G080	12HEA61C	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-24	86/1A13	9401	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-25	86/1A24	9403	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-24	86/1A3-TFB	9406	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-24	86/1A33	9401	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-25	86/1A4-TFB	9406	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-25	86/1A44	9403	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-43A	86/AI-43A	41564	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-43B	86/AI-43B	41567	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-24	86/D1	9405	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-25	86/D2	9405	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(D1)	86A-OR/IADI	9808	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
A1-30B(D2)	86A-OR/1AD2	9818	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86A/CIAS	9806	G080	12HEA61C238X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86A/CPHS	9806	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86A/CRHS	9806	G080	12HEA61C244 or X2	SCS	ALO.2	w	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86 4/CSAS	9806	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(D1)	86A/DI	9808	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(D2)	86A/D2	9818	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7

Al-30A(ESF) 86A/OPLS 16951 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/PPLS 9866 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 GE4 ALIX 86A/SGILS 980.0 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 980.0 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 980.0 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C240 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C230 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.7 G080 12HEA6(C230 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 980.6 G080 12HEA6(C230 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 980.6 G080 12HEA6(C230 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SGILS 981.6 G080 12HEA6(C230 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CALS 981.6 G080 12HEA6(C230 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 8	BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP 2	PA_DEM
CB-4 AUX 86A/SGIS 24062 G880 12HEA61C239 or X2 SCS ALD.2 W NONE 10.0 1.3 4.0 0.7	Al-30A(ESF)	86A/OPLS	16951	G080	12HEA61C239 or X2	SCS	ALO.2	w	NONE	10.0	1.3	4.0	0.7
CB-4 86A/SGLS 9800 C080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SIAS 9806 C080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/SIAS 9806 C080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9817 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/IVAS 9818 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C240 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/IVAS 9816 C080 12HEA61C24	AI-30A(ESF)	86A/PPLS	9806	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30A(ESF) 86A/VIAS 9806 G080 12HEA61(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A/VIAS 9806 G080 12HEA61(C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CLAS 9817 G080 12HEA61(C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CHS 9817 G080 12HEA61(C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CHS 9817 G080 12HEA61(C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CRS 9817 G080 12HEA61(C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CRS 9817 G080 12HEA61(C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CRS 9817 G080 12HEA61(C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CRS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9818 G080 12HEA61(C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/VIAS 9818 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C24 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 9816 G080 12HEA61(C23 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B(CAS 980) G080 12HEA6	CB-4 AUX	86A/SGIS	24062	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
Al-30A(ESF) 86A/VIAS 9866 G080 12HEA61C239X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A/ICHS 9817 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C24Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 9816 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 980 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/ICHS 980 G080 12HEA61C23Y X2 SCS ALO2 W NONE 10.0 1.3 4.0	CB-4	86A/SGLS	9800	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86A1/CIAS 9817 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CHS 9817 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C239 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C239 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C239 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C239 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C239 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9817 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/CSAS 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1AD1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1AD2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1AD2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B-CR1S 9816 G080 12HEA61C239 or X2 SC	AI-30A(ESF)	86A/SIAS	9806	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86AL/CPHS 9817 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/CRHS 9817 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/CRHS 9817 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/SAS 9817 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9817 G080 12HEA61C249 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9817 G080 12HEA61C249 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/VIAS 9804 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86AC/SIAS 9806 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAD1 9808 G080 12HEA61C248 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C248 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C248 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C247 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C247 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C247 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C247 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C247 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C247 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 980 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10	AI-30A(ESF)	86A/VIAS	9806	G080	12HEA61C239X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86AL/CRHS 9817 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/CSAS 9817 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/FILS 9817 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/FILS 9817 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/SIAS 9817 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/SIAS 9817 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/SIAS 9817 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/SIAS 9817 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86AL/SIAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86AL/SIAS 9806 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BA/SIAS 9806 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BA/SIAS 9816 G080 12HEA61C243 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CLAS 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CLAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86BC/CHS 9816 G080 12HEA61C2	AI-30B(ESF)	86A1/CIAS	9817	G080	12HEA61C237 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-308(ESF) 86A1/CSAS 9817 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/PLS 9817 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9817 G080 12HEA61C239 x2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9817 G080 12HEA61C239X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9817 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9817 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9816 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86A1/VIAS 9806 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-OR1AD1 9808 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-OR1AD2 9818 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C240 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C240 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C240 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-308(ESF) 86B-CRHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4	AI-30B(ESF)	86A1/CPHS	9817	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86A1/FLS 9817 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/SIAS 9817 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/SIAS 9817 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86AX/SGIS 24062 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86AX/SGIS 24062 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A1/SIAS 9816 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A1/SIAS 9816 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CHS 9816 G080 12HEA61C236 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C243 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9818 G080 12HEA61C248 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C243 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B1/CHS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CHS 980 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CHS 980 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0	AI-30B(ESF)	86A1/CRHS	9817	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86A1/SIAS 9817 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/SIAS 9817 G080 12HEA61C239 x2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1/SIAS 9817 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 CE-4 AUX 86A2/SGIS 24062 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A2/SIAS 9806 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86A2/SIAS 9806 G080 12HEA61C24 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CPHS 9818 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9818 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9807 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86A1/CSAS	9817	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86A1/VIAS 9817 G080 12HEA61C239X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86A1X/SIAS 9817 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86AX/SGIS 24062 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86AX/SIAS 9806 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(D1) 86B-OR/1AD1 9808 G080 12HEA61C243 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CR/AD2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CR/AD2 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D1 9808 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C245 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D1S 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SGIS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9800 G080 12HEA61C237 or X2 SCS ALO.	AI-30B(ESF)	86A1/PPLS	9817	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86A1X/SIAS 9817 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86AX/SGIS 24062 G080 12HEA61C242 or X2 SCS ARH.5 E 3, 8, 9, B, C 15.0 1.3 6.0 0.7 Al-30A(ESF) 86AX/SIAS 9806 G080 12HEA61C243 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(D1) 86B-OR/1AD1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C243 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CHS 9816 G080 12HEA61C243 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9818 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9818 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 16951 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9818 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9806 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9800 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CDS 9807 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CDS 9807 G080 12HEA61C237 or X2 SCS ALO.2	AI-30B(ESF)	86A1/SIAS	9817	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
CB-4 AUX 86AX/SGIS 24062 G080 12HFA151A2H SCS ARH.5 E 3,8,9,B,C 15.0 1.3 6.0 0.7 AI-30A(ESF) 86AX/SIAS 9806 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(D1) 86B-OR/1AD1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CTAS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CTAS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CTAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CTAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CSAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/D2 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PLS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PLS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 86B/SGIS 24061 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/ICAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/ICAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/ICAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/ICAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/ICAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/ICAS 9807 G080 12HEA61C234 X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/ICAS 9807 G080 12HEA61C234 X2 SCS ALO.2 W NONE 10.0 1.3	AI-30B(ESF)	86A1/VIAS	9817	G080	12HEA61C239X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30A(ESF) 86AX/SIAS 9806 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(D1) 86B-OR/1AD1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D2) 86B-OR/1AD2 9818 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D2) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9818 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/D2 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 86B/SGIS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/VIAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/VIAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/VIAS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86A1X/SIAS	9817	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30A(D1) 86B-OR/1AD1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10 1.3 4.0 0.7 Al-30B(D2) 86B-OR/1AD2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D1) 86B/D1 9808 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D2) 86B/D2 9818 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/DLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 B6B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 B6B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 B6B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 B6B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/SAS 9807 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/SAS 9807 G080 12HEA61C234 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	CB-4 AUX	86AX/SGIS	24062	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-30B(D2) 86B-OR/1AD2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CTAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CPHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CSAS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/CD1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(D2) 86B/D1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PLS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PLS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PLS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/SIS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 B6B/SGIS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/VIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/VIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/VIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/VIAS 9816 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30A(ESF)	86AX/SIAS	9806	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D1) 86B/D1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CPLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30A(D1)	86B-OR/IADI	9808	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10	1.3	4.0	0.7
Al-30B(ESF) 86B/CPHS 9816 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D1) 86B/D1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D2) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/PLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9807 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(D2)	86B-OR/1AD2	9818	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86B/CRHS 9816 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C240 x2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(D1) 86B/D1 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D2) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/PPLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9516 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/CIAS	9816	G080	12HEA61C237 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86B/CSAS 9816 G080 12HEA61C242 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(D1) 86B/D1 9808 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(D2) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/PLS 9816 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 6.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9807 G080 12HEA61C237X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B/CPHS 9807 G080 12HEA61C244X2 SCS ALO2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/CPHS	9816	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(DI) 86B/DI 9808 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(D2) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PPLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CPHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CPHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/CRHS	9816	G080	12HEA61C244X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(D2) 86B/D2 9818 G080 12HEA61C238 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/PPLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HFA51A2H SCS ARH.5 E 3, 8, 9, B, C 15.0 1.3 6.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CRHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86BI/CRHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/CSAS	9816	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86B/OPLS 16951 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/PPLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HFA151A2H SCS ARH.5 E 3, 8, 9, B, C 15.0 1.3 6.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CRHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CRHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CRHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30A(D1)	86B/D1	9808	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30B(ESF) 86B/PPLS 9816 G080 12HEA61C237 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 CB-4 AUX 86B/SGIS 24061 G080 12HFA151A2H SCS ARH.5 E 3, 8, 9, B, C 15.0 1.3 6.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(D2)	86B/D2	9818	G080	12HEA61C238 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
CB-4 AUX 86B/SGIS 24061 G080 12HFA151A2H SCS ARH.5 E 3, 8, 9, B, C 15.0 1.3 6.0 0.7 CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/OPLS	16951	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
CB-4 86B/SGLS 9800 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/PPLS	9816	G080	12HEA61C237 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30B(ESF) 86B/SIAS 9816 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.6 0.7 AI-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	CB-4 AUX	86B/SGIS	24061	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-30B(ESF) 86B/VIAS 9516 G080 12HEA61C239 of X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 of X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	CB-4	86B/SGLS	9800	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
Al-30A(ESF) 86B1/CIAS 9807 G080 12HEA61C237X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 Al-30A(ESF) 86B1/CRHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/SIAS	9816	G080	12HEA61C239 or X2	SCS	ALO.2	w	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF) 86B1/CPHS 9807 G080 12HEA61C244 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7 AI-30A(ESF) 86B1/CRHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30B(ESF)	86B/VIAS	9516	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF) 86B1/CRHS 9807 G080 12HEA61C244X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30A(ESF)	86B1/CIAS	9807	G080	12HEA61C237X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	
	AI-30A(ESF)	86B1/CPHS	9807	G080	12HEA61C244 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF) 86B1/CSAS 9807 G080 12HEA61C242 or X2 SCS ALO.2 W NONE 10.0 1.3 4.0 0.7	AI-30A(ESF)	86B1/CRHS	9807	G080	12HEA61C244X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
	AI-30A(ESF)	86B1/CSAS	9807	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP 2	PA_DEM
'AI-30A(ESF)	86B1/PPLS	9807	G080	12HEA61C244 or X2	SCS	ALO.2	w	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86B1/SIAS	9807	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86B1/VIAS	9807	G080	12HEA61C239 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
AI-30A(ESF)	86B1X/SIAS	9807	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
A1-30B(ESF)	86BX/SIAS	9816	G080	12HEA61C242 or X2	SCS	ALO.2	W	NONE	10.0	1.3	4.0	0.7
A1-43A	86X-A-B1/CPHS	24060	G080	12HFA151A2F	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-43B	86X-B-A1/CPHS	5976	G080	12HFA151A2F	OUT	ARH.5	E	3, 8, 9, B, C	UNKNOWN	1.3	UNKNOWN	0.7
AI-24	87/1ADI-1	9405	G080	12CFD12B1A	OUT	BAD	N/A	N/A	0.0	1.3	0.0	0.7
AI-24	87/1AD1-2	9405	G080	12CFD12B1A	OUT	BAD	N/A	N/A	0.0	1.3	0.0	0.7
AI-24	87/1AD1-3	9405	G080	12CFD12B1A	OUT	BAD	N/A	N/A	0.0	1.3	0.0	0.7
AI-25	87/1AD2-1	9405	G080	12CFD12B1A	OUT	BAD	N/A	N/A	0.0	1.3	0.0	0.7
AI-25	87/1AD2-2	9405	G080	12CFD12B1A	OUT	BAD	N/A	N/A	0.0	1.3	0.0	0.7
AI-25	87/1AD2-3	9405	G080	12CFD12B1A	OUT	BAD	N/A	N/A	0.0	1.3	0.0	0.7
AI-106A	94-1/6286A-6287A	21847	G080	CR120B0D0422	SCS	All.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	94-1/6286B-6287B	21847	G080	CR120B0D0422	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
AI-106A	94-1/6288A	21847	G080	CR120B04022	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	94-1/6288B	21847	G080	CR120B04022	SCS	Al1.4	D	NONE	3.0	1.3	1.2	0.7
AI-33A	94-1/RM-050/061	9799	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AI-33A	94-1/RM-051/062	9799	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AI-33A	94-1/RM-060	9799	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AI-106A	94-1/VA46A	21847	G080	CR120B04022	SCS	Al1.4	E	NONE	5.0	1.3	2.0	0.7
AI-106B	94-1/VA46B	21847	G080	CR120B04022	SCS	A11.4	E	NONE	5.0	1.3	2.0	0.7
AI-54B	94-17/FD	9828	G080	CR120A26941	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-54B	94-17X/FD	39723	P297	KUP5D15	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-54B	94-18/FD	9828	G080	CR120A26941	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-54B	94-18X/FD	39723	P297	KUP5D	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-106A	94-2/6288A	21847	G080	CR120B04022	SCS	All.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	94-2/6288B	21847	G080	CR120B04022	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
AI-106A	94-2/VA46A	21847	G080	CR120B04022	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	94-2/VA46B	21847	G080	CR120B04022	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-54B	94-25/FD	9828	G080	CR120A26941	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AI-109B	94-B2/LS	43388	G080	12HFA151A2H	SCS	ARH.5	W	3, 8, 9, B, C	3.0	1.3	1.2	1.0
AI-109B	94-B3/LS	43388	G080	12HFA151A2H	OUT	ARH.5	W	3, 8, 9, B, C	UNKNOWN	1.3	UNKNOWN	1.0
MCC-3A1	94/1	43399	G089	CR2810	OUT	N/A	N/A	N/A	UNKNOWN	3.3	UNKNOWN	1.1
												AND DESCRIPTION OF PERSONS ASSESSMENT

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP Z	PA_DEM
MCC-4C1	94/10	43402	G080	CR2810	OUT	N/A	TBD	N/A	UNKNOWN	3.3	UNKNOWN	1.1
CB-10,11	94/1045B	43389	G080	CR120AD04041AA	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AI-179	94/1045B-1	43389	G080	CR120AD04041AA	SCS	A12.4	W	NONE	9.0	1.3	5.4	1.0
CB-10,11	94/1045C	43389	G080	CR120AD04041AA	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AI-179	94/1045C-1	43389	G080	CR120AD04041AA	SCS	A12.4	W	NONE	9.0	1.3	5.4	1.0
MCC-4C1	94/11	43402	G080	CR2810	OUT	N/A	TBD	N/A	UNKNOWN	3.3	UNKNOWN	1.1
MCC-4CI	94/12	43402	G080	CR2810	OUT	N/A	TBD	N/A	UNKNOWN	3.3	UNKNOWN	1.1
CB-10,11	94/1368	37570	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AI-179	94/1368A	37570	G080	CR120A	SCS	AI2.4	W	NONE	9.0	1.3	5.4	1.0
CB-10,11	94/1369	37570	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AI-179	94/1369A	37570	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	1.0
MCC-3A1	94/2	43399	G080	CR2810	TUC	N/A	N/A	N/A	UNKNOWN	3.3	UNKNOWN	1.1
AC-DC-2	94/238	24368	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/239	24369	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/240	43398	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
CB-1,2,3	94/247	37607	G080	CR120BD003241	SCS	A11.4	D	NONE	3.0	1.3	1.2	0.7
CB-1,2,3	94/248	37607	G080	CR120BD3241	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
CB-1,2,3	94/249	37607	G080	CR120BD003241	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
AI-30A(ESF)	94/2861	42521	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2874A	12597	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2874B	12597	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2875A	12597	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2875B	12597	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2876A	12597	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2876B	12597	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2877A	41672	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2877B	41672	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2878A	41672	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2878B	41672	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2879A	41672	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2879B	41672	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2880A	41614	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2880B	41614	G080	CR120A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2881A	41614	G080	CR120A26241	SCS	AI2.4	w	NONE	9.0	1.3	5.4	0.7

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAVANOTES	PSA_CAP	PSA_DEM	ZPA_CAP Z	PA_DEM
AC-DC-2	94/2881B	41614	G080	CR129A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2882A	41614	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2882B	41614	G080	CR P20A26241	SCS	AI2.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2883A	41614	G080	CR120AD4041AA	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AC-DC-2	94/2883B	41614	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
CB-10,11	94/291	43437	G080	CR120AD03041AA	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
CB-10,11 AU	94/292	43437	G080	CR120AD03041AA	SCS	AJ2.4	W	NONE	9.0	1.3	5.4	0.7
MCC-3A1	94/3	43399	G080	CR2810	OUT	N/A	N/A	N/A	UNKNOWN	3.3	UNKNOWN	1.1
AI-45	94/438A/C	41303	G080	CR120A	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
A1-45	94/438B/D	41303	G080	CR120A	SCS	A12.4	W	NONE	9.0	1.3	5.4	0.7
AI-106A	94/VA46A	21847	G080	CR120B04022	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	94/VA46B	21847	G080	CR120B04022	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-106A	94AXI/VIAS	21847	G080	CR120B0D0422	SCS	AII.4	D	NONE	3.0	1.3	1.2	0.7
AI-106B	94BX1/VIAS	21847	G080	CR120B04022	SCS	AI1.4	D	NONE	3.0	1.3	1.2	0.7
CB-4 AUX	A/94-1/SIAS	43409	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
CB-4 AUX	A/94-2/SIAS	43409	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AC-DC-I	A/94-3/SIAS	5649	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
A1-44	A/94-3/VIAS	41568	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
A/PC-742-1	A/PC-742-1	9841	\$382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
A/PC-742-2	A/PC-742-2	9841	\$382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AC-DC-1	A/PtA-102Y-1	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AC-DC-I	A/PfA-102Y-2	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4	A/PIC-902	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4	A/PIC-905	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4 AUX	A/PIC-A1	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4 AUX	A/PIC-B1	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AI-66A	A/RC-2A/AFWS	16143	G080	12HFA51A42H	SCS	ARH.5	DNC	N/A	1.0	1.3	0.4	0.7
Al-66A	A/RC-2B/AFWS	16145	G080	12HFA151A2H	SCS	ARH.5	DNC	3, 8, 9, B, C	3.0	1.3	1.2	0.7
AI-66A	A1/RC-2A/AFWS	16143	G080	12HFA51A42H	SCS	ARH.5	DNC	N/A	1.0	1.3	0.4	0.7
A1-66A	A1/RC-2B/AFWS	16145	G080	12HFA151A2H	SCS	ARH.5	DNC	3, 8, 9, B, C	3.0	1.3	1.2	0.7
AI-30A(D1)	AC-A/IADI	9808	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(D2)	AC-A/IAD2	9818	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30A(D1)	AC-AX/IADI	9808	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30B(D2)	AC-AX/1AD2	9818	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BO	X	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
A1-3(0A(D1)	AC-B/IADI	9808	G080	12HFA51A42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30	0B(D2)	AC-B/IAD2	9818	G080	12HFA5LA42F	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-30	OA(DI)	AC-BX/IADI	9808	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A1-30	0B(D2)	AC-BX/1AD2	9818	A109	2452PB	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-13	33A	ACCI/D1	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-13	33B	ACC1/D2	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-13	33A	ACC2/D1	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
A1-13	33B	ACC2/D2	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-12	33A	A1-133A-41C	10791	P297	KAPIIDG	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.8
AI-13	33A	AI-133A-94	10791	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
Al-13	33B	AI-133B-41C	10791	P297	KAP11DG	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.8
AI-13	33B	AI-133B-94	10791	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-31	lA	AI-31A-AW10-K1	1605	P297	KHS17D11-24	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.7
AI-31	1A	AI-31A-AW7-K(AB)1	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	IA	AI-31A-AW7-K(AB)2	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
A1-31	1A	AI-31A-AW7-K(AB)3	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	IA	AI-31A-AW7-K(AB)4	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW10-K1	1605	P297	KHS17D11-24	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.7
AI-31	1B	AI-31B-BW19-K11	1587	C346	HG3A-1008	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW19-K13	1587	C346	HG3A-1008	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-3	IB	AI-31B-BW19-KTD1	1587	A160	700-NT200-A1	SCS	A12.4	W	NONE	10.0	1.3	4.0	0.7
AI-31	IB	A1-31B-BW6-K(BC)1	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
A1-31	1B	AI-31B-BW6-K(BC)2	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW6-K(BC)3	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW6-K(BC)4	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW7-K(BD)1	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
A1-31	1B	AJ-31B-BW7-K(BD)2	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW7-K(BD)3	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	1B	AI-31B-BW7-K(BD)4	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31	IB	AI-31B-IR-I	1587	A109	EGPI	SCS	ARS.4	E	NONE	10.0	1.3	4.0	0.7
AI-3	IB	AI-31B-IR-2	1587	A109	EGPI	SCS	ARS.4	E	NONE	10.0	1.3	4.0	0.7
AI-31	1C	Al-31C-CW10-K1	1605	P297	KH\$17D11-24	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.7
AI-3	1C	AI-31C-CW19-K12	1587	C346	HG3A-1008	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
A1-3	IC	AI-31C-CW19-K14	1587	C346	HG3A-1008	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP 2	ZPA_DEM
AI-31C	Al-31C-CW19-KTD2	1587	A160	700-NT200-A1	SCS	Al2.4	W	NONE	10.0	1.3	4.0	0.7
AI-31C	AI-31C-CW6-K(AC)1	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31C	AJ-31C-CW6-K(AC)2	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31C	AI-31C-CW6-K(AC)3	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31C	A1-31C-CW6-K(AC)4	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31C	AI-31C-CW7-K(CD)I	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31C	AI-31C-CW7-K(CD)2	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
Al-31C	AI-31C-CW7-K(CD)3	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31C	AI-31C-CW7-K(CD)4	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
Al-31C	AI-31C-IR-3	1587	A109	EGPI	SCS	ARS.4	E	NONE	10.0	1.3	4.0	0.7
AI-31C	AI-31C-IR-4	1587	A109	EGPI	SCS	ARS.4	E	NONE	10.0	1.3	4.0	0.7
Al-31D	AI-31D-DW10-K1	1605	P297	KHS17D11-24	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.7
AI-31D	AI-31D-DW6-K(AD)1	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31D	AI-31D-DW6-K(AD)2	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-31D	AI-31D-DW6-K(AD)3	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
Al-31D	AI-31D-DW6-K(AD)4	1587	C490	6924-34460	SCS	N/A	N/A	N/A	Note D	1.3	Note D	6.7
CB-4 AUX	B/94-1/SIAS	43409	G080	12HFA51A42H	SCS	ARH.5	E	2, 9, A, C	7.0	1.3	2.8	0.7
CB-4 AUX	B/94-2/SIÁS	43409	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AC-DC-I	B/94-3/SIAS	5650	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AI-44	B/94-3/VIAS	41568	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
AC-DC-1	B/94-4/SIAS	41673	G080	12HFA151A2H	SCS	ARH.5	E	3, 8, 9, B, C	15.0	1.3	6.0	0.7
B/PC-742-1	B/PC-742-1	9841	S382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
B/PC-742-2	B/PC-742-2	9841	S382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AC-DC-I	B/PIA-102Y-1	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AC-DC-I	B/P1A-102Y-2	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4	B/PIC-902	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4	B/PIC-905	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4 AUX	B/PIC-A2	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4 AUX	B/PIC-B2	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AI-66B	B/RC-2A/AFWS	16143	G080	12HFA51A42H	SCS	ARH.5	DNC	N/A	1.0	1.3	0.4	0.7
AI-66B	B/RC-2B/AFWS	16145	G080	12HFA151A2H	SCS	ARH.5	DNC	3, 8, 9, B, C	3.0	1.3	1.2	0.7
AI-66B	B1/RC-2A/AFWS	16143	G080	12HFA51A42H	SCS	ARH.5	DNC	N/A	1.0	1.3	0.4	0.7
AI-66B	B1/RC-2B/AFWS	16145	G080	12HFA151A2H	SCS	ARH.5	DNC	3, 8, 9, B, C	3.0	1.3	1.2	0.7
C/PC-742-1	C/PC-742-1	9841	\$382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
C/PC-742-2	C/PC-742-2	9841	S382	12N6BB4NXCIAJITT	SC.	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AC-DC-1	C/PIA-102Y-1	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AC-DC-1	C/PIA-102Y-2	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4	C/PIC-902	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4	C/PIC-905	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4 AUX	C/PIC-A3	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 3, 9, B, C	7.5	1.3	3.0	0.7
CB-4 AUX	C/PIC-B3	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
VA-46A	CR1/VA46A	21846	T265	RLY-751	SCS	N/A	N/A	N/A	Note D	4.1	Note D	2.7
VA-46B	CRI/VA46B	21846	T265	RLY-751	SCS	N/A	N/A	N/A	Note D	4.1	Note D	2.7
AI-179	CSX-A/i045A	21423	G080	CR120A26241	SCS	A12.4	W	NONE	9.0	1.3	5.4	1.0
D/PC-742-1	D/PC-742-1	9841	S382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
D/PC-742-2	D/PC-742-2	9841	S382	12N6BB4NXC1AJJTT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
AC-DC-I	D/PIA-102Y-1	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
AC-DC-1	D/PIA-102Y-2	9829	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4	D/PIC-902	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4	D/PIC-905	9800	D989	BB101AJTX10	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
CB-4 AUX	D/PIC-A4	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
CB-4 AUX	D/PIC-B4	9800	G080	12HFA151A9H	SCS	ARH.5	DNO	3, 8, 9, B, C	7.5	1.3	3.0	0.7
DI	DI-112	17397	G080	VB152	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
DI	D1-21-103A	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
Di	D1-21-103B	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-103BX	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-103C	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-104E1	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-104E1X	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-104E2	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-104E2X	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	Di-21-104N	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-104NX	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-105	17397	P297	KRP14DG	SCS	ARS.4	w	NONE	10.0	7.9	6.0	2.5
DI	D1-21-105X	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-112X1	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-127E1	17396	P297	KRP14DG	SCS	ARS.4	w	NONE	10.0	7.9	6.0	2.5
DI	D1-21-127E2	17398	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
DI	D1-21-PS7X2	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-PS9X	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-21-TDSTX	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D1-44-SV1X	17396	C770	1060 *	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	0.8
DI	D1-45-SV2X	17396	C770	1060	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	0.8
AI-133A	D1-46-TDL	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
DI	DI-46-TDL	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
DI	DI-47-TDSF	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
DI	D1-49-TDS1	17396	A109	2412PC	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
DI	D1-50-TDS2	17396	A109	2412PC	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
AI-133A	D1-52-TDSR	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
DI	D1-52-TDSR	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
DI	D1-66-42BPM1	17397	C770	A10CN0	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
DI	D1-67-42BPM2	17397	C770	A10CN0	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
DI	DI-68-42FP	17397	S972	77U32	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
D2	D2-112	17397	G080	VB152	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
D2	D2-21-103A	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-103B	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-103BX	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-103C	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-104E1	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-104E1X	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-104E2	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-104E2X	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-104N	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-104NX	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-105	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-105X	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-112X1	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-127E1	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-127E2	17398	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
DI	D2-21-127E2	17398	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-PS7X2	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-21-PS9X	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5

BOX	RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
D2	D2-21-TDSTX	17397	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	7.9	6.0	2.5
D2	D2-44-SV1X	17396	C770	1060	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	0.8
D2	D2-45-SV2X	17396	C770	1060	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	0.8
AI-133B	D2-46-TDL	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
D2	D2-46-TDL	17397	A109	2412PD	SCS	PNT.7	W	- 1	12.5	1.3	5.0	0.8
D2	D2-47-TDSF	17397	A109	2412PD	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
D2	D2-49-TDS1	17396	A109	2412PC	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
D2	D2-50-TDS2	17396	A109	2412PC	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
AI-133B	D2-52-TDSR	17397	A109	2412PC	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
D2	D2-52-TDSR	17397	A109	2412FC	SCS	PNT.7	W	1	12.5	1.3	5.0	0.8
D2	D2-66-42BPM1	17397	C770	A10CN0	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
D2	D2-67-42BPM2	17397	C770	A10CN0	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	2.5
D2	D2-68-42FP	17397	5972	77U32	OUT	N/A	N/A	N/A	UNKNOWN	7.9	UNKNOWN	
AI-4B	LC-101-1	9513	R335	ET-222	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-4B	LC-101-2	9513	R335	ET-222	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-4A	LC-101X	9513	F180	M/63U-ET-OHAR	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	
AI-4B	LC-101Y	9513	F180	M/63U-ET-OHAR	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	0.7
AI-4A	LCA-101X	9513	F180	CUSTOM 63U	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Al-4B	LCA-101Y	9513	F180	CUSTOM 63U	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-4A	LIC-101X	9513	S185	9223-11E	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	
AI-4B	LIC-101Y	9513	S185	9223-11E	OUT	N/A	N/A	N/A	UNKNOWN	1.3	UNKNOWN	0.7
MCC-3C1	M/PCV-102-1	37777	G080	CR106	SCS	CON.3	W	10, 11	4.5	3.3	2.5	1.1
MCC-4B1	M/PCV-102-2	37777	G080	CR106	SCS	CON.3	W	10, 11	4.5	3.3	2.5	1.1
MCC-3B1	Mc/HCV-150	41445	G080	CR106	SCS	CON.3	W	10, 11	4.5	3.3	2.5	1.1
MCC-4A1	Mc/HCV-151	41445	C'080	CR106	SCS	CON.3	W	10, 11	4.5	3.3	2.5	1.1
VA-46A	MC1/VA46A	21346	T265	CTR-535	SCS	CON.3	W	N/A	4.5	4.1	2.5	2.7
VA-46B	MCI/VA46B	21846	T265	CTR-535	SCS	CON.3	W	N/A	4.5	4.1	2.5	2.7
MCC-4C1	Mo/HCV-1384	54553	G080	CR106	SCS	CON.3	W	10, 11	4.5	3.3	2.5	1.1
MCC-3A2	Mo/LCV-218-3	1258	G080	CR106	SCS	CON.3	W	10, 11	4.5	3.1	2.5	1.0
VA-46A	MSI/VA46A	21846	T265	HTR-259	SCS	CON.3	W	N/A	4.5	4.1	2.5	2.7
VA-46B	MS1/VA46B	21846	T265	HTR-259	SCS	CON.3	W	N/A	4.5	4.1	2.5	2.7
PCS-224	PCS-224	57294	B074	E1H-H15	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCS-226	PCS-226	57294	F180	43E	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCS-227	PCS-227	57291	B074	EIH-HI5	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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BOX		RELAY	FILE	MFG	MODEL	STATUS	GERS#	STATE	CAV/NOTES	PSA_CAP	PSA_DEM	ZPA_CAP	ZPA_DEM
PCS-22	29	PCS-229	57291	F180	43E	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCS-23	30	PCS-230	57297	B074	E1H-H15	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCS-23	32	PCS-232	57297	F180	43E	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCS-41	12	PCS-412	41303	A499	SB-11AKMR/TG10A32	SCS	N/A	N/A	N/A	Note D	7.9	Note D	2.5
PCS-41	13	PCS-413	41303	A499	SB-11AKMR/TG10A32	SCS	N/A	N/A	N/A	Note D	7.9	Note D	2.5
A1-56		POX-1	39723	P435	XL-3	SWGR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AI-33A		RM-050	9799	V115	842-10-5	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-33A		RM-051	9799	V115	842-3	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
AI-33B	3	RM-062	9799	V115	842-3	SCS	N/A	N/A	N/A	Note D	1.3	Note D	0.7
VA-46/	A	RR/VA46A	21846	T265	RLY-983	SCS	N/A	N/A	N/A	Note D	4.1	Note D	2.7
VA-46H	В	RR/VA46B	21846	T265	RLY-983	SCS	N/A	N/A	N/A	Note D	4.1	Note D	2.7
AI-133	A	RS1/D1	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-133	B	RS1/D2	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-133	A	RS2/DI	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
AI-133	B	RS2/D2	17396	P297	KRP14DG	SCS	ARS.4	W	NONE	10.0	1.3	6.0	0.8
CB-4 A	AUX	SGLS/BLOCK-A	9821	G080	12HFA151A9H	SCS	ARH.5	DNC	3, 8, 9, B, C	3.0	1.3	1.2	0.7
CB-4 A	XUX	SGLS/BLOCK-B	9821	G080	12HFA151A9H	SCS	ARH.5	DNC	3, 8, 9, B, C	3.0	1.3	1.2	0.7
VA-46/	A	TS/VA46A	21846	G080	CR120B0D0422	SCS	A11.4	W	N/A	3.0	4.1	1.2	2.7
VA-46	В	TS/VA46B	21846	G080	CR120B0D0422	SCS	AI1.4	W	N/A	3.0	4.1	1.2	2.7
YIT-62	286A	YIT-6286A	21847	M028	7055	SCS	N/A	N/A	N/A	Note D	0.6	Note D	0.4
YIT-62	286B	YIT-6286B	21847	M028	7055	SCS	N/A	N/A	N/A	Note D	0.6	Note D	0.4
YT-604	48	YT-6048	17398	S519	ESSB-4AT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
YT-614	48	YT-6148	17398	\$519	ESSB-4AT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0
YT-604	48	YT-6148	17398	\$519	ESSB-4AT	SCS	N/A	N/A	N/A	Note D	1.3	Note D	1.0

APPENDIX E.
SWITCHGEAR RELAY LIST

APPENDIX E: SWITCHGEAR RELAY LIST

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
AI-109B	183X3	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B
AI-109B	183X4	43388	G080	12HFA151A2H	Al-109B	56	1014	AI-41B
AI-109B	183X5	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B
AI-109B	183X6	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B
AI-109B	183X7	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B
AI-109B	183X8	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B
AI-109B	183X9	43388	G080	12HFA151A2H	AI-109B	56	1014	AI-41B
AI-133A	ICR/D1	6622	P297	CST-38-70010	D-1	57	1019	NA
AI-133B	ICR/D2	6622	P297	CST-38-70010	D-2	57	1019	NA
DI	1CRX/D1	17397	P297	KRP14DG	D-1	57	1019	NA
D2	1CRX/D2	17397	P297	KRP14DG	D-2	57	1019	NA
1B3A	27-1/1B3A	12254	G080	12IAV53L1A	IB3A	56	1011	IB3A
1B3B	27-1/1B3B	57305	G080	121AV53L1A	1B3B	56	1011	1B3B
1B3B	27-1/1B3B-4B	57305	G080	121AV53L1A	1B3B	56	1011	1B3B-4B
1B3C-4C	27-1/1B3C-4C	57308	G080	12IAV53L1A	IB3C-4C	56	1011	1B3C-4C
1B4A	27-1/1B4A	12254	G080	121AV53L1A	IB4A	56	1011	1B4A
1B4C	27-1/1B4C	57308	G080	12IAV53L1A	1B4C	56	1011	1B4C
AI-133A	27-1/D1	9808	G080	12PJV11AFIA	AI-133A	63	1007	NA
AI-133B	27-1/D2	9818	G080	12PJV11AFIA	AI-133B	64	1007	NA
AI-30A(S1-1)	27-1/S1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-2)	27-1/S1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	77	1036	AI-41B-13
AI-30B(S2-1)	27-1/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	77	1036	AI-41B-06
AI-30B(S2-2)	27-1/\$2-2	9815	G080	12HFA51A42F	AI-30B(S2-2)	77	1036	AI-41A-13
AI-30A(S1-I)	27-1X/S1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-2)	27-1X/S1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	77	1036	AI-41B-13
AI-30B(S2-1)	27-1X/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	77	1036	AI-41B-06
Al-30B(S2-2)	27-1X/S2-2	9815	G080	12PFA51A42F	AI-30B(S2-2)	77	1036	AI-41A-13
1B3A	27-2/1B3A	12254	G080	12IAV53L1A	1B3A	56	1011	IB3A
1B3B	27-2/1B3B	57305	G080	121AV53L1A	1B3B	56	1011	1B3B
1B3B	27-2/1B3B-4B	57305	G080	12IAV53L1A	1B3B	56	1011	1B3B-4B
1B3C-4C	27-2/1B3C-4C	57308	G080	12IAV53L1A	IB3C-4C	56	1011	1B3C-4C
1B4A	27-2/1B4A	12254	G080	12IAV53L1A	1B4A	56	1011	IB4A
1B4C	27-2/1B4C	57308	G080	12IAV53L1A	1B4C	56	1011	IB4C
AI-133A	27-2/D1	9808	G080	12PJV11AFIA	AI-133A	63	1007	NA

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
AI-133B	27-2/D2	9818	G080	12PJV11AFIA	AI-133B	64	1007	NA
IB3A	27-T1/1B3A	12254	A109	2412PC	IB3A	56	1011	EE-8F
1B3B	27-T1/1B3B	57305	A109	2412PC	1B3B	56	1011	EE-8F
1B3B-4B	27-T1/1B3B-4B	57305	A109	2412PC	1B3B-4B	56	1011	EE-8G
1B3C-4C	27-T1/1B3C-4C	57308	A109	2412PC	1B3C-4C	56	1011	EE-8F
1B4A	27-T1/1B4A	12254	A109	2412PC	1B4A	56	1011	EE-8G
1B4C	27-T1/1B4C	57308	A109	2412PC	1B4C	56	1011	EE-8G
AI-24A	27T1/1A3	9397	A109	2452PB	AI-24A	77	1036	AI-41A-16
AI-25A	27T1/1A4	9398	E982	7012PBX	Al-25A	77	1036	AI-41B-16
AI-24A	27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	77	1036	AI-41A-16
AI-25A	27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	77	1036	AI-41B-16
AI-24A	27T1S1/1A3	9397	G080	12HFA151A2H	AI-24A	77	1036	AI-41A-16
AI-25A	27T1S1/1A4	9398	G080	12HFA151A2H	AI-25A	77	1036	AI-41B-16
1B3A	27T1X/1B3A	12254	G080	12HFA151A2H	1B3A	56	1011	EE-8F
1B3B	27T1X/1B3B	57305	G080	12HFA151A2H	1B3B	56	1011	EE-81
1B4B	27T1X/1B3B-4B	57305	G080	12HFA151A2H	1B4B	56	1011	EE-8G
1B3C-4C	27T1X/1B3C-4C	57308	G080	12HFA51A42H	1B3C-4C	56	1011	EE-8G
JB4A	27T1X/1B4A	12254	G080	12HFA151A2H	IB4A	56	1011	EE-8G
1B4C	27T1X/:B4C	57308	G080	12HFA151A2H	1B4C	56	1011	EE-8G
AI-24A	27T2/1A3	57241	A109	2452PB	AI-24A	77	1036	AI-41B-16
AI-26A	27T2/1A4	9398	A109	2452PB	AI-26A	77	1036	AI-41A-16
AI-24A	27T2S/IA3	57241	G080	12HFA151A2H	AI-24A	77	1036	AI-41B-16
AI-26A	27T2S/1A4	9398	G080	12HFA151A2H	AI-26A	77	1036	AI-41A-16
1A3	49-50-83/AC-10A-1	9958	G080	12IAC66K8A	1A3-09	56	1011	1A3-9
1A3	49-50-83/AC-10A-2	9958	G080	12IAC66K8A	1A3-09	56	1011	1A3-9
1A3	49-50-83/AC-10A-3	9958	G080	121AC66K8A	1A3-09	56	1011	1A3-9
IA4	49-50-83/AC-10B-1	9986	G080	12IAC66K8A	1A4	56	1011	1A4-11
1A4	49-50-83/AC-10B-2	9986	G080	12IAC66K8A	IA4	56	1011	IA4-11
1A4	49-50-83/AC-10B-3	9986	G080	12IAC66K8A	1A4	56	1011	1A4-11
1A3	49-50-83/AC-10C-1	9960	G080	12IAC66K8A	1A3-10	56	1011	1A3-10
1A3	49-50-83/AC-10C-2	9960	G080	121AC66K8A	1A3-10	56	1011	IA3-10
1A3	49-50-83/AC-10C-3	9960	G080	121AC66K8A	1A3-10	56	1011	1A3-10
1A4	49-50-83/AC-10D-1	9988	G080	12IAC66K8A	1A4	56	1011	1A4-12
1A4	49-50-83/AC-10D-2	9988	G080	12IAC66K8A	1A4	56	1011	IA4-12

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWFR
1A4	49-50-83/AC-10D-3	9988	G080	12IAC66K8A	1A4	56	1011	IA4-12
1A3	49-50-83/FW-6-1	9962	G080	12IAC66K8A	1A3-16	56	1011	1A3-16
1A3	49-50-83/FW-6-2	9962	G080	12IAC66K8A	1A3-16	56	1011	1A3-16
IA3	49-50-83/FW-6-3	9962	G080	121AC66K8A	1A3-16	56	1011	1A3-16
1A3	50-51/TIB-3A-1	9967	G080	12IAC66B16A	1A3-11	56	1011	1A3-11
1A3	50-51/T1B-3A-2	9967	G080	12IAC66B16A	1A3-11	56	1011	1A3-11
1A3	50-51/T1B-3A-3	9967	G080	12IAC66B16A	1A3-11	56	1011	1A3-11
1A3	50-51/T1B-3B-1	9968	G080	12IAC66B16A	1A3-12	56	1011	1A3-12
1A3	50-51/T1B-3B-2	9968	G080	12IAC66B16A	1A3-12	56	1011	1A3-12
IA3	50-51/T1B-3B-3	9968	G080	12IAC66B16A	1A3-12	56	1011	1A3-12
IA3	50-51/T1B-3C-1	9969	G080	12IAC66B16A	1A3-13	56	1011	IA3-13
1A3	50-51/T1B-3C-2	9969	G080	121AC66B16A	1A3-13	56	1011	1A3-13
tA3	50-51/T1B-3C-3	9969	G080	12IAC66B16A	1A3-13	56	1011	1A3-13
1A4	50-51/T1B-4A-1	9996	G080	12IAC66N16A	1A4	56	1011	1A4-10
1A4	50-51/T1B-4A-2	9996	G080	12IAC66B16A	1A4	56	1011	1A4-10
IA4	50-51/T1B-4A-3	9996	G080	12IAC66B16A	1A4	56	1011	1A4-10
1A4	50-51/T1B-4B-1	9995	G080	12IAC66B16A	1A4	56	1011	IA4-9
1A4	50-51/T1B-4B-2	9995	G080	12IAC66B16A	1A4	56	1011	1A4-9
1A4	50-51/T1B-4B-3	9995	G080	121AC66N16A	IA4	56	1011	1A4-9
1A4	50-51/T1B-4C-1	9994	G080	121AC66B16A	1A4	56	1011	1A4-8
1A4	50-51/T1B-4C-2	9994	G080	12IAC66B16A	1A4	56	1011	1A4-8
IA4	50-51/T1B-4C-3	9994	G080	12IAC66B16A	1A4	56	1011	1A4-8
1A3	52/TC/1A3-10	9960	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3
1A3	52/TC/1A3-11	9967	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3
1A3	52/TC/1A3-12	9968	G080	AM-4.16-250-8H (52/TC)	IA3	56	1011	1A3
1A3	52/TC/1A3-13	9969	G080	AM-4.16-250-8H (52/TC)	1A3	56 *	1011	1A3
IA3	52/TC/1A3-16	9962	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3
1A3	52/TC/1A3-20	9953	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	EE-IF(Dt)
1A3	52/TC/1A3-9	9958	G080	AM-4.16-250-8H (52/TC)	1A3	56	1011	1A3
1A4	52/TC/1A4-1	9980	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	EE-1G(D2)
1A4	52/TC/1A4-10	9996	G080	AM-4.16-250-8H (52/TC)	IA4	56	1011	1A4
1A4	52/TC/1A4-11	9986	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	1A4
1A4	52/TC/1A4-12	9988	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	IA4
1A4	52/TC/1A4-8	9994	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	IA4

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
1A4	52/TC/1A4-9	9995	G080	AM-4.16-250-8H (52/TC)	1A4	56	1011	IA4
183A	52/TC/1B3A	57310	G080	AK-2A-50S-2 (52/TC)	iB3A	56	1011	TIB-3A
1B3A	52/TC/1B3A-4	57294	G080	AK-2A-25-1 (52/TC)	1B3A	56	1017	1B3A
IB3A	52/TC/1B3A-7	12333	G080	AK-2A-25-1 (52/TC)	1B3A	56	1011	1B3A
1B3B	52/TC/1B3B	57311	G080	2A-50S-2 (52/TC)	1B3B	56	1011	TIB-3B
1B3B	52/TC/1B3B-4	12332	G080	AK-2A-25-1 (52/TC)	1B3B	56	1011	1B3B
1B3B-4B	52/TC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52/TC)	1B3B-4B	56	1011	1B3B-4B
1B3C	52/TC/1B3C	57312	G080	AK-2A-50S-2 (52/TC)	1B3C	56	1011	TIB-3C
1B3C-4C	52/TC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52/TC)	1B3C-4C	56	1011	IB3C-4C
IB4A	52/TC/1B4A	57313	G080	AK-2A-50S-2 (52/TC)	1B4A	56	1011	TIB-4A
1B4A	52/TC/1B4A-1	57295	G080	AK-2A-25-1 (52/TC)	IB4A	56	1011	IB4A
1848	52/TC/1B4B	57314	G080	AK-2A-50S-2 (52/1 -)	1B4B	56	1011	TIB-4B
IB4C	52/TC/1B4C	57315	G080	AK-2A-50S-2 (52/TC)	1B4C	56	1011	TIB-4C
1B4C	52/TC/1B4C-6	57291	G080	AK-2A-25-1 (52/TC)	1B4C	56	1011	1B4C
1B4C	52/TC/1B4C-8	57300	G080	AK-2A-25-1 (52/TC)	1B4C	56	1011	1B4C
IB3A	52/TC/BT-1B3A	57303	G080	AK-2A-50S-2 (52/TC)	1B3A	56	1011	IB3A
1B3C	52/TC/BT-1B3C	57309	G080	AK-2A-50S-2 (52/TC)	IB3C	56	1011	IB3C
1B4B	52/TC/BT-1B4B	57307	G080	AK-2A-50S-2 (52/TC)	1B4B	56	1011	1B4B
1B3A	52CC/1B3A	57310	G080	AK-2A-50S-2 (52CC)	IB3A	56	1011	T1B-3A
1B3A	52CC/1B3A-4	57294	G080	AK-2A-25-1 (52CC)	IB3A	56	1011	1B3A
1B3A	52CC/1B3A-7	12333	G080	AK-2A-25-1 (52CC)	1B3A	56	1011	1B3A
1B3B	52CC/1B3B	57311	G080	2A-50S-2 (52CC)	1B3B	56	1011	TIB-3B
1B3B	52CC/1B3B-4	12332	G080	AK-2A-25-1 (52CC)	1B3B	56	1011	1B3B
1B3B-4B	52CC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52CC)	1B3B-4B	56	1011	1B3B-4B
1B3C	52CC/1B3C	57312	G080	AK-2A-50S-2 (52CC)	1B3C	56	1611	T1B-3C
1B3C-4C	52CC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52CC)	1B3C-4C	56	1011	1B3C-4C
IB4A	52CC/1B4A	57313	G080	AK-2A-50S-2 (52CC)	1B4A	56	1011	TIB-4A
IB4A	52CC/1B4A-1	57295	G080	AK-2A-25-1 (52CC)	1B4A	56	1011	1B4A
1B4B	52CC/1B4B	57314	G080	AK-2A-50S-2 (52CC)	1B4B	56	1011	T1B-4B
1B4C	52CC/1B4C	57315	G080	AK-2A-50S-2 (52CC)	1B4C	56	1011	TIB-4C
IB4C	52CC/1B4C-6	57291	G080	AK-2A-25-1 (52CC)	IB4C	56	1011	IB4C
1B4C	52CC/1B4C-8	57300	G080	AK-2A-25-1 (52CC)	IB4C	56	1011	IB4C
IB3A	52CC/BT-IB3A	57303	G080	AK-2A-50S-2 (52CC)	1B3A	56	1011	1B3A
1B3C	52CC/BT-1B3C	57309	G080	AK-2A-50S-2 (52CC)	183C	56	1011	IB3C

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
1B4B	52CC/BT-1B4B	57307	G080	AK-2A-50S-2 (52CC)	1B4B	56	1011	1B4B
1A3	52X/1A3-10	9960	G080	AM-4.16-250-8H (52X)	IA3	56	1011	1A3
1A3	52X/1A3-11	9967	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3
1A3	52X/1A3-12	9968	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3
1A3	52X/1A3-13	9969	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3
1A3	52X/1A3-16	9962	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3
1A3	52X/1A3-20	9953	G080	AM-4.16-250-8H (52X)	1A3	56	1011	EE-1F(D1)
1A3	52X/1A3-9	9958	G080	AM-4.16-250-8H (52X)	1A3	56	1011	1A3
1A4	52X/1A4-1	9980	G980	AM-4.16-250-8H (52X)	1A4	56	1011	EE-1G(D2)
1A4	52X/1A4-10	9996	G080	AM-4 16-250-8H (52X)	1A4	56	1011	IA4
1A4	52X/1A4-11	9986	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1A4
1A4	52X/1A4-12	9988	G080	AM-4.16-250-8H (52X)	IA4	56	1011	1A4
1A4	52X/1A4-8	9994	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1.04
1A4	52X/1A4-9	9995	G080	AM-4.16-250-8H (52X)	1A4	56	1011	1A4
1B3A	52X/1B3A	57310	G080	AK-2A-50S-2 (52X)	1B3A	56	1011	TIB-3A
1B3A	52X/1B3A-4	57294	G080	AK-2A-25-1 (52X)	1B3A	56	1011	1B3A
1B3A	52X/1B3A-7	12333	G080	AK-2A-25-1 (52X)	1B3A	56	1011	1B3A
1B3B	52X/1B3B	57311	G080	2A-50S-2 (52X)	1B3B	56	1011	TIB-3B
1B3B	52X/1B3B-4	12332	G080	AK-2A-25-1 (52X)	1B3B	56	1011	1B3B
1B3B-4B	52X/1B3B-4B-5	57297	G080	AK-2A-25-1 (52X)	1B3B-4B	56	1011	1B3B-4B
1B3C	52X/1B3C	57312	G080	AK-2A-50S-2 (52X)	1B3C	56	1011	TIB-3C
184A	52X/1B4A	57313	G080	AK-2A-50S-2 (52X)	IB4A	56	1011	TIB-4A
134A	52X/1B4A-1	57295	G080	AK-2A-25-1 (52X)	1B4A	56	1011	IB4A
1B4B	52X/1B4B	57314	G080	AK-2A-50S-2 (52X)	1B4B	56	1011	TIB-4B
1B4C	52X/1B4C	57315	G080	AK-2A-50S-2 (52X)	1B4C	56	1011	TIB-4C
1B4C	52X/1B4C-6	57291	G080	AK-2A-25-1 (52X)	1B4C	56	1011	1B4C
1B4C	52X/1B4C-8	57300	G080	AK-2A-25-1 (52X)	1B4C	56	1011	1B4C
1B3C-4C	52X/1BC3-4C-4	57296	G080	AK-2A-25-1 (52X)	1B3C-4C	56	1011	1B3C-4C
1B3A	52X/BT-1B3A	57303	G080	AK-2A-50S-2 (52X)	1B3A	56	1011	1B3A
1B3C	52X/BT-1B3C	57309	G080	AK-2A-50S-2 (52X)	1B3C	56	1011	1B3C
1B4B	52X/BT-1B4B	57307	G080	AK-2A-50S-2 (52X)	1B4B	56	1011	IB4B
IB3A	52XX/1B3A	57310	G080	CR120A26241	1B3A	56	1011	EE-8F
1B3B	52XX/1B3B	57311	G080	CR120AS5041	1B3B	56	1011	EE-8F
1B3C	52XX/1B3C	57312	G080	CR120AS5041	1B3C	56	1011	EE-8F

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
1B4A	52XX/1B4A	57313	G080	CR120AS5041	1B4A	56	1011	EE-8G
1848	52XX/1B4B	57314	G080	CR120AS5041	1B4B	56	1011	EE-8G
IB4C	52XX/1B4C	57315	G080	CR120AS5041	IB4C	56	1011	EE-8G
1B3B	52XX/AC-3A	12332	G080	CR120AS5041	1B3B	56	1011	EE-8F
IB4A	52XX/AC-3B	57295	G080	CR120AS5041	1B4A	56	1011	EE-8G
1B3C-4C	52XX/AC-3C	57296	G080	CR120AS5041	1B3C-4C	56	1011	EE-8F
1B3B	52XX/BT-1B3B	57306	G080	CR120AS5041	1B3B	56	1011	EE-8F
1B3C	52XX/BT-1B3C	57309	G080	CR120AS5041	1B3C	56	1011	E-8F
1B4B	52XX/BT-1B4B	57307	G080	CR120AS5041	1B4B	56	1011	EE-8G
1B4C	52XX/BT-1B4C	12255	G080	CR120AS5041	IB4C	56	1011	EE-8G
IB3A	52XX/VA-3A	12333	G080	CR120AS5041	IB3A	56	1011	EE-8F
1A3	52Y/1A3-11	9967	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3
1A3	52Y/1A3-12	9968	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3
1/3	52Y/1A3-13	9969	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3
143	52Y/1A3-16	9962	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3
(A3	52Y/1A3-20	9953	G080	AM-4.16-250-8H (52Y)	IA3	56	1011	EE-1F(D1)
1A3	52Y/1A3-9	9958	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3
1A4	52Y/1A4-1	9980	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	EE-1G(D2)
1A4	52Y/1A4-10	9996	G080	AM-4.16-250-8H (52Y)	IA4	56	1011	1A4
IA4	52Y/1A4-12	9988	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	1A4
1A4	52Y/1A4-8	9994	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	IA4
1A4	52Y/1A4-9	9995	G080	AM-4.16-250-8H (52Y)	1A4	56	1011	1A4
1B3A	52Y/1B3A	57310	G080	AK-2A-50S-2 (52Y)	1B3A	56	1011	TIB-3A
1B3A	52Y/1B3A-4	57294	G080	AK-2A-25-1 (52Y)	1B3A	56	1011	IB3A
1B3A	52Y/1B3A-7	12333	G080	AK-2A-25-1 (52Y)	1B3A	56	1011	1B3A
1B3B	52Y/1B3B	57311	G080	2A-50S-2 (52Y)	1B3B	56	1011	T1B-3B
1B3B	52Y/1B3B-4	12332	G080	AK-2A-25-1 (52Y)	1B3B	56	1011	1B3B
1B3B-4B	52Y/IB3B-4B-5	57297	G080	AK-2A-25-1 (52Y)	1B3B-4B	56	1011	1B3B-4B
1B3C	52Y/1B3C	57312	G080	AK-2A-50S-2 (52Y)	1B3C	56	1011	T1B-3C
184A	52Y/1B4A	57313	G080	AK-2A-50S-2 (52Y)	IB4A	56	1011	TIB-4A
1B4A	52Y/1B4A-1	57295	G080	AK-2A-25-1 (52Y)	IB4A	56	1011	1B4A
1B4B	52Y/1B4B	57314	G080	AK-2A-50S-2 (52Y)	1B4B	56	1011	TIB-4B
1B4C	52Y/1B4C	57315	G080	AK-2A-50S-2 (52Y)	1B4C	56	1011	TIB-4C
1B4C	52Y/1B4C-6	57291	G080	AK-2A-25-1 (52Y)	1B4C	- 56	1011	1B4C

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
1B4C	52Y/1B4C-8	57300	G080	AK-2A-25-1 (52Y)	1B4C	56	1011	IB4C
1A4	52Y/AC-10B	9986	G080	AM-4.16-250-8H (52Y)	1.44	56	1011	1A4
IA3	52Y/AC-10C	9960	G080	AM-4.16-250-8H (52Y)	1A3	56	1011	1A3
1B3C-4C	52Y/AC-3C	57296	G080	AK-2A-25-1 (52Y)	1B3C-4C	56	1011	1B3C-4C
IB3A	52Y/BT-1B3A	57303	G080	AK-2A-50S-2 (52Y)	1B3A	56	1011	IB3A
1B3C	52Y/BT-1B3C	57309	G080	AK-2A-50S-2 (52Y)	1B3C	56	1011	1B3C
IB4B	52Y/BT-1B4B	57307	G080	AK-2A-50S-2 (52Y)	1B4B	56	1011	1B4B
AI-30A(S1-1)	62-1-1/AC-10A	9801	A109	2452PC	AI-30A(S1-1)	77	1036	Al-41A-06
AI-30A(S1-1)	62-1-1/AC-10C	9801	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-1)	62-1-1/AC-3A	9802	A109	2452PC	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-1)	62-1-1/AC-3C	9802	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-1)	62-1-1/CH-1A	9802	A109	2452PD	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-1)	62-1-1/CH-1C	9802	A109	2452Pi	AI-30A(S1-1)	77	1036	AI-41A-06
AI-30A(S1-1)	62-1-1/FW-6	9801	A109	2452PC	AI-30A(S1-1)	77	1036	AI-41A-06
Al-30A(S1-1)	62-1-1/VA-3A	9802	A109	2452PD	A1-30A(S1-1)	77	1036	AI-41A-06
1A3	62-1-1X/AC-10A	9801	G080	12HFA151A2F	1A3-09	56	1011	Al-41A-06
1A3	62-1-1X/AC-10C	9801	G080	12HFA151A2F	1A3-10	56	1011	Al-41A-06
AI-108A	62-1-1X/AC-3A	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06
AI-108A	62-1-1X/AC-3C	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06
AI-108A	62-1-1X/CH-1A	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06
Al-108A	62-1-1X/CH-1C	9802	G080	12HFA151A2F	AI-108A	56	1011	AI-41A-06
1A3	62-1-1X/FW-6	1089	G080	12HFA151A2F	1A3-16	56	1011	AI-41A-06
AI-108A	62-1-1X/VA-3A	9802	G080	12HFA151A2F	AI-108A	56	1011	Al-41A-06
AI-30A(S1-2)	62-1-2/AC-10A	9801	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19
AI-30A(S1-2)	62-1-2/AC-10C	9801	1100	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19
AI-30A(S1-2)	62-1-2/AC-3A	9803	A109	DPCXX012XDAAXAA	Al-30A(S1-2)	77	1036	AI-30A-02-05
AI-30A(S1-2)	62-1-2/AC-3C	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19
AI-30A(S1-2)	62-1-2/CH-1A	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19
AI-30A(S1-2)	62-1-2/CH-1C	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19
AI-30A(S1-2)	62-1-2/FW-6	9801	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	77	1036	AI-40B-19
AI-30A(S1-2)	62-1-2/VA-3A	9803	A109	DPCXX012 XDAAXAA	AI-30A(S1-2)	77	1036	AI-30B-02-04
1A3	62-1-2X/AC-10A	9801	G080	12HFA151A9F	1A3-09	56	1011	AI-40B-19
1A3	62-1-2X/AC-10C	9801	G080	12HFA151A9F	1A3-10	56	1011	AI-40B-19
AI-108A	62-1-2X/AC-3A	9803	G080	12HFA151A9F	AI-108A	- 56	1011	AI-40B-19

Al-108A 62-1-2X/AC-3C 9803 G080 12HFA151A9F Al-108A 56 1011 Al-108A 62-1-2X/CI-1-IA 9803 G080 12HFA151A9F Al-108A 56 1011 Al-108A 62-1-2X/CH-1C 9803 G080 12HFA151A9F Al-108A 56 1011 Al-108A 62-1-2X/FW-6 9801 G080 12HFA151A9F Al-108A 56 1011 Al-108A 62-1-2X/FW-6 9801 G080 12HFA151A9F Al-108A 56 1011 Al-108A 62-1-2X/VA-3A 9803 G080 12HFA151A9F Al-108A 56 1011 Al-108A 62-1-XC-10A 9958 Al09 2412PB 1A3 56 1011 Al-108A 62-1/AC-10B 9986 Al09 2412PB 1A3 56 1011 Al-108A 62-1/AC-10B 9986 Al09 2412PB 1A3 56 1011 Al-3 62-1/AC-10B 9988 Al09 2412PB 1A3 56 1011 BA4 62-1/AC-10D 9988 Al09 2412PB 1A4 56 1011 BB3 62-1/AC-3A 12332 Al09 2412PB 1A4 56 1011 BB3A 62-1/AC-3B 57295 Al09 2412PA 1B3B 56 1011 BB4A 62-1/AC-3B 57295 Al09 2412PA 1B4A 56 1011 BB3C 62-1/AC-3B 57296 Al09 2412PC 1B3C 56 1011 Al-30B(S2-1) 62-2-1/AC-10B 9811 Al09 2452PC Al-30B(S2-1) 77 1036 Al-30B(S2-1) 62-2-1/AC-10B 9811 Al09 2452PC Al-30B(S2-1) 77 1036 Al-30B(S2-1) 62-2-1/AC-3B 9812 Al09 2452PC Al-30B(S2-1) 77 1036 Al-30B(S2-1) 62-2-1/AC-3B 9812 Al09 2452PD Al-30B(S2-1) 77 1036 Al-30B(S2-1) 62-2-1/AC-3C 9812 Al09 2452PD Al-30B(S2-1) 77 1036 Al-30B(S2-1) 62-2-1/AC-3B 9812 Al09 2452PD Al-30B(S2-1) 77 1036 Al-30B(S2-1) 62-2-1/AC-10B 9811 Al09 DPCXX012XDAXAA Al-30B(S2-2) 77 1036 Al-30B(S2-2) 62-2-1/AC-10B 9811 Al09 DPCXX012XDAXAA Al-30B(S2-2) 77 1036 Al-30B(S2-2) 62-2-2/AC-10B 9813 Al09 DPCXX012XDAXAA Al-30B(S2-2) 77 1036 Al-30B(S2-2) 62-2-2/AC-10B 9813 Al09 DPCXX012XDAXAA Al-30B(S2-2) 77 1036	POWER
Al-108A 62-1-2X/CH-IC 9803 G080 12HFA151A9F Al-108A 56 1011 IA3 62-1-XVFW-6 9801 G080 12HFA151A9F IA3-16 56 1011 Al-108A 62-1-2X/VA-3A 9803 G080 12HFA151A9F Al-108A 56 1011 IA3 62-1/AC-10A 9958 Al09 2412PB IA3 56 1011 IA4 62-1/AC-10B 9986 Al09 2412PB IA4 56 1011 IA3 62-1/AC-10C 9960 Al09 2412PB IA4 56 1011 IA3 62-1/AC-10C 9960 Al09 2412PB IA4 56 1011 IA3 62-1/AC-3A I2332 Al09 2412PB IA4 56 I011 IB3B 62-1/AC-3B 57295 Al09 2412PA IB3B 56 I011 IB4A 62-1/AC-3B 57295 Al09 2412PA IB3A 56 I011 IB3C 62-1/AC-3B 57295 Al09 2412PC IB3C 56 I011 IB3C 62-1/AC-3B 9811 Al09 2452PC Al-30B(S2-1) 77 I036 Al-30B(S2-1) 62-2-1/AC-3B 9811 Al09 2452PC Al-30B(S2-1) 77 I036 Al-30B(S2-1) 62-2-1/AC-3B 9812 Al09 2452PC Al-30B(S2-1) 77 I036 Al-30B(S2-1) 62-2-1/AC-3B 9812 Al09 2452PC Al-30B(S2-1) 77 I036 Al-30B(S2-1) 62-2-1/AC-3B 9812 Al09 2452PD Al-30B(S2-1) 77 I036 Al-30B(S2-1) 79 I036 Al-30B(S2-2) 77 I036 Al-30B(S2-2) 62-2-1X/AC-3	AI-40B-19
1A3 62-1-2X/FW-6 9801 G080 12HFA151A9F 1A3-16 56 1011 A1-108A 62-1-2X/VA-3A 9803 G080 12HFA151A9F A1-108A 56 1011 A3 62-1/AC-10A 9958 A109 2412PB 1A3 56 1011 A4 62-1/AC-10B 9966 A109 2412PB 1A4 56 1011 A3 62-1/AC-10C 9960 A109 2412PB 1A3 56 1011 A4 62-1/AC-10D 9988 A109 2412PB 1A4 56 1011 B3B 62-1/AC-3A 12332 A109 2412PB 1A4 56 1011 B3B 62-1/AC-3B 57295 A109 2412PA 1B3B 56 1011 B3C 62-1/AC-3C 57296 A109 2412PC 1B3C 56 1011 B3C 62-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 A1-30B(S2-2) 77 1036 A1-30B	AI-40B-19
Al-108A 62-1-2X/VA-3A 9803 G080 12HFA151A9F Al-108A 56 1011 IA3 62-1/AC-10A 9958 A109 2412PB 1A3 56 1011 IA4 62-1/AC-10B 9966 A109 2412PB 1A4 56 1011 IA3 62-1/AC-10C 9960 A109 2412PB 1A3 56 1011 IA4 62-1/AC-10D 9988 A109 2412PB 1A3 56 1011 IA4 62-1/AC-10D 9988 A109 2412PB 1A4 56 1011 IB3B 62-1/AC-3A 12332 A109 2412PA 1B3B 56 1011 IB4A 62-1/AC-3B 57295 A109 2412PA 1B4A 56 1011 IB3C 62-1/AC-3B 57296 A109 2412PA 1B4A 56 1011 IB3C 62-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PD A1-30B(S2-1) 77	AI-40B-19
1A3 62-1/AC-10A 9958 A109 2412PB 1A3 56 1011 1A4 62-1/AC-10B 9986 A109 2412PB 1A4 56 1011 1A3 62-1/AC-10C 9960 A109 2412PB 1A3 56 1011 1A4 62-1/AC-10D 9988 A109 2412PB 1A4 56 1011 1B3B 62-1/AC-3A 12332 A109 2412PA 1B3B 56 1011 1B3A 62-1/AC-3B 57295 A109 2412PA 1B3A 56 1011 1B3C 62-1/AC-3B 57295 A109 2412PC 1B3C 56 1011 1B3C 62-1/AC-3B 9511 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1B 9811 G080 12HFA151A2F A1-108B 56 1011 A1-108B 62-2-1X/AC-3B 9812 G080 12HFA151A2F A1-108B 56	Al-40B-19
1A4 62-I/AC-10B 9986 A109 2412PB 1A4 56 1011 1A3 62-I/AC-10C 9960 A109 2412PB 1A3 56 1011 1A4 62-I/AC-10D 9988 A109 2412PB 1A4 56 1011 1B3B 62-I/AC-3A 12332 A109 2412PA 1B3B 56 1011 1B4A 62-I/AC-3B 57295 A109 2412PA 1B4A 56 1011 1B3C 62-I/AC-3C 57296 A109 2412PC 1B3C 56 1011 1B3C 62-I/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-I/AC-10D 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-I/AC-3C 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-I/AC-3C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-I/AC-3C 9811 G080 12HFA151A2F 1A4 56 1011 A1-108B 62-2-IX/AC-3B 9812 G080 12HFA151A2F A1-108B 56	AI-40B-19
1A3 62-1/AC-10C 9960 A109 2412PB 1A3 56 1011 1A4 62-1/AC-10D 9988 A109 2412PB 1A4 56 1011 1B3B 62-1/AC-3A 12332 A109 2412PA 1B3B 56 1011 1B4A 62-1/AC-3B 57295 A109 2412PA 1B3B 56 1011 1B3C 62-1/AC-3C 57296 A109 2412PC 1B3C 56 1011 1B3C 62-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-10D 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-10B 9811 G080 12HFA151A2F 1A4 56 1011 A1-108B 62-2-1X/AC-10B 9811 G080 12HFA151A2F A1-108B 56 1011 A1-108B 62-2-1X/AC-3B 9812 G080 12HFA151A2F A1-108B 56 1011 A1-108B 62-2-1X/AC-3B 9811 A109 DPCXX012XDAAXAA A1-30B(S2-2) 77 1036 A1-30B(S2-2) 62-2-2/AC-10B 9811 A109 DPCXX012XDAAXAA A1-30B(S2-2) 77 1036 A1-30B(S2-2) 62-2-2/AC-3B 98	EE-8F
1A4 62-1/AC-10D 9988 A109 2412PB 1A4 56 1011 1B3B 62-1/AC-3A 12332 A109 2412PA 1B3B 56 1011 1B4A 62-1/AC-3B 57295 A109 2412PA 1B4A 56 1011 1B3C 62-1/AC-3C 57296 A109 2412PC 1B3C 56 1011 1B3C 62-1/AC-10B 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-10D 9811 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3B 9812 A109 2452PC A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/AC-3C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1B 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1C 9812 A109 2452PD A1-30B(S2-1) 77 1036 A1-30B(S2-1) 62-2-1/CH-1C 9812 A109 2452PD	EE-8G
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AI-108B 62-2-1X/AC-3C 9812 G080 12HFA151A2F AI-108B 56 1011 AI-108B 62-2-1X/CH-1B 9812 G080 12HFA151A2F AI-108B 56 1011 AI-108B 62-2-1X/CH-1C 9812 G080 12HFA151A2F AI-108B 56 1011 AI-108B 62-2-1X/VA-3B 9812 G080 12HFA151A2F AI-108B 56 1011 AI-30B(S2-2) 62-2-2/AC-10B 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-41B 06
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AI-108B 62-2-1X/CH-1C 9812 G080 12HFA151A2F AI-108B 56 1011 AI-108B 62-2-1X/VA-3B 9812 G080 12HFA151A2F AI-108B 56 1011 AI-30B(S2-2) 62-2-2/AC-10B 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-10D 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-41B-06
AI-108B 62-2-1X/VA-3B 9812 G080 12HFA151A2F AI-108B 56 1011 AI-30B(S2-2) 62-2-2/AC-10B 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-10D 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-41B-06
AI-30B(S2-2) 62-2-2/AC-10B 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-10D 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	Al-41B-06
AI-30B(S2-2) 62-2-2/AC-10D 9811 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-41B-06
AI-30B(S2-2) 62-2-2/AC-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036 AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-40A-21
AI-30B(S2-2) 62-2-2/AC-3C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-40A-21
	AI-40A-21
Al-30B(\$2-2) 62-2-2/CH-1B 9813 A109 DPCXX012XDAAXAA Al-30B(\$2-2) 77 1036	AI-40A-21
1030	AI-40A-21
AI-30B(S2-2) 62-2-2/CH-1C 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-40A-21
AI-30B(S2-2) 62-2-2/VA-3B 9813 A109 DPCXX012XDAAXAA AI-30B(S2-2) 77 1036	AI-40A-21
1A4 62-2-2X/AC-10B 9811 G080 12HFA151A9F 1A4 56 1011	EE-8G

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
1A4	62-2-2X/AC-10D	9811	G080	12HFA151A9F	1A4	56	1011	EE-8G
AI-108B	62-2-2X/AC-3B	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21
AI-108B	62-2-2X/AC-3C	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21
AI-108B	62-2-2X/CH-1B	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21
AI-108B	62-2-2X/CH-1C	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21
AI-108B	62-2-2X/VA-3B	9813	G080	12HFA151A9F	AI-108B	56	1011	AI-40A-21
AC-DC-2	62X/PCS-224	57294	A109	2412PE	AC-DC-2	77	1036	NA
AC-DC-2	62X/PCS-227	57291	A109	2412PE	AC-DC-2	77	1036	NA
AC-DC-2	62X/PCS-230	57297	A109	2412PE	AC-DC-2	77	1036	NA
AC-DC-2	63X-2/LC-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20
AC-DC-2	63X/LCA-101	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20
AC-DC-2	63X/PCS-226	57294	G080	CR120A26241	AC-DC-2	77	1036	NA
AC-DC-2	63X/PCS-229	57291	G080	CR120A26241	AC-DC-2	77	1036	NA
AC-DC-2	63X/PCS-232	57297	G080	CR120A26241	AC-DC-2	77	1036	NA
AC-DC-2	63XA/LC-101-1	9513	G080	12HFA151A9H	AC-DC-2	77	1036	A1-40A-20
AC-DC-2	63XA/LC-101-2	9513	G080	12HFA151A9H	AC-DC-2	77	1036	AI-40A-20
AI-54B	94-17/FD	9828	G080	CR120A26941	AI-54B	77	1036	AI-41A-09
AI-54B	94-17X/FD	39723	P297	KUP5D15	AI-54B	77	1036	NA
AI-54B	94-18/FD	9828	G080	CR120A26941	AI-54B	77	1036	AI-41A-09
AI-54B	94-18X/FD	39723	P297	KUP5D	AI-54B	77	1036	NA
AI-30A(D1)	AC-A/IADI	9808	G080	12HFA51A425	AJ-30A(D1)	77	1036	AI-41A-06
Al-30B(D2)	AC-A/1AD2	9818	G080	12HFA51A42F	AI-30B(D2)	77	1036	AI-41A-13
AJ-30A(D1)	AC-AX/1AD1	9808	A109	2452PB	AI-30A(D1)	77	1036	AI-41A-06
Al-30B(D2)	AC-AX/IAD2	9818	A109	2452PB	AI-30B(D2)	77	1036	AI-41A-13
Al-30A(D1)	AC-B/1AD1	9808	G980	12HFA51A42F	AI-30A(D1)	77	1036	AI-41B-13
AI-30B(D2)	AC-B/1AD2	9818	G080	12HFA51A42F	AI-30B(D2)	77 *	1036	AI-41B-06
AI-30A(D1)	AC-BX/!AD1	9808	A109	2452PB	AI-30A(D1)	77	1036	Al-41B-13
AI-30B(D2)	AC-BX/1AD2	9818	A109	2452PB	AI-30B(D2)	77	1036	AI-41B-06
AI-4B	LC-101-1	9513	R335	ET-222	AI-4B	77	1036	Al-40A-20
AI-4B	LC-101-2	9513	R335	ET-222	AI-4B	77	1036	AI-42A-07
AI-4A	LCA-101X	9513	F180	CUSTOM 63U	AI-4A	77	1036	AI-40A-20
AI-4B	LCA-101Y	9513	F180	CUSTOM 63U	AI-4B	77	1036	AI-40B-21
PCS-224	PCS-224	57294	B074	E1H-H15	50WT-8N'6E	6	993	NA

9/8/95

BOX	RELAY	FILE	MFG	MODEL	LOCATION	RM	ELEV	POWER
PCS-227	PCS-227	57291	B074	E1H-H15	35WT-10N'6E	6	992	NA
PCS-229	PCS-229	57291	F180	43E	32WT-1N6E	6	992	AI-40B-21
PCS-230	PCS-230	57297	B074	E1H-H15	18WT-9N'6D	6	993	NA
PCS-232	PCS-232	57297	F180	43E	12WT-1N6E	6	992	AI-40D-1
AI-56	POX-1	39723	P435	XL-3	AI-56	77	1036	NA

APPENDIX F.

"BAD ACTOR" (LOW RUGGEDNESS) (Ref. 5.2) RELAY LIST

"Bad Actors" Found In the ARL (Ref. 5.3)

Relay ID	Manufacturer	Model	Equipment ID	Essential?
62-2-2X/FW-10*	GE	HGA111J2	YCV-1045 YCV-1045A YCV-1045B	N
87/1AD1-1	GE	CFD12B1A	1A3-20 DG-1	Y
87/1AD1-2	GE	CFD12B1A	1A3-20 DG-1	Y
87/1AD1-3	GE	CFD12B1A	1A3-20 DG-1	Y
87/1AD2-1	GE	CFD12B1A	1A4-1 DG-2	Y
87/1AD2-2	GE	CFD12B1A	1A4-1 DG-2	Y
87/1AD2-3	GE	CFD12B1A	1A4-1 DG-2	Y

^{*} In line with the requirements of Appendix E of Ref. 5.2, it was verified that this relay is in the deenergized, normally closed mode for each of the equipment shown.

APPENDIX G.

LIST OF OUTLIER RELAYS WITH THEIR RESOLUTION

APPENDIX G: LIST OF OUTLIER RELAYS WITH THEIR RESOLUTION

RELAY	FILE	MFG	MODEL	LOCATION	RESOLUTION ACTION	STATUS/SCHEDULE
183X1	43388	G080	12HFA151A2H	AI-109B	Operator action to reestablish pressure control.	Complete
63X-1/LC-101	9513	G080	12HFA151A9H	AC-DC-2	Operator action to reestablish pressure control.	Complete
63X-1/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	Operator action to reestablish pressure control.	Complete
63X-1/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	Operator action to reestablish pressure control.	Complete
86X-B-A1/CPHS	5976	G080	12HFA151A2F	AI-43B	Circuit modified to delete relay per MR-FC-92-044.	Complete
87/1AD1-1	9405	G080	12CFD12B1A	AJ-24	Replacement per MR-FC-95-003.	9/1998
87/1AD1-2	9405	G080	12CFD12B1A	AI-24	Replacement per MR-FC-95-003.	9/1998
87/1AD1-3	9405	G080	12CFD12B1A	AI-24	Replacement per MR-FC-95-003.	9/1998
87/1AD2-1	9405	G080	12CFD12B1A	AI-25	Replacement per MR-PC-95-003.	9/1998
87/1AD2-2	9405	G080	12CFD12B1A	AI-25	Replacement per MR-PC-95-003.	9/1998
87/1AD2-3	9405	G080	12CFD12B1A	AI-25	Replacement per MR-FC-95-003.	9/1998
94-B3/LS	43388	G080	12HFA151A2H	AI-109B	Operator action to reestablish pressure control.	Complete
94/1	43399	G080	CR2810	MCC-3A1	Operator action to reestablish pressure control.	Complete
94/10	43402	G080	CR2810	MCC-4C1	Operator action to reestablish pressure control.	Complete
94/11	43402	G080	CR2810	MCC-4Ci	Operator action to reestablish pressure control.	Complete
94/12	43402	G080	CR2810	MCC-4C1	Operator action to reestablish pressure control.	Complete
94/2	43399	G080	CR2810	MCC-3A1	Operator action to reestablish pressure control.	Complete
94/3	43399	G080	CR2810	MCC-3A1	Operator action to reestablish pressure control.	Complete
D1-112	17397	G080	VB152	Di	Qualification test/Replacement per ECN 95-347	9/1997
DI-44-SVIX	17396	C770	1060	DI	Qualification test/Replacement per ECN 95-347	9/1997
D1-45-SV2X	17396	C770	1060	DI	Qualification test/Replacement per ECN 95-347	9/1997
D1-66-42BPM1	17397	C770	A10CN0	DI	Qualification test/Replacement per ECN 95-347	9/1997
D1-67-42BPM2	17397	C770	A10CN0	DI	Qualification test/Replacement per ECN 95-347	9/1997
D1-68-42FP	17397	S972	77U32	DI	Qualification test/Replacement per ECN 95-347	9/1997
D2-112	17397	G080	VB152	D2	Qualification test/Replacement per ECN 95-347	9/1997
D2-44-SV1X	17395	C770	1060	D2	Qualification test/Replacement per ECN 95-347	9/1997
D2-45-SV2X	17396	C770	1060	D2	Qualification test/Replacement per ECN 95-347	9/1997
D2-66-42BPM1	17397	C770	A10CN0	D2	Qualification test/Replacement per ECN 95-347	9/1997
D2-67-42BPM2	17397	C770	A10CN0	D2	Qualification test/Replacement per ECN 95-347	9/1997
D2-68-42FP	17397	5972	77U32	D2	Qualification test/Replacement per ECN 95-347	9/1997
LC-101X	9513	F180	M/63U-ET-OHAR	AI-4A	Operator action to reestablish pressure control.	Complete
LC-101Y	9513	F180	M/63U-ET-OHAR	AI-4B	Operator action to reestablish pressure control.	Complete
LIC-101X	9513	S185	9223-11E	AI-4A	Operator action to reestablish pressure control.	Complete
LIC-101Y	9513	S185	9223-I1E	AI-4B	Operator action to reestablish pressure control.	Complete

APPENDIX H.

RELAY TABULATION FORMS (DOCUMENTING DCA AND SCS), BASED ON EPRI NP-7148-SL (REF. 5.2) FORM G-4

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-10 SYSTEM: AC-RW

DESCRIPTION: 4.16KV FEEDER BREAKER TO AC-10C

CLASS: 3 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1A3

P and ID: 12234 POWER: 1A3

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A3	9397	G080	12IAV53L1A	1A3	CA
27-1/\$1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1/\$1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A3	9397	A109	2452PB	AI-24A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T1S1/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T2/1A3	57241	A109	2452PB	AI-24A	SWGR
27T2S/1A3	57241	G080	12HFA151A2H	AI-24A	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-D	1,951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
49-50-83/AC-10C-1	9960	G080	12IAC66K8A	1A3	SWGR
49-50-83/AC-10C-2	9960	G080	12IAC66K8A	1A3	SWGR
49-50-83/AC-10C-3	9960	G080	12IAC66K8A	1A3	SWGR
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1A3-10	9960	G080	AM-4.16-250-8H (52/TC)	1A3	SWGR
52X/1A3-10	9960	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52Y/AC-10C	9960	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
62-1-1/AC-10C	9801	A109	2452PD	AI-30A(S1-1)	SWGR
62-1-1X/AC-10C	9801	G080	12HFA151A2F	1A3	SWGR
62-1-2/AC-10C	9801	A109	DPCXX012XDAAXAA	AI-30A(\$1-2)	SWGR
62-1-2X/AC-10C	9801	G080	12HFA151A9F	1A3	SWGR
62-1/AC-10C	9960	A109	2412PB	1A3	SWGR
86-1/\$1-1	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	SCS
86-1/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS

86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEAC C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEAG1C244 or X2	AI-30A(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PtA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/P1A-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

POTUBLISHED DISPOSITION.

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON:	OSTION: Screened			
PREPARED BY:	J.K. Mathew Oke	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-11 SYSTEM: EE-4A

DESCRIPTION: 4.16KV FEEDER BREAKER TO XFMR T1B-3A CLASS: 3

FUNCT: A PATH: AUX/EE

ROOM: 56

ELEVATION: 1011 LOCATION: 1A3

POWER: 1A3 P and ID: 12234

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
50-51/T1B-3A-1	9967	G080	12IAC66B16A	1A3	SWGR
50-51/T1B-3A-2	9967	G080	12IAC66B16A	1A3	SWGR
50-51/T1B-3A-3	9967	G080	12IAC66B16A	1A3	SWGR
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1A3-11	9967	G080	AM-4.16-250-8H (52/TC)	1A3	SWGR
52X/1A3-11	9967	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52Y/1A3-11	9967	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A3-TFB	9406	G080	12HEi\61C239 or X2	AI-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

alle

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-12 SYSTEM: EE-4A

DESCRIPTION: 4.16KV FEEDER BREAKER TO XFMR T1B-3B CLASS: 3 FUNCT: A PATH: AU

CLASS: 3 FUNCT: A PATH: AUX/EE RGOM: 56 ELEVATION: 1011 LOCATION: 1A3

P and ID: 12234 POWER: 1A3

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
50-51/T1B-3B-1	9968	G080	12IAC66B16A	1A3	SWGR
50-51/T1B-3B-2	9968	G080	12IAC66B16A	1A3	SWGR
50-51/T1B-3B-3	9968	G080	12IAC66B16A	1A3	SWGR
51/1A13-1	9401	G080	12IAC53A101A	A1-24	SCS
51/1A13-2	9401	G080	12IAC53A10IA	AI-24	SCS
51/1A13-3	9401	G080	12IAC57A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53.4-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-873A	A.I-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1A3-12	9968	G080	AM-4.16-250-8H (52/TC)	1A.3	SWGR
52X/1A3-12	9968	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52Y/1A3-12	9968	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
86/1A13	9401	G080	12HEA61C238 or X2	AI-2+	SCS
86/1A3-TFB	9406	G080	12HEA61C239 or X2	A1-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

alle

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

_ DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-13

SYSTEM: EE-4A

DESCRIPTION: 4.16KV FEEDER BREAKER TO XFMR T1B-3C

CLASS: 3

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1A3

P and ID:

POWER: 1A3

12234

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
50-51/T1B-3C-1	9969	G080	12IAC66B16A	1A3	SWGR
50-51/T1B-3C-2	9969	G080	12IAC66B16A	1A3 ·	SWGR
50-51/T1B-3C-3	9969	G080	12IAC66B16A	1A3	SWGR
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1A3-13	9969	G080	AM-4.16-250-8H (52/TC)	1A3	SWGR
52X/1A3-13	9969	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52Y/1A3-13	9969	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A3-TFB	9406	G080	12HEA61C239 or X2	AI-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App. D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Que	DATE:	9/8/95	
VEDIEIED BV.	DE Mahaffau	F) 4 MW	0/9/05	

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-16 SYSTEM: FW-AFW

DESCRIPTION: 4.16KV FEEDER BREAKER TO FW-6

CLASS: 3 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1A3

P and ID: 12234 POWER: 1A3

NORMAL STATE: *O* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2G-2-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
3/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
3/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
3/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2B 2-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
3/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	Al-199	SCS
7-1/1A3	9397	G080	12IAV53L1A	1A3	CA
7-1/\$1-1	9804	G080	12HFA51A42F	AI-30A(SI-1)	SWGR
7-1/\$1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	SWGR
7-2/1A3	9397	G080	12IAV53L1A	1A3	CA
7-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
7-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
7-TI/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
7-TI/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
7T1/1A3	9397	A109	2452PB	AI-24A	SWGR
7T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
7T1S1/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
7T2/1A3	57241	A109	2452PB	AI-24A	SWGR
7T2S/1A3	57241	G080	12HFA151A2H	AI-24A	SWGR
7XI/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS

27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
49-50-83/FW-6-1	9962	G080	12IAC66K8A	1A3	SWGR
49-50-83/FW-6-2	9962	G000	12IAC66K8A	1A3	SWGR
49-50-83/FW-6-3	9962	G080	12IAC66K8A	1A3	SWGR
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A5.3-2	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33 3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1A3-1C	9962	G080	AM-4.16-250-8H (52/TC)	1A3	SWGR
52X/1A3-16	9962	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52Y/1A3-16	9962	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
62-1-1/FW-6	9801	A109	2452PC	AI-30A(S1-1)	SWGR
62-1-1X/FW-6	9801	G080	12HFA151A2F	1A3	SWGR
62-1-2/FW-6	9801	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	SWGR
62-1-2X/FW-6	1036	G080	12HFA151A9F	1A3	SWGR
86-1/S1-1	9804	G080	12HEA61C241 or X2	A1-30A(S1-1)	SCS
86-1/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A1/RC-2B/AFWS	16145	G080	12HFA151A2H	A1-66A	SCS
B/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
B/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
B1/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
B1/RC-2B/AFWS	16145	G080	12HFA151A2H	A!-66B	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS

D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent 'rip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

Chicar

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey - 7-2

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-20

SYSTEM: DG

DESCRIPTION:

DG1 FEEDER BREAKER 4.16KV BUS 1A3

LASS: 3

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1A3

P and ID:

12234

POWER: DG1

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
ICR/DI	6622	P297	CST-38-70010	AI-133A	SWGR
ICRX/D1	17397	P297	KRP14DG	DI ·	SWGR
27-1/1A3	9397	G080	12IAV53L1A	1A3	CA
27-1/DI	9808	G080	12PJV11AFIA	AI-133A	SWGR
27-1XA/D1	9808	G080	12HFA51A42F	AI-30A(D1)	SCS
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2/D1	9808	G080	12PJV11AFIA	AI-133A	SWGR
27-2XB/D1	9808	G080	12HFA51A42F	AI-30A(D1)	SCS
27-3X/1A3	57238	P297	KAP14DG	AI-23A	SCS
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1X/1A1	57238	G080	12HFA51A42H	AI-23A	CA
27T1Y/1A1	57238	G080	12HFA51A42H	AI-23A	CA
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
50-51/D1-1	9405	G080	12IAC51B17A	A1-24	CA
50-51/D1-2	9405	G080	12IAC51B17A	AI-24	CA
50-51/D1-3	9405	G080	12IAC51B17A	AI-24	CA
50-51/T1A-1-1	9407	G080	12IAC53B50A	A1-23	CA
50-51/T1A-1-2	9407	G080	12IAC53B50A	AI-23	CA
50-51/T1A-1-3	9407	G080	121AC53B50A	A1-23	CA
50-51/T1A-2-1	9407	G080	12IAC53B50A	A1-26	CA
50-51/T1A-2-2	9407	G080	12IAC53B50A	A1-26	CA
50-51/T1A-2-3	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-3-1	9407	G080	12IAC53B2A	AI-24	CA
50-51/T1A-3-2	9407	G080	121AC53B2A	AI-24	CA
50-51/T1A-3-3	9407	G080	12IAC53B2A	AI-24	CA
51/1A11-1	9400	G080	12IAC53A101A	AI-23	CA
51/1A11-2	9400	G080	12IAC53A10IA	A1-23	CA
51/1A11-3	9400	G080	12IAC53A101A	AI-23	CA
51/1A13-1	9401	G080	12IAC53A101A	A1-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	A1-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A24-1	9403	G080	12IAC53A101A	A1-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A31-1	9400	G080	12IAC53A10IA	AI-23	CA
51/1A31-2	9400	G080	12IAC53A10IA	AI-23	CA

51/1A31-3	9400	G080	12IAC53A101A	AI-23	CA
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A44-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	A1-25	SCS
52/TC/1A3-20	9953	G080	AM-4.16-250-8H (52/TC)	1A3	SWGR
52X/1A3-20	9953	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52XX-2/4	9406	G080	12HFA54E187H	52XX-2/4	CA
52XX-2/5	9406	G080	12HFA54E187H	52XX-2/5	CA
52Y/1A3-20	9953	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
63FP/T1A-3	9407	G080	TYPE J	T1A-3	CA
63FPX-1/T1A-3	9407	P297	KAPIIDG	AI-24	CA
63FPX/T1A-3	9407	G080	CR2790E100	T1A-3	CA
67/D1	9405	G080	12GGP53B1A	AI-24	CA
86-1/T1A-3	9407	G080	12HEA61C239 or X2	AI-24	CA
86-2/SVG1	9406	G080	12HEA61C239 or X2	A1-22	CA
86-2/T1A-3	9407	G080	12HEA61C239 or X2	AI-24	CA
86-3/G1	9407	G080	12HEA61C239 or X2	Al-21	CA
86-3/GT1	9407	G080	12HEA61C239 or X2	AI-21	CA
86/161	9410	G080	12HEA61C	AI-22	SCS
86/1A11	9400	G080	12HEA61C238 or X2	AI-23	CA
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A31	9400	G080	12HEA61C238 or X2	AI-23	CA
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A4-TFB	9406	G080	12HEA61C239 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/D1	9405	G080	12HEA61C239 or X2	AI-24	SCS
86/D2	9405	G080	12HEA61C239 or X2	AI-25	SCS
86A-OR/IADI	9808	G080	12HEA61C238 or X2	AI-30A(D1)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/D1	9808	G080	12HEA61C238 or X2	AI-30A(D1)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B-OR/IADI	9808	G080	12HEA61C238 or X2	AI-30A(D1)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/D1	9808	G080	12HEA61C238 or X2	AI-30A(D1)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
87/161-1	9410	G080	12IFD5/ 41A	A1-22	CA
87/161-2	9410	G080	12IFD' IAIA	AI-22	CA
87/161-3	9410	G080	12IFT 51A1A	AI-22	CA
87/1AD1-1	9405	G080	12CF 212B1A	AI-24	OUT
87/1AD1-2	9405	G080	12CFD12B1A	A1-24	OUT
87/1AD1-3	9405	G080	12CFD12B1A	AI-24	OUT
87/GT1-1	9407	G080	12B/2D16B11A	AI-21	CA
87/GT1-2	9407	G080	12BDD16B11A	AI-21	CA
87/GT1-3	9407	G080	12BDD16B11A	A1-21	CA
87/T1A-1-1	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-1-2	9407	G080	12BDD15B11A	A1-23	CA
87/T1A-1-3	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-2-1	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-2-2	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-2-3	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-3-1	9407	G080	12BDD15B11A	AI-24	CA
87/T1A-3-2	9407	G080	12BDD15B11A	AI-24	CA

87/T1A-3-3	9407	G080	12BDD15B11A	AI-24	CA
89XX-3/DST1	9406	G080	12HFA54E187H	89XX-3/DST1	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
AC-A/1AD1	9808	G080	12HFA51A42F	AI-30A(D1)	SWGR
AC-AX/IADI	9808	A109	2452PB	AI-30A(D1)	SWGR
AC-B/IADI	9808	G080	12HFA51A42F	AI-30A(D1)	SWGR
AC-BX/IADI	9808	A109	2452PB	AI-30A(D1)	SWGR
AI-3-M1	1587	A160	702-DAD94	AI-3	CA
AI-3-M2	1587	A160	702-DAD94	AI-3	CA
AI-31A-AW7-K(AB)I	1587	C490	6924-34460	AI-31A	SCS
AI-31A-AW7-K(AB)2	1587	C490	6924-34460	AI-31A	SCS
AI-31B-BW19-K1	1587	S345	8501-GD0-26	AI-31B	CA
AI-31B-BW19-K11	1587	C346	HG3A-1008	AI-31B	SCS
Al-31B-BW19-K13	1587	C346	HG3A-1008	AI-31B	SCS
AI-31B-BW19-KTD1	1587	A160	700-NT200-A1	AI-31B	SCS
AI-31B-BW20-K3	1587	S345	8501-GD0-26	AI-31B	CA
AI-31B-BW6-K(BC)1	1587	C490	6924-34460	Al-31B	SCS
AI-31B-BW6-K(BC)2	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW7-K(BD)1	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW7-K(BD)2	1587	C490	6924-34460	AI-31B	SCS
Al-31B-IR-1	1587	A109	EGPI	AI-31B	SCS
AI-31B-IR-2	1587	A109	EGPI	A1-31B	SCS
AI-31C-CW6-K(AC)1	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW6-K(AC)2	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW7-K(CD)1	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW7-K(CD)2	1587	C490	6924-34460	Al-31C	SCS
AI-31D-DW6-K(AD)1	1587	C490	6924-34460	AI-31D	SCS
Al-31D-DW6-K(AD)2	1587	C490	6924-34460	AI-31D	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	\$382	12N6BB4NXCIAJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2 D/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y			9223-30-E	CB-1,2,3	CA
	9829	S185			SCS
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	
D1-112	17397	G080	VB152	D1	OUT
D1-21-104E1	17396	P297	KRP14DG	DI	SCS
D1-21-104E2	17396	P297	KRP14DG	DI	SCS
D1-21-104N	17397	P297	KRP14DG	DI	SCS
D1-21-105	17397	P297	KRP14DG	DI	SCS
D1-21-105X	17397	P297	KRP14DG	DI	SCS
D1-21-112X1	17397	P297	KRP14DG	DI	SCS
D1-21-127E2	17398	P297	KRP14DG	DI	SCS
D1-21-PS7X2	17397	P297	KRP14DG	DI	SCS
D1-21-PS9X	17397	P297	KRP14DG	DI	SCS
D1-21-TDSTX	17397	P297	KRP14DG	DI	SCS
DI-46-TDL	17397	A109	2412PD	AI-133A	SCS
D1-52-TDSR	17397	A109	2412PD	AI-133A	SCS

PCA-3349	17397	E147	8362040	DG-1	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
PS-6019-1	17397	S382	6N-AA3-S1-PP	DG-I	CA
RSI/DI	17396	P297	KRP14DG	AI-133A	SCS
RS2/D1	17396	P297	KRP14DG	Ai-133A	SCS
TCA-3345	17397	F081	22800-0	DG-1	CA
YT-6048	17398	S519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in all modes in direct path of lockout relay. Corrective ation is necessary;

2) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

3) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box".

4) Functionally screened relays are from DG Anticipatory Start Circuitry;

5) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

6) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

7) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

8) D/G Breaker protection is overridden in an emergency start and breaker close. Engine shutdown by the "86" Lockout relay is also overridden by the engine emergency start.

9) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	POSTION: Not Screened			
REASON:	Equipment Affected by outlie	r relays (see OSVS).		
PREPARED BY:	J.K. Mathew Que	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A3-9 SYSTEM: AC-RW

DESCRIPTION: 4.16KV FEEDER BREAKER TO AC-10A

CLASS: 3 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1A3

P and ID: 12234 POWER: 1A3

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A3	9397	G080	12IAV53L1A	1A3	CA
27-1/\$1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1/\$1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	IA3	CA
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A3	9397	A109	2452PB	AI-24A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27Γ1S1/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T2/1A3	57241	A109	2452PB	AI-24A	SWGR
27T2S/1A3	57241	G080	12HFA151A2H	AI-24A	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
49-50-83/AC-10A-1	9958	G080	12IAC66K8A	1A3	SWGR
49-50-83/AC-10A-2	9958	G080	12IAC66K8A	1A3	SWGR
49-50-83/AC-10A-3	9958	G080	12IAC66K8A	1A3	SWGR
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A10IA	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1A3-9	9958	G080	AM-4.16-250-8H (52/TC)	1A3	SWGR
52X/1A3-9	9958	G080	AM-4.16-250-8H (52X)	1A3	SWGR
52Y/1A3-9	9958	G080	AM-4.16-250-8H (52Y)	1A3	SWGR
62-1-1/AC-10A	9801	A109	2452PC	AI-30A(S1-1)	SWGR
62-1-1X/AC-10A	9801	G080	12HFA151A2F	1A3	SWGR
62-1-2/AC-10A	9801	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	SWGR
52-1-2X/AC-10A	9801	G080	12HFA151A9F	1A3	SWGR
62-1/AC-10A	9958	A109	2412PB	1A3	SWGR
86-1/\$1-1	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	SCS
86-1/\$1-2	9805	G080	12HEA61C241 or X2	A1-30A(S1-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS

86B/OPLS	16951	G080	12HEA61C239 or X2	A!-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/P1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1 .	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) These dropout the clutches to trip the reactor. Depending on when the chatter occurs to could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Olive	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: 1A4-1

SYSTEM: DG

DESCRIPTION: DG2 FEEDER BREAKER 4.16KV BUS 1A4

CLASS: 3

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1A4

P and ID:

POWER: DG2 12234

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X3	43388	G080	12HFA151A2H	AI-109B	SWGR
ICR/D2	6622	P297	CST-38-70010	AI-133B	SWGR
ICRX/D2	17397	P297	KRP14DG	D2	SWGR
27-1/1A2	57240	G080	12IAV53L1A	1A2	CA
27-1/1A4	9398	G080	121AV53L1A	1A4	CA
27-1/D2	9818	G080	12PJV11AFIA	AI-133B	SWGR
27-1XA/D2	9818	G080	12HFA151A2F	AI-30B(D2)	SCS
27-2/1A2	57240	G080	12IAV53L1A	1A2	CA
27-2/1A4	9398	G080	12IAV53L1A	1A4	CA
27-2/D2	9818	G080	12PJV11AFIA	AI-133B	SWGR
27-2XB/D2	9818	G080	12HFA151A2F	AI-30B(D2)	SCS
7-3X/1A4	57240	P297	KAP14DG	AI-25A	SCS
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
7-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
7-TI/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A2	57240	A109	2452PB	A1-26A	CA
27T1X/1A2	57240	G080	12HFA51A42H	AI-26A	CA
27T1Y/1A2	57240	G080	12HFA51A42H	AI-26A	CA
7X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
7XI/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
7Y2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLJ-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
0-51/D2-1	9405	G080	12IAC51B17A	A1-25	CA
50-51/D2-2	9405	G080	12IAC51B17A	A1-25	CA
i0-51/D2-3	9405	G080	12IAC51B17A	AI-25	CA
0-51/T1A-1-1	9407	G080	12IAC53B50A	A1-23	CA
60-51/T1A-1-2	9407	G080	12IAC53B50A	A1-23	CA
60-51/T1A-1-3	9407	G080	12IAC53B50A	AI-23	CA
60-51/T1A-2-1	9407	G080	12IAC53B50A	AI-26	CA
60-51/T1A-2-2	9407	G080	12IAC53B50A	AI-26	CA
0-51/T1A-2-3	9407	G080	12IAC53E50A	AI-26	CA
0-51/T1A-4-1	9407	G080	12IAC53B2A	AI-25	CA
0-51/T1A-4-2	9407	G080	12IAC53B2A	AI-25	CA
0-51/T1A-4-3	9407	G080	12IAC53B2A	AI-25	CA
1/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
1/1A13-2	9401	G080	12IAC53A10IA	A1-24	SCS
1/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A22-1	9402	G080	12IAC53A101A	A1-26	CA
51/1A22-2	9402	G080	12IAC53A101A	AJ-26	CA
1/1A22-3	9402	G080	12IAC53A10IA	AI-26	CA
51/1A24-1	9403	G080	121AC53A101A	AI-25	SCS

51/1A24-2	9403	G080	12IAC53A101A	AJ-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A42-1	9402	G080	12IAC53A101A	AI-26	CA
51/1A42-2	9402	G080	12IAC53A101A	AI-26	CA
51/1A42-3	9402	G080	12IAC53A101A	AI-26	CA
51/1A44-1	9403	G080	12IAC53A101A	A1-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	A1-25	SCS
52/TC/1A4-1	9980	G080	AM-4.16-250-8H (52/TC)	1A4	SWGR
52X/1A4-1	9980	G080	AM-4.16-250-8H (52X)	1A4	SWGR
52XX-2/4	9406	G080	12HFA54E187H	52XX-2/4	CA
52XX-2/5	9406	G080	12HFA54E187H	52XX-2/5	CA
52Y/1A4-1	9980	G080	AM-4.16-250-8H (52Y)	1A4	SWGR
63FP/T1A-4	9407	G080	TYPEJ	TIA-4	CA
63FPX-1/T1A-4	9407	G080	12HMA11B6	AI-25	CA
63FPX/T1A-4	9407	G080	CR2970E100	T1A-4	CA
67/D2	9405	G080	12GGP53B1A	AI-25	CA
86-1/T1A-4	9407	G080	12HEA61C239X2	AI-25	CA
86-2/SVG1	9406	G080	12HEA61C239 or X2	AI-22	CA
86-2/T1A-4	9407	G080	12HEA61C239 or X2	AI-25	CA
86-2/T1A-4	9407	G080	12HEA61C239 or X2	AI-25	CA
86-3/G!	9407	G080	12HEA61C239 or X2	AI-21	CA
86-3/JT1	9407	G080	12HEA61C239 or X2	AI-21	CA
86/1A13	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A22	9402	G080	12HEA61C238 or X2	AI-26	CA
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A3-TFB	9406	G080	12HEA61C239 or X2	AI-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A42	9402	G080	12HEA61C238 or X2	AI-26	CA
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/D1	9405	G080	12HEA61C239 or X2	AI-24	SCS
86/D2	9405	G080	12HEA61C239 or X2	AI-25	SCS
86A-OR/1AD2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/D2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-39A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B-OR/1AD2	9818	G080	12HEA61C238 or X2	A1-30B(D2)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/D2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	A1-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
87/1 A D2-1	9405	G080	12CFD12B1A	AI-25	OUT
87/1AD2-2	9405	G080	12CFD12B1A	AI-25	OUT
87/1AD2-3	9405	G080	12CFD12B1A	AI-25	OUT
87/GT1-1	9407	G080	12BDD16B11A	AI-21	CA
87/GT1-2	9407	G080	12BDD16B11A	AI-21	CA
87/GT1-3	9407	G080	12BDD16B11A	AI-21	CA
87/T1A-1-1	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-1-2	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-1-3	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-2-1	9407	G080	12BDD15B11A	AI-26	CA
87/T1A-2-2	9407	G080	12BDD15B11A	AI-26	CA
87/T1A-2-3	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-4-1	9407	G080	12BDD15B11A	AI-25	CA
	1	- January -			

87/T1A-4-2	9407	G080	12BDD15B11A	AI-25	CA
87/T1A-4-3	9407	G080	12BDD15B11A	AI-25	CA
89XX-3/DST1	9406	G080	12HFA54E187H	89XX-3/DST1	CA
A/PC-742-1	9841	5382	12N6BB4NXCIAJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
AC-A/1AD2	9818	G080	12HFA51A42F	AI-30B(D2)	SWGR
AC-AX/1AD2	9818	A109	2452PB	A1-30B(D2)	SWGR
AC-B/1AD2	9818	G080	12HFA51A42F	AI-30B(D2)	SWGR
AC-BX/1AD2	9818	A109	2452PB	AI-30B(D2)	SWGR
AI-3-M3	1587	A160	702-DAD94	A1-3	CA
AI-3-M4	1587	A160	702-DAD94	AI-3	CA SCS
AI-31A-AW7-K(AB)3	1587	C490	6924-34460	AI-31A	
AI-31A-AW7-K(AB)4	1587	C490	6924-34460	AI-31A	SCS SCS
AI-31B-BW6-K(BC)3	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW6-K(BC)4	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW7-K(BD)3	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW7-K(BD)4	1587	C490	6924-34460	AI-31B AI-31C	SCS
AI-31C-CW19-K12	1587	C346	HG3A-1008	AI-31C	SCS
AI-31C-CW19-K14	1587 1587	C346 S345	HG3A-1008 8501-GD0-26	AI-31C	CA
AI-31C-CW19-K2 AI-31C-CW19-KTD2	1587	A160	700-NT200-A1	AI-31C	SCS
AI-31C-CW20-K4	1587	S345	8501-GD0-26	AI-31C	CA
AI-31C-CW6-K(AC)3	1587	C490	6924-34460	AI-31C	SCS
Al-31C-CW6-K(AC)4	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW7-K(CD)3	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW7-K(CD)4	1587	C490	6924-34460	AI-31C	SCS
AI-31C-IR-3	1587	A109	EGPI	AI-31C	SCS
AI-31C-IR-4	1587	A109	EGPI	AI-31C	SCS
AI-31D-DW6-K(AD)3	1587	C490	6924-34460	AI-31D	SCS
AI-31D-DW6-K(AD)4	1587	C490	6924-34460	AI-31D	SCS
B/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/P14-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
.7PIA '(2Y-I	9829	G080	12HFA151A9H	AC-DC-1	SCS
L/PIA-I\ YY-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D2-112	17397	G080	VB152	D2	OUT
D2-21-104E1	17396	P297	KRP14DG	D2	SCS
D2-21-104E2	17396	P297	KRP14DG	D2	SCS
D2-21-104N	17397	P297	KRP14DG	D2	SCS
D2-21-105	17397	P297	KRP14DG	D2	SCS
D2-21-105X	17397	P297	KRP14DG	D2	SCS
D2-21-112X1	17397	P297	KRP14DG	D2	SCS
D2-21-127E2	17398	P297	KRP14DG	D2	SCS
D2-21-PS7X2	17397	P297	KRP14DG	D2	SCS
D2-21-PS9X	17397	P297	KRP14DG	D2	SCS
D2-21-TDSTX	17397	P297	KRP14DG	D2	SCS
D2-46-TDL	17397	A109	2412PD	A1-133B	SCS

D2-52-TDSR	17397	A109	2412PC	AI-133B	SCS
PC-6126	17396	S382	6N-AA2-SPP	DG-2	CA
PCA-3350	17397	E147	8362040	DG-2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
PS-6020-1	17397	S382	6N-AA2-SPP	DG-2	CA
RS1/D2	17396	P297	KRP14DG	AI-133B	SCS
RS2/D2	17396	P297	KRP14DG	AI-133B	SCS
TCA-3346	17397	F081	22800-0	DG-2	CA
YT-6148	17398	\$519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in all modes in direct path of lockout relay. Corrective action is necessary;

Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control
path of lock-out relays;

3) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box".

4) Functionally screened relays are from DG Anticipatory Start Circuitry;

5) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

6) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

7) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

8) D/G Breaker protection is overridden in an emergency start and breaker close. Engine shutdown by the "86" Lockout relay is also overridden by the engine emergency start.

9) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened						
REASON:	Equipment Affected by outlier relays (see OSVS).						
PREPARED BY:	J.K. Mathew Old	DATE:	9/8/95				
VERIFIED BY:	R.F. Mehaffey 8770	DATE:	9/8/95				

EQUIPMENT ID: 1A4-10

SYSTEM: EE-4A

DESCRIPTION:

4.16KV FEEDER BREAKER TO XFMR T1B-4A

CLASS: 3

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1A4

P and ID:

12234

POWER: 1A4

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X4	43388	G080	12HFA151A2H	Al-109B	SWGR
50-51/T1B-4A-1	9996	G080	12IAC66N16A	1A4	SWGR
50-51/T1B-4A-2	9996	G080	12IAC66B16A	1A4	SWGR
50-51/T1B-4A-3	9996	G080	121AC66B16A	1A4	SWGR
51/1A24-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AJ-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G380	12IAC53A101A	AI-25	SCS
52/TC/1A4-10	9996	G080	AM-4.16-250-8H (52/TC)	1A4	SWGR
52X/1A4-10	9996	G080	AM-4.16-250-8H (52X)	1A4	SWGR
52Y/1A4-10	9996	G080	AM-4.16-250-8H (52Y)	1A4	SWGR
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A4-TFB	9406	G080	12HEA61C239 or X2	A1-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Okro	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: 1A4-11 SYSTEM: AC-RW

DESCRIPTION: 4.16KV FEEDER BREAKER TO AC-10B

CLASS: 3 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1A4

P and ID: 12234 POWER: 1A4

CONTACT PAIR	DRWG.	MFG.	MODEL	вох	STATUS
27-1/1A4	9398	G080	12IAV53L1A	1A4	CA
27-1/\$2-1	9814	G080	12HFA51A42F	AI-30B(\$2-1)	SWGR
27-1/\$2-2	9815	G080	12HFA51A42F	A1-30B(S2-2)	SWGR
27-2/1A4	9398	G080	121AV53L1A	1.54	CA
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-TI/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A4	9398	E982	7012PBX	AI-25A	SWGR
27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWOR
27T1S1/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T2/1A4	9398	A109	2452PB	AI-26A	SWGR
27T2S/1A4	9398	G080	12HFA151A2H	AI-26A	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
49-50-83/AC-10B-1	9986	G080	12IAC66K8A	1A4	SWGR
49-50-83/AC-10B-2	9986	G080	12IAC66K8A	1A4	SWGR
49-50-83/AC-10B-3	9986	G080	12IAC66K8A	1A4	SWGR
51/1A24-1	9403	G080	121AC53A101A	A1-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	A1-25	SCS
51/1A44-1	9403	G080	12IAC53A101A	A1-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	AI-25	SCS
52/TC/1A4-11	9986	G080	AM-4.16-250-8H (52/TC)	1A4	SWGR
52X/1A4-11	9986	G080	AM-4.16-250-8H (52X)	1A4	SWGR
52Y/AC-10B	9986	G080	AM-4.16-250-8H (52Y)	1A4	SWGR
62-1/AC-10B	9986	A109	2412PB	1A4	SWGR
62-2-1/AC-10B	9811	A109	2452PC	AI-30B(S2-1)	SWGR
62-2-1X/AC-10B	9811	G080	12HFA151A2F	1A4	SWGR
62-2-2/AC-10B	9811	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	SWGR
62-2-2X/AC-10B	9811	G080	12HFA151A9F	1A4	SWGR
86-1/\$2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
86-1/S2-2	9815	G080	12HEA61C241 or X2	AI-30B(S2-2)	SCS
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS

86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	Al-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXCI ITTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unkn - 1 Capacity

SWGR - Contact Pair initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Office	DATE: _	9/8/95	15.23
VERIFIED BY:	R.F. Mehaffey RF211	DATE:	9/8/95	

EQUIPMENT ID: 1A4-12 SYSTEM: AC-RW

DESCRIPTION: 4.16KV FEEDER BREAKER TO AC-10D

CLASS: 3 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1A4

P and ID: 12234 POWER: 1A4

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A4	9398	G080	12IAV53L1A	1A4	CA
27-1/\$2-1	9814	G080	12HFA51A42F	AI-30B(S2-1) *	SWGR
27-1/\$2-2	9815	G080	12HFA51A42F	AI-30B(S2-2)	SWGR
27-2/1A4	9398	G080	12JAV53L1A	1A4	CA
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A4	9398	E982	7012PBX	AI-25A	SWGR
27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T1S1/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T2/1A4	9398	A109	2452PB	AI-26A	SWGR
27T2S/1A4	9398	G080	12HFA151A2H	AI-26A	SWGR
27XI/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
49-50-83/AC-10D-1	9988	G080	12IAC66K8A	1A4	SWGR
49-50-83/AC-10D-2	9988	G080	12IAC66K8A	1A4	SWGR
49-50-83/AC-10D-3	9988	G080	12IAC66K8A	1A4	SWGR
51/1A24-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-1	9403	G080	121AC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	AI-25	SCS
52/TC/1A4-12	9988	G080	AM-4.16-250-8H (52/TC)	1A4	SWGR
52X/1A4-12	9988	G080	AM-4.16-250-8H (52X)	1A4	SWGR
52Y/1A4-12	9988	G080	AM-4.16-250-8H (52Y)	1A4	SWGR
62-1/AC-10D	9988	A109	2412PB	1A4	SWGR
62-2-1/AC-10D	9811	A109	2452PD	AI-30B(S2-1)	SWGR
52-2-1X/AC-10D	9811	G080	12HFA151A2F	1A4	SWGR
62-2-2/AC-10D	9811	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	SWGR
52-2-2X/AC-10D	9811	G080	12HFA151A9F	1A4	SWGR
86-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
86-1/S2-2	9815	G080	12HEA61C241 or X2	AI-30B(S2-2)	SCS
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS

86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30F(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Com	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: 1 -8

SYSTEM: EE-4A

DESCRIPTION: 4.16KV FEEDER BREAKER TO XFMR T1B-4C

CLASS: 3

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1A4

P and ID:

12234

POWER: 1A4

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X6	43388	G080	12HFA151A2H	AI-109B	SWGR
50-51/T1B-4C-1	9994	G080	121AC66B16A	1A4	SWGR
50-51/T1B-4C-2	9994	G080	12IAC66B16A	1A4	SWGR
50-51/T1B-4C-3	9994	G080	12IAC66B16A	1A4	SWGR
51/1A24-1	9403	G080	12IAC53A10IA	A1-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	A1-25	SCS
51/1A44-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	A1-25	SCS
52/TC/1A4-8	9994	G080	AM-4.16-250-8H (52/TC)	1A4	SWGR
52X/1A4-8	9994	G080	AM-4.16-250-8H (52X)	1A4	SWGR
52Y/1A4-8	9994	G080	AM-4.16-250-8H (52Y)	1A4	SWGR
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A4-TFB	9406	G080	12HEA61C239 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	A1-25	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box" for the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Okto	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE: _	9/8/95	

EQUIPMENT ID: 1A4-9

SYSTEM: EE-4A

DESCRIPTION: 4.16KV FEEDER BREAKER TO XFMR T1B-4B

CLASS: 3

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1A4

P and ID:

12234

POWER: 1A4

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MOD'.L	BOX	STATUS
183X4	43388	G080	12HF 151A2H	AI-109B	SWGR
183X5	43388	G080	1257FA151A2H	Al-109B	SWGR
50-51/T1B-4B-1	9995	G080	1 /IAC66B16A	1A4	SWGR
50-51/T1B-4B-2	9995	G080	21AC66B16A	1A4	SWGR
50-51/T1B-4B-3	9995	G080	12IAC66N16A	1A4	SWGR
51/1A24-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-2	9403	G080	121AC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-1	9403	G080	12IAC53A10IA	AI-25	SCS
51/1A44-2	9403	G080	(2IAC53A101A	Ai-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	AI-25	SCS
52/TC/1A4-9	9995	G080	AM-4.16-250-8H (52/TC)	1A4	SWGR
52X/1A4-9	9995	G080	AM-4.16-250-8H (52X)	1A4	SWGR
52Y/1A4-9	9995	G080	AM-4.16-250-8H (52Y)	1A4	SWGR
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A4-TFB	9406	G080	12HEA61C239 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control
path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

you

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

674V

DATE:

9/8/95

EQUIPMENT ID: 1B3A-1B3A

SYSTEM: EE-4B

DESCRIPTION:

480V FEEDER BREAKER TO 480V BUS 1B3A

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B3A

P and ID:

12234

POWER: TIB-3A

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/TC/1B3A	57310	G080	AK-2A-50S-2 (52/TC)	1B3A	SWGR
52CC/1B3A	57310	G080	AK-2A-508-2 (52CC)	1B3.\	SWGR
52X/1B3A	57310	G080	AK-2A-50S-2 (52X)	1B3A	SWGR
52Y/1B3A	57310	G080	AK-2A-508-2 (52Y)	1B3A	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OCD	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: 1B3A-4 SYSTEM: CH

DESCRIPTION: 480V FEEDER BREAKER TO CH-1A

CLASS: 2 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1B3A

P and ID: 12234 POWER: 1B3A

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A3	9397	G080	12IAV53L1A	1A3	CA
27-1/1B3A	12254	G080	12IAV53LIA	1B3A	SWGR
27-1/\$1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1/S1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2/1B3A	12254	G080	12IAV53L1A	1B3A	SWGR
27-T1/1B3A	12254	A109	2412PC	1B3A	SWGR
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	IA4	SCS
27T1/1A3	9397	A109	2452PB	A1-24A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T1X/1B3A	12254	G080	12HFA151A2H	1B3A	SWGR
27XI/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A131A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	121AC53A-803A	A1-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1B3A-4	57294	G080	AK-2A-25-1 (52/TC)	1B3A	SWGR
52CC/1B3A-4	57294	G080	AK-2A-25-1 (52CC)	1B3A	SWGR
52X/1B3A-4	57294	G080	AK-2A-25-1 (52X)	1B3A	SWGR
52XX/1B3A	57310	G080	CR120A26241	1B3A	SWGR
52Y/1B3A-4	57294	G080	AK-2A-25-1 (52Y)	1B3A	SWGR
62-1-1/CH-1A	9802	A109	2452PD	AI-30A(S1-1)	SWGR
62-1-1X/CH-1A	9802	G080	12HFA151A2F	AI-108A	SWGR
62-1-2/CH-1A	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	SWGR
62-1-2X/CH-1A	9803	G080	12HFA151A9F	AI-108A	SWGR
62X/PCS-224	57294	A109	2412PE	AC-DC-2	SWGR
63X-2/LC-101	9513	G080	12HFA151A9H	AC-DC-2	SWGR
63X/LCA-101	9513	G080	12HFA151A9H	AC-DC-2	SWGR
63X/PCS-226	57294	G080	CR120A26241	AC-DC-2	SWGR
63XA/LC-101-1	9513	G080	12HFA151A9H	AC-DC-2	SWGR
63XA/LC-101-2	9513	G080	12HFA151A9H	AC-DC-2	SWGR
86-1/\$1-1	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	SCS
86-1/\$1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86-2/\$1-1	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	SCS

86-2/\$1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	A1-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	Al-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
LC-101-1	9513	R335	ET-222	AI-4B	SWGR
LC-101-2	9513	R335	ET-222	AI-4B	SWGR
LCA-101X	9513	F180	CUSTOM 63U	AI-4A	SWGR
LCA-I01Y	9513	F180	CUSTOM 63U	Al-4B	SWGR
PCS-224	57294	B074	E1H-H15	PCS-224	SWGR
PCS-226	57294	F180	43E	PCS-226	SWGR
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Quo	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: 1B3A-7 SYSTEM: VA-CON

DESCRIPTION: 480V FEEDER BREAKER TO VA-3A

CLASS: 2 FUNCT: A PATH: AUX/EE

ROOM: 56 ELEVATION: 1011 LOCATION: 1B3A

P and ID: 12234 POWER: 1B3A

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A3	9397	G080	121AV53L1A	1A3	CA
27-1/1B3A	12254	G080	12IAV53L1A	1B3A •	SWGR
27-1/\$1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1/\$1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2/1B3A	12254	G080	121AV53L1A	1B3A	SWGR
27-T1/1B3A	12254	A109	2412PC	1B3A	SWGR
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A3	9397	A109	2452PB	AI-24A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	A1-24A	SWGR
27T1X/1B3A	12254	G080	12HFA151A2H	1B3A	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
51/1A13-1	9401	G080	12IAC53A1U1A	AI-24	SCS
51/1A13-2	9401	G080	121AC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1B3A-7	12333	G080	AK-2A-25-1 (52/TC)	1B3A	SWGR
52CC/1B3A-7	12333	G080	AK-2A-25-1 (52CC)	1B3A	SWGR
52X/1B3A-7	12333	G080	AK-2A-25-1 (52X)	1B3A	SWGR
52XX/1B3A	57310	G080	CR120A26241	1B3A	SWGR
52XX/VA-3A	12333	G080	CR120AS5041	1B3A	SWGR
52Y/1B3A-7	12333	G080	AK-2A-25-1 (52Y)	1B3A	SWGR
62-1-1/VA-3A	9802	A109	2452PD	AI-30A(S1-1)	SWGR
62-1-1X/VA-3A	9802	G080	12HFA151A2F	AI-108A	SWGR
62-1-2/VA-3A	9803	A109	DPCXX012XDAAXAA	A1-30A(S1-2)	SWGR
52-1-2X/VA-3A	9803	G080	12HFA151A9F	AI-108A	SWGR
86-1/\$1-1	9804	G080	12HEA61C241 or X2	A1-30A(S1-1)	SCS
86-1/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS

86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-18/FD	9828	G080	CR120A26941	AI-54B	SWGR
94-18X/FD	39723	P297	KUP5D	AI-54B	SWGR
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	DrPC-742 2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
POX-1	39723	P435	XL-3	A1-56	SWGR
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT	DISPOSTION: Screened
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REASON:

PREPARED BY:

J.K. Mathew

die

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey 15-72

DATE:

9/8/95

EQUIPMENT ID: 1B3B-1B3B SYSTEM: EE-4B

DESCRIPTION: 480V FEEDER BREAKER TO 460V BUS 1B3B

CLASS: 2 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1B3B

Pand ID: 12234 POWER: T1B-3B

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/TC/1B3B	57311	G080	2A-50S-2 (52/TC)	1B3B	SWGR
52CC/1B3B	57311	G080	2A-50S-2 (52CC)	1B3B	SWGR
52X/1B3B	57311	G080	2A-50S-2 (52X)	1B3B	SWGR
52Y/1B3B	57311	G080	2A-50S-2 (52Y)	1B3B	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App. D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew (Ch)	DATE:	9/8/95	
VERIFIED RV.	D.E. Mahaffay	DATE	0/9/05	

EQUIPMENT ID: 1B3B-4

SYSTEM: AC-CCW

DESCRIPTION:

480V FEEDER BREAKER TO AC-3A

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B3B

P and ID:

12234 POWER: 1B3B

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A3	9397	G080	121AV53L1A	1A3	CA
27-1/1B3B	57305	G080	12IAV53L1A	1B3B	SWGR
27-1X/S1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1X/S1-2	9805	G080	12HFA51A42F	AI-30A(S1-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2/1B3B	57305	G080	121AV53L1A	1B3B	SWGR
27-T1/1B3B	57305	A109	2412PC	1B3B	SWGR
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A3	9397	A109	2452PB	AI-24A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T1X/1B3B	57305	G080	12HFA151A2H	1B3B	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	121AC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
52/TC/1B3B-4	12332	G080	AK-2A-25-1 (52/TC)	1B3B	SWGR
52CC/1B3B-4	12332	G080	AK-2A-25-1 (52CC)	1B3B	SWGR
52X/1B3B-4	12332	G080	AK-2A-25-1 (52X)	1B3B	SWGR
52XX/1B3B	57311	G080	CR120AS5041	1B3B	SWGR
52XX/AC-3B	57295	G080	CR12GAS5041	1B4A	SWGR
52XX/AC-3C	57296	G080	CR120AS5041	1B3C-4C	SWGR
52Y/1B3B-4	12332	G080	AK-2A-25-1 (52Y)	1B3B	SWGR
62-1-1/AC-3A	9802	A109	2452PC	AI-30A(S1-1)	SWGR
62-1-1X/AC-3A	9802	G080	12HFA151A2F	AI-108A	SWGR
62-1-2/AC-3A	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	SWGR
62-1-2X/AC-3A	9803	G080	12HFA151A9F	AI-108A	SWGR
62-1/AC-3A	12332	A109	2412PA	1838	SWGR
86-1/31-1	9804	G080	12HEA61C241 or X2	AI-30A(\$1-1)	SCS
86-1/\$1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS

86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT	DISPOSITION:	Screened

REASON:

PREPARED BY:

VERIFIED BY:

J.K. Mathew

w Ola

DATE:

9/8/95

R.F. Mehaffey (377)

_ DATE:

9/8/95

EQUIPMENT ID: 1B3B-4R-5 SYSTEM: CH

DESCRIPTION: 480V FEEDER BREAKER TO CH-1C

CLASS: 2 FUNCT: A PATH: AUX/EE

ROOM: 56 ELEVATION: 1011 LOCATION: 1B3B-4B

P and ID: 12234 POWER: 1B3B-4B

CONTACT PAIR	DRWG.	MFG.	MODEL	вох	STATUS
27-1/1A2	9397	G080	12IAV53L1A	1A3	CA
27-1/1A4	9398	G080	12IAV53L1A	1A4	CA
27-1/1B3B-4B	57305	G080	12IAV53L1A	1B3B	SWGR
27-1X/S1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1X/S1-2	9805	G080	12HFA51A42F	A1-30A(S1-2)	SWGR
27-1X/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	SWGR
27-1X/\$2-2	9815	G080	12HFA51A42F	AI-30B(S2-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2/1A4	9398	G080	12IAV53L1A	1A4	CA
27-2/1B3B-4B	57303	G080	12IAV53L1A	1B3B	SWGR
27-T1/1B3B-4B	57305	A109	2412PC	1B3B-4B	SWGR
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A3	9397	A109	2452PB	AI-24A	SWGR
27T1/1A4	9398	E982	7012PBX	AI-25A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T1X/1B3B-4B	57305	G080	12HFA151A2H	1B4B	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
51/1A13-1	9401	G080	12IAC53A101A	A1-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A24-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	121AC53A101A	AI-25	SCS
51/1A33-1	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-2	9401	G080	121AC53A-803A	AI-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A44-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	AI-25	SCS
52/TC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52/TC)	1B3B-4B	SWGR
52CC/1B3B-4B-5	57297	G080	AK-2A-25-1 (52CC)	1B3B-4B	SWGR
52X/1B3B-4B-5	57297	G080	AK-2A-25-1 (52X)	1B3B-4B	SWGR
52XX/1B3B	57311	G080	CR120AS5041	1B3B	SWGR
52XX/1B4B	57314	G080	CR120AS5041	1848	SWGR
52XX/BT-1B3B	57306	G080	CR120AS5041	1B3B	SWGR

52XX/BT-1B4B	57307	G080	CR120AS5041	1848	SWGR
52Y/1B3B-4B-5	57297	G080	AK-2A-25-1 (52Y)	1B3B-4B	SWGR
62-1-1/CH-1C	9802	A109	2452PD	AI-30A(S1-I)	SWGR
62-1-1%/CH-1C	9802	G080	12HFA151A2F	AI-108A	SWGR
62-1-2/CH-1C	9803	A109	DPCXX012XDAAXAA	AI-30A(S1-2)	SWGR
62-1-2X/CH-1C	9803	G080	12HFA151A9F	AI-108A	SWGR
62-2-1/CH-1C	9812	A109	2452PD	AI-30B(S2-1)	SWGR
62-2-1X/CH-1C	9812	G080	12HFA151A2F	AI-108B	SWGR
62-2-2/C)1-1C	9813	A109	DPCXX012XDAAXAA	A1-30B(S2-2)	SWGR
62-2-2X/CH-1C	9813	G080	12HFA151A9F	AI-108B	SWGR
62X/PCS-230	57297	A109	2412PE	AC-DC-2	SWGR
63X-2/LC-101	9513	7080	12HFA151A9H	AC-DC-2	SWGR
63X/LCA-101	9513	080	12HFA151A9H	AC-DC-2	SWGR
63X/PCS-232	57297	G080	CR120A26241	AC-DC-2	SWGR
63XA/LC-101-1	9513	G080	12HFA151A9H	AC-DC-2	SWGR
63XA/LC-101-2	9513	G080	12HFA151A9H	AC-DC-2	SWGR
86-1/\$1-1	9804	G080	12HEA61C241 or X2	A1-30A(S1-1)	SCS
86-1/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
86-1/S2-2	9815	G080	12HEA61C241 or X2	A1-30B(S2-2)	SCS
86-2/S1-1	9804	G080	12HEA61C241 or X2	AI-30A(S1-1)	SCS
86-2/S1-2	9805	G080	12HEA61C241 or X2	AI-30A(S1-2)	SCS
86-2/S2-1	9814	G080	12HEA61C241 or X2	A1-30B(S2-1)	SCS
86-2/S2-2	9815	G080	12HEA61C241 or X2	AI-30B(S2-2)	SCS
86/1A13	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A24	9403	G080	12HEA61C238 or X2	A1-25	SCS
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A44	9403	G680	12HEA61C238 or X2	AI-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SC3
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/FC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	C.\
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
LC-101-1	9513	R335	ET-222	AI-4B	SWGR
LC-101-2	9513	R335	ET-222	AI-4B	SWGR

LCA-101X	9513	F180	CUSTOM 63U	AI-4A	SWGR
LCA-101Y	9513	F180	CUSTOM 63U	AI-4B	SWGR
PCS-230	57297	B074	E1H-H15	PCS-230	SWGR
PCS-232	57297	F180	43E	PCS-232	SWGR
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

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- 4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
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EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Oto	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

SYSTEM: EE-4B EQUIPMENT ID: 1B3C-1B3C DESCRIPTION: 480V FEEDER BREAKER TO 480V BUS 1B3C

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B3C

P and ID:

12234 POWER: T1B-3C

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/TC/1B3C	57312	G080	AK-2A-50S-2 (52/TC)	1B3C	SWGR
52CC/1B3C	57312	G080	AK-2A-50S-2 (52CC)	1B3C -	SWGR
52X/1B3C	57312	G080	AK-2A-50S-2 (52X)	1B3C	SWGR
52Y/1B3C	57312	G080	AK-2A-50S-2 (52Y)	1B3C	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

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Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew 000	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

SYSTEM: AC-CCW EQUIPMENT ID: 1B3C-4C-4

480V FEEDER BREAKER TO AC-3C

CLASS: 2

DESCRIPTION:

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B3C-4C

P and ID:

12234

POWER: 1B3C-4C

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A3	9397	G080	12IAV53L1A	1A3	CA
27-1/1A4	9398	G080	12IAV53L1A	1A4	CA
27-1/1B3C-4C	57308	G080	12IAV53L1A	1B3C-4C	SWGR
27-1X/S1-1	9804	G080	12HFA51A42F	AI-30A(S1-1)	SWGR
27-1X/S1-2	9805	G080	12HFA51A42F	A1-30A(S1-2)	SWGR
27-1X/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	SWGR
27-1X/S2-2	9815	G080	12HFA51A42F	A1-30B(S2-2)	SWGR
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2/1A4	9398	G080	121AV53L1A	1A4	CA
27-2/1B3C-4C	57308	G080	12IAV53L1A	1B3C-4C	SWGR
27-T1/1B3C-4C	57308	A109	2412PC	1B3C-4C	SWGR
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A3	9397	A109	2452PB	AI-24A	SWGR
27T1/1A4	9398	E982	7012PBX	AI-25A	SWGR
27T1S/1A3	9397	G080	12HFA151A2H	AI-24A	SWGR
27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T1X/1B3C-4C	57308	G080	12HFA51A42H	IB3C-4C	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A10IA	AI-24	SCS
51/1A24-1	9403	G080	12IAC53A10IA	AI-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	A1-25	SCS
51/1A24-3	9403	G080	12IAC53A10IA	AI-25	SCS
51/1A33-1	9401	G080	12IAC53A-803A	A1-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A44-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	A1-25	SCS
51/1A44-3	9403	G080	12IAC53A101A	AI-25	SCS
52/TC/1B3C-4C-4	57296	G080	AK-2A-25-1 (52/TC)	1B3C-4C	SWGR
52CC/1B3C-4C-4	31296	G080	AK-2A-25-1 (52CC)	1B3C-4C	SWGR
52X/1BC3-4C-4	57296	G080	AK-2A-25-1 (52X)	1B3C-4C	SWGR
52XX/1B3C	57312	G080	CR120AS5041	1B3C	SWGR
52XX/1B4C	57315	G080	CR120AS5041	1B4C	SWGR
52XX/AC-3A	12332	G080	CR120AS5041	1B3B	SWGR

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CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: 1B4A-1 SYSTEM: AC-CCW

DESCRIPTION: 480V FEEDER BREAKER TO AC-3B

CLASS: 2 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1B4A

P and ID: 12234 POWER: 1B4A

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A4	9398	G080	12IAV53LIA	1A4	CA
27-1/1B4A	12254	G080	12IAV53L1A	1B4A	SWGR
27-1/\$2-1	9814	G080	12HFA51A42F	A1-30B(S2-1)	SWGR
27-1/52-2	9815	G080	12HFA51A42F	AI-30B(S2-2)	SWGR
27-2/1A4	9398	G080	12IAV53L1A	1A4	CA
27-2/184A	12254	G080	12IAV53L1A	184A	SWGR
27-T1/1B4A	12254	A109	2412PC	1B4A	SWGR
7-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
7-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
7-TI/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
7-TI/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
7T1/1A4	9398	E982	7012PBX	AI-25A	SWGR
7T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
7T1X/1B4A	12254	G080	12HFA151A2H	1B4A	SWGR
7X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
7X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
1/1A24-1	9403	G080	12IAC53A101A	AI-25	SCS
I/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
1/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
I/IA44-I	9403	G080	12IAC53A101A	AI-25	SCS
1/1A44-2	9403	G080	121AC53A101A	AI-25	SCS
I/1A44-3	9403	G080	12IAC53A101A	AI-25	SCS
2/TC/1B4A-1	57295	G080	AK-2A-25-1 (52/TC)	IB4A	SWGR
2CC/1B4A-1	57295	G080	AK-2A-25-1 (52CC)	IB4A	SWGR
2X/1B4A-1	57295	G080	AK-2A-25-1 (52X)	1B4A	SWGR
2XX/1B4A	57313	G080	CR120AS5041	1B4A	SWGR
2XX/AC-3A	12332	G080	CR120AS5041	1B3B	SWGR
2XX/AC-3C	57296	G080	CR120AS5041	1B3C-4C	SWGR
2Y/1B4A-i	57295	G080	AK-2A-25-1 (52Y)	1B4A	SWGR
2-1/AC-3B	57295	A109	2412PA	1B4A	SWGR
2-2-1/AC-3B	9812	A109	2452PC	AI-30B(\$2-1)	SWGR
2-2-1X/AC-3B	9812	G080	12HFA151A2F	A1-108B	SWGR
2-2-2/AC-3B	9813	A109	DPCXX012XDAAXAA	A1-30B(S2-2)	SWGR
2-2-2X/AC-3B	9813	G080	12HFA151A9F	AI-108B	SWGR
6-1/\$2-1	9814	(3080	12HEA61C241 or X2	A1-30B(S2-1)	SCS
6-1/\$2-2	9815	G080	12HEA61C241 or X2	AI-30B(\$2-2)	SCS
6/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
6/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
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86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/P1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/F1A-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Cnatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occurs to could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Or	DATE:	9/8/95	
VERIFIED RV.	P.F. Mehaffey	DATE	0/8/05	

EQUIPMENT ID: 1B4A-1B4A SYSTEM: EE-4B DESCRIPTION: 480V FEEDER BREAKER TO 480V BUS 1B4A

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B4A

P and ID:

12234

POWER: TIB-4A

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X7	43388	G080	12HFA151A2H	AI-109B	SWGR
52/TC/1B4A	57313	G080	A.K-2A-50S-2 (52/TC)	1B4A	SWGR
52CC/1B4A	57313	G080	AK-2A-50S-2 (52CC)	1B4A	SWGR
52X/1B4A	57313	G080	AK-2A-50S-2 (52X)	IB4A	SWGR
52Y/1B4A	57313	G080	AK-2A-50S-2 (52Y)	IB4A	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Ollo	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey Rital	DATE:	9/8/95	

EQUIPMENT ID: 1B4B-1B4B SYSTEM: EE-4B

DESCRIPTION: 480V FEEDER BREAKER TO 480V BUS 1B4B

CLASS: 2 FUNCT: A PATH: AUX/EE ROOM: 56 ELEVATION: 1011 LOCATION: 1B4B

P and ID: 12234 POWER: T1B-4B

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X8	43388	G080	12HFA151A2H	AI-109B	SWGR
52/TC/1B4B	57314	G080	AK-2A-50S-2 (52/TC)	1B4B	SWGR
52CC/1B4B	57314	G080	AK-2A-50S-2 (52CC)	184B	SWGR
52X/1B4B	57314	G080	AK-2A-50S-2 (52X)	1B4B	SWGR
52Y/1B4B	57314	G080	AK-2A-50S-2 (52Y)	1848	SWGR

CA - Chatter Acceptable- Relay Non-

SCS- Seismically Screened (See App.

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OK	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: 1B4C-1B4C SYSTEM: EE-4B DESCRIPTION: 480V FEEDER BREAKER TO 480V BUS 1B4C

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B4C

P and ID:

12234

POWER: TIB-4C

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X9	43388	G080	12HFA151A2H	A1-109B	SWGR
52/TC/1B4C	57315	G080	AK-2A-50S-2 (52/TC)	1B4C ·	SWGR
52CC/1B4C	57315	G080	AK-2A-50S-2 (52CC)	1B4C	SWGR
52X/1B4C	57315	G080	AK-2A-50S-2 (52X)	1B4C	SWGR
52Y/1B4C	57315	G080	AK-2A-50S-2 (52Y)	1B4C	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew CKD	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: 1B4C-6 SYSTEM: CH

DESCRIPTION: 480V FEEDER BREAKER TO CH-1B

CLASS: 2 FUNCT: A PATH: AUX/EE

ROOM: 56 ELEVATION: 1011 LOCATION: 1B4C

P and ID: 12234 POWER: 1B4C

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A4	9398	G080	121AV53L1A	1A4	CA
27-1/1B4C	57308	G080	12IAV53L1A	IB4C	SWGR
27-1X/\$2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	SWGR
27-1X/S2-2	9815	G080	12HFA51A42F	AI-30B(S2-2)	SWGR
27-2/1A4	9398	G080	12IAV53L1A	1A4	CA
27-2/1B4C	57308	G080	12IAV53L1A	1B4C	SWGR
27-T1/1B4C	57308	A109	2412PC	1B4C	SWGR
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A4	9398	E982	7012PBX	AI-25A	SWGR
27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T1X/1B4C	57308	G080	12HFA151A2H	1B4C	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
43D/AI-185	12517	E155	LOR	AI-185	SCS
51/1A24-1	9403	G080	12IAC53A10IA	A1-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/LA44-1	9403	G080	12IAC53A101A	A1-25	SCS
S1/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A10IA	AI-25	SCS
52/TC/1B4C-6	57291	G080	AK-2A-25-1 (52/TC)	1B4C	SWGR
52CC/1B4C-6	57291	G080	AK-2A-25-1 (52CC)	1B4C	SWGR
52X/1B4C-6	57291	G080	AK-2A-25-1 (52X)	1B4C	SWGR
52Y/1B4C-6	57291	G080	AK-2A-25-1 (52Y)	1B4C	SWGR
52-2-1/CH-1B	9812	A109	2452PD	AI-30B(S2-1)	SWGR
62-2-1X/CH-1B	9812	G080	12HFA151A2F	AI-108B	SWGR
52-2-2/CH-1B	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	SWGR
52-2-2X/CH-1B	9813	G080	12HFA151A9F	AI-108B	SWGR
52X/PCS-227	57291	A109	2412PE	AC-DC-2	SWGR
53X-2/LC-101	9513	G080	12HFA151A9H	AC-DC-2	SWGR
33X/LCA-101	9513	G080	12HFA151A9H	AC-DC-2	SWGR
53X/PCS-229	57291	G080	CR120A26241	AC-DC-2	SWGR
53XA/LC-101-1	9513	G080	12HFA151A9H	AC-DC-2	SWGR
53XA/LC-101-2	9513	G080	12HFA151A9H	AC-DC-2	SWGR
36-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
			12HEA61C241 or X2		SCS
36-1/\$2-2	9815	G080	LENEAUTCE OF AZ	A1-30B(S2-2)	SCS

86-2/\$2-2	9815	G080	12HEA61C241 or X2	AI-30B(\$2-2)	SCS
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-LC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	3382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S195	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G083	12HFA151A9H	AC-DC-1	SCS
LC-101-1	9513	R335	ET-222	AI-4B	SWGR
LC-101-2	9513	R335	ET-222	AI-4B	SWGR
LCA-101X	9513	F180	CUSTOM 63U	AI-4A	SWGR
LCA-101Y	9513	F180	CUSTOM 63U	A1-4B	SWGR
PCS-227	57291	B074	E1H-H15	PCS-227	SWGR
PCS-229	57291	F180	43E	PCS-229	SWGR
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew O	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: 1B4C-8 SYSTEM: VA-CON

DESCRIPTION: 480V FEEDER BREAKER TO VA-3B

CLASS: 2 FUNCT: A PATH: AUX/EE

ROOM: 56 ELEVATION: 1011 LOCATION: 1B4C Pand ID: 12234 POWER: 1B4C

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
27-1/1A4	9398	G080	12IAV53L1A	1A4	CA
27-1X/S2-1	9814	G080	12HFA51A42F	AI-30B(S2-1)	SWGR
27-1X/S2-2	9815	G080	12HFA51A42F	A1-30B(S2-2)	SWGR
27-2/1A4	9398	G030	12IAV53L1A	1A4	CA
27-T1/1B4C	57308	A109	2412PC	1B4C	SWGR
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-TI/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A4	9398	E982	7012PBX	A1-25A	SWGR
27T1S/1A4	9398	G080	12HFA151A2H	AI-25A	SWGR
27T1X/1B4C	57308	G080	12HFA151A2H	1B4C	SWGR
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
51/1A24-1	9403	G080	12IAC53A101A	A1-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-1	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A44-3	9403	G080	121AC53A101A	AI-25	SCS
52/TC/1B4C-8	57300	G080	AK-2A-25-1 (52/TC)	1B4C	SWGR
52CC/1B4C-8	57300	G080	AK-2A-25-1 (52CC)	1B4C	SWGR
52X/1B4C-8	57300	G080	AK-2A-25-1 (52X)	1B4C	SWGR
52Y/1B4C-8	57300	G080	AK-2A-25-1 (52Y)	1B4C	SWGR
52-2-1/VA-3B	9812	A109	2452PD	AI-30B(S2-1)	SWGR
52-2-1X/VA-3B	9812	G080	12HFA151A2F	AI-108B	SWGR
52-2-2/VA-3B	9813	A109	DPCXX012XDAAXAA	AI-30B(S2-2)	SWGR
52-2-2X/VA-3B	9813	G080	12HFA151A9F	AI-108B	SWGR
86-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
86-1/S2-2	9815	G080	12HEA61C241 or X2	A1-30B(S2-2)	SCS
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	A1-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
66A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
B6A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
36B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS

94-17/FD	9828	G080	CR120A26941	AI-54B	SWGR
94-17X/FD	39723	P297	KUP5D15	AI-54 s	SWGR
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/P741	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A.T742-2	SCS
A/PIA-102Y	9829	S185	9223-30-L	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	B/PC-742-2	SCS
B/PiA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	5382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
POX-1	39723	P435	XL-3	AI-56	SWGR
PPLS/BLOCK-A	9831	G080	12HFA 151A9H	AC-DC-1	CA

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey (2) 2: 799	DATE:	9/8/95	

EQUIPMENT ID: AC-12A-M

SYSTEM: AC-RW

DESCRIPTION: RAW WATER STRAINER MOTOR

CLASS: 0

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1001

LOCATION: 3W'BB-3N'102

P and ID:

43125 POWER: MCC-3B3-A04

NORMAL STATE: NA

DESIRED STATE: NA

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
m/AC-12A	43125	G080	CR106	AC-12A CTRL PANEL	CA
m/AC-12A	43125	E020	CYCLE FLEX	AC-12A CTRL PANEL	CA
m/AC-12A	43125	G080	CR106	AC-12A CTRL PANEL	CA
M/AC-12A	43125	E020	CYCLE FLEX	MCC-3B3	CA
M/AC-12A	43125	G080	CR106	MCC-3B3	CA
M/AC-12A	43125	G080	CR106	MCC-3B3	CA
M/AC-12A	43125	E020	CYCLE FLEX	MCC-3B3	CA
m/AC-12A	43125	E020	CYCLE FLEX	AC-12A CTRL PANEL	CA
TR/AC-12A	43125	C360	PMT	AC-12A CTRL PANEL	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Intermittent operation of the strainer motor during the earthquake would not have any affect on the plant's safe shutdown capability.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OKO	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE: _	9/8/95	

EQUIPMENT ID: AC-12B-M SYSTEM: AC-RW

DESCRIPTION: RAW WATER STRAINER MOTOR

CLASS: 0 FUNCT: A PATH: AUX/RW

ROOM: INTK ELEVATION: 999 LOCATION: 13W'BB-16N'10

P and ID: 43125 POWER: MCC-4C4-D07

NORMAL STATE: NA DESIRED STATE: NA

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
M/AC-12B	43125	G080	CR106	MCC-4C4	CA
m/AC-12B	43125	G080	CR106	AC-12B CTRL PANEL	CA
m/AC-12B	43125	G080	CR106	AC-12B CTRL PANEL	CA
m/AC-12B	43125	E020	CYCLE FLEX	AC-12B CTRL PANEL	CA
M/AC-12B	43125	G080	CR106	MCC-4C4	CA
M/AC-12B	43125	E020	CYCLE FLEX	MCC-4C4	CA
M/AC-12B	43125	E020	CYCLE FLEX	MCC-4C4	CA
m/AC-12B	43125	E020	CYCLE FLEX	AC-12B CTRL PANEL	CA
TR/AC-12B	43125	C360	PMT	AC-12B CTRL PANEL	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

MARKS

1) here mittent operation of the strainer motor during the earthquake would not have any affect on the plant's safe shuto wn capability.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew CKD	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey 67-11	DATE:	9/8/95	

EQUIPMENT ID: ATA-DI SYSTEM: DG

DESCRIPTION: DG1 480V AUTO XFER SWITCH (EMER FEEDER)

CLASS: 20

FUNCT: A

PATH: AUX/EE

ROOM: 63

ELEVATION: 1013

LOCATION: 2WD0N1A

P and ID:

12243

POWER: MCC-4A1-A03

NORMAL STATE: *OFF*

DESIRED STATE: *OFF*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
IV/ATA-DI	41898	A610	906172C	ATA-DI	CA
2V/ATA-D1	41898	A610	906172C	ATA-DI ·	CA
V/ATA-DI	41898	A610	906172C	ATA-DI	CA
LOVATA-DI	41898	A610	906172C	ATA-D1	CA
SE/ATA-DI	41898	A610	906172C	ATA-DI	CA
TS/ATA-DI	41898	A610	906172C	ATA-DI	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

2) 480 V Power is not required to start or operate the D/G. The fuel oil transfer pumps are to be repowered from a small auxiliary transformer in each D/Gs control panel (Al-133). The 480V power is not required for the transfer pumps for several hours.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: ATA-D2

SYSTEM: DG

DESCRIPTION:

DG2 480V AUTO XFER SWITCH (EMER FEEDER)

CLASS: 20

FUNCT: A

PATH: AUX/EE

ROOM: 64

ELEVATION: 1013

LOCATION: 3WD0N2A

P and ID:

12243

POWER: MCC-3B1-G2R

NORMAL STATE: *OFF*

DESIRED STATE: *OFF*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
IV/ATA-D2	41898	A610	906172C	ATA-D2	CA
2V/ATA-D2	41898	A610	906172C	ATA-D2	CA
3V/ATA-D2	41898	A610	906172C	ATA-D2	CA
LO/ATA-D2	41898	A610	906172C	ATA-D2	CA
SF/ATA-D2	41398	A610	906172C	ATA-D2	CA
TS/ATA-D2	41898	A610	906172C	ATA-D2	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismicall. Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

2) 480 V Power is not required to start or operate the D/G. The fuel oil transfer pumps are to be repowered from a small auxiliary transformer in each D/Gs control panel (AI-133). The 480V power is not required for the transfer pumps for several hours.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew (100	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: ATD-D1

SYSTEM: DG

DESCRIPTION:

DG1 125VDC AUTO XFER SWITCH (NORM FEEDER)

CLASS: 20

FUNCT: A

PATH: AUX/EE

ROOM: 63

ELEVATION: 1013

LOCATION: 7WD12N1A

POWER: 1-BUS-1

P and ID:

12244

NORMAL STATE: *ON*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
LO/ATD-DI	22025	A610	906124C	ATD-DI	CA
SE/ATD-DI	22025	A610	906124C	ATD-DI	CA
TS/ATD-DI	22025	A610	906124C	ATD-DI	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Push-button operated equipment. Since normal, desired, and fail states are the same, it is functionally screened

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Ol	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: ATD-D2

SYSTEM: DG

DESCRIPTION: DG2 125VDC AUTO XFER SWITCH (NORM FEEDER)

CLASS: 20

FUNCT: A

PATH: AUX/EE

ROOM: 64

ELEVATION: 1013

LOCATION: 8WD0N2A

P and ID:

12244

POWER: 1-BUS-2

NORMAL STATE: *ON*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
LO/ATD-D2	22025	A610	906124C	ATD-D2	CA
SE/ATD-D2	22025	A610	906124C	ATD-D2 *	CA
TS/ATD-D2	22025	A610	906124C	ATD-D2	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Push-button operated equipment. Since normal, desired, and fail states are the same, it is functionally screened

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew QCD	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey at 777	DATE: _	9/8/95	

EQUIPMENT ID: BT-1B3A SYSTEM: EE-4B

DESCRIPTION: BUS TIE 480V BUS 1B3A & BUS 1B3A-4A

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

P and ID:

LOCATION: 1B3A

12234 POWER: 1B3A

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/TC/BT-1B3A	57303	G080	AK-2A-50S-2 (52/TC)	1B3A	SWGR
52CC/BT-1B3A	57303	G080	AK-2A-50S-2 (52CC)	1B3A	SWGR
52X/BT-1B3A	57303	G080	AK-2A-50S-2 (52X)	1B3A	SWGR
52XX/1B3A	57310	G080	CR120A26241	1B3A	SWGR
52Y/BT-1B3A	57303	G080	AK-2A-50S-2 (52Y)	1B3A	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Que	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: BT-1B3C SYSTEM: EE-4B

DESCRIPTION: BUS TIE 480V BUS 1B3C & BUS 1B3C-4C

CLASS: 2 FUNCT: A

PATH: AUX/EE LOCATION: 1B3C

ROOM: 56 ELEVATION: 1011
P and ID: 12234 POWER: 1B3C

NORMAL STATE: *C* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/TC/BT-1B3C	57309	G080	AK-2A-50S-2 (52/TC)	1B3C	SWGR
52CC/BT-1B3C	57309	G080	AK-2A-50S-2 (52CC)	1B3C	SWGR
52X/BT-1B3C	57309	G080	AK-2A-50S-2 (52X)	1B3C	SWGR
52XX/1B3C	57312	G080	CR120AS5041	1B3C	SWGR
52Y/BT-1B3C	57309	G080	AK-2A-50S-2 (52Y)	1B3C	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control
path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OK	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

SYSTEM: EE-4B EQUIPMENT ID: BT-1B4B

DESCRIPTION: BUS TIE 480V BUS 1B4B & BUS 1B3B-4B

CLASS: 2

FUNCT: A

PATH: AUX/EE

ROOM: 56

ELEVATION: 1011

LOCATION: 1B4B

P and ID:

POWER: 1B4B

12234 NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/TC/BT-1B4B	57307	G080	AK-2A-50S-2 (52/TC)	1B4B	SWGR
52CC/BT-1B4B	57307	G080	AK-2A-50S-2 (52CC)	1848	SWGR
52X/BT-1B4B	57307	G080	AK-2A-50\$-2 (52X)	1B4B	SWGR
52XX/1B4B	57314	G080	CR120AS5041	1848	SWGR
52Y/BT-1B4B	57307	G080	AK-2A-50S-2 (52Y)	1B4B	SWGR

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Exceptions to the SWGR "rule of the box" include "bad actor" and lock-out relays and relays in direct control path of lock-out relays;

2) "SWGR" does not necessarily indicate that the corresponding relay was included in the "rule of the box". For the relay to be so designated (see App. D), all contact pairs on the relay must be included under this rule.

Otherwise, the relay (if not a "bad actor") was evaluated using SCS (see text).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew ACE	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	0/9/05	

EQUIPMENT ID: DG-1

SYSTEM: DG

DESCRIPTION: EDG # 1 ENGINE (EE-1F)

CLASS: 17

FUNCT: A

PATH: AUX/EDG

ROOM: 63

ELEVATION: 1010

LOCATION: 03EF-08NIA

P and ID:

17388

POWER: NA

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
ICR/DI	6622	P297	CST-38-70010	AI-133A	SWGR
ICRX/DI	17397	P297	KRP14DG	DI	SWGR
27-1/1A3	9397	G080	12IAV53LIA	1A3	CA
27-1XA/D1	9808	G080	12HFA51A42F	AI-30A(D1)	SCS
27-2/1A3	9397	G080	12IAV53L1A	1A3	CA
27-2XB/D1	9808	G080	12HFA51A42F	AI-30A(D1)	SCS
27-3X/1A3	57238	P297	KAP14DG	AI-23A	SCS
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1X/1A1	57238	G080	12HFA51A42H	A1-23A	CA
27T1Y/1A1	57238	G080	12HFA51A42H	AI-23A	CA
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27XI/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 'vUX	SCS
50-51/D1-1	9405	G080	12IAC51B17A	AI-24	CA
50-51/D1-2	9405	G080	12IAC51B17A	AI-24	CA
50-51/D1-3	9405	G080	12IAC51B17A	Al-24	CA
50-51/T1A-1-1	9407	G080	12IAC53B50A	AI-23	CA
50-51/T1A-1-2	9407	G080	12IAC53B50A	AI-23	CA
50-51/T1A-1-3	9407	G080	12IAC53B50A	AI-23	CA
50-51/T1A-2-1	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-2-2	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-2-3	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-3-1	9407	G080	12IAC53B2A	AI-24	CA
50-51/T1A-3-2	9407	G080	12IAC53B2A	AI-24	CA
50-51/T1A-3-3	9407	G080	12IAC53B2A	AI-24	CA
51/1A11-1	9400	G080	12IAC53A101A	AI-23	CA
51/1A11-2	9400	G080	12IAC53A101A	AI-23	CA
51/1A11-3	9400	G080	12IAC53A101A	AI-23	CA
51/1A24-1	9403	G080	12IAC53A101A	A1-25	SCS
51/1A24-2	9403	G080	12IAC53A101A	AI-25	SCS
51/1A24-3	9403	G080	12IAC53A101A	AI-25	SCS
51/1A31-1	9400	G080	12IAC53A101A	AI-23	CA
51/1A31-2	9400	G080	12IAC53A101A	AI-23	CA
51/1A31-3	9400	G080	12IAC53A101A	AI-23	CA
51/1A44-1	9403	G080	12IAC53A101A	A1-25	SCS
51/1A44-2	9403	G080	12IAC53A10IA	AI-25	SCS
51/1A44-3	9403	G080	12IAC53A10IA	AJ-25	SCS
52XX-2/4	9406	G080	12HFA54E187H	52XX-2/4	CA

52XX-2/5	9406	G080	12HFA54E187H	52XX-2/5	CA
63FP/T1A-3	9407	G080	TYPE J	T1A-3	CA
63FPX-1/T1A-3	9407	P297	KAPIIDG	A1-24	CA
63FPX/T1A-3	9407	G080	CR2790E100	TIA-3	CA
67/D1	9405	G080	12GGP53B1A	AI-24	CA
86-1/T1A-3	9407	G080	12HEA61C239 or X2	AI-24	CA
86-2/SVG1	9406	G080	12HEA61C239 or X2	AI-22	CA
86-2/T1A-3	9407	G080	12HEA61C239 or X2	AI-24	CA
86-3/G1	9407	G080	12HEA61C239 or X2	AI-21	CA
86-3/GT1	9407	G080	12HEA61C239 or X2	AI-21	CA
86/161	9410	G080	12HEA61C	AI-22	SCS
86/1A11	9400	G080	12HEA61C238 or X2	AJ-23	CA
86/1A13	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A24	9403	G080	12HEA61C238 or X2	A1-25	SCS
86/1A31	9400	G080	12HEA61C238 or X2	AI-23	CA
86/1A33	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A4-TFB	9406	G080	12HEA61C239 or X2	A1-25	SCS
86/1A44	9403	G080	12HEA61C238 or X2	A1-25	SCS
86/D1	9405	G080	12HEA61C239 or X2	A1-24	SCS
86/D2	9405	G080	12HEA61C239 or X2	AI-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/D1	9808	G080	12HEA61C238 or X2	A1-30A(D1)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	S
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	Sis
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/D1	9808	G080	12HEA61C238 or X2	AI-30A(D1)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	A1-308(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
87/161-1	9410	G080	12IFD51A1A	AI-22	CA
87/161-2	9410	G080	12IFD51A1A	AI-22	CA
87/161-3	9410	G080	121FD51A1A	A1-22	CA
87/1AD1-1	9405	G080	12CFD12B1A	AI-24	OUT
87/1AD1-2	9405	G080	12CFD12B1A	AI-24	OUT
87/1AD1-3	9405	G080	12CFD12B1A	AI-24	OUT
87/GT1-1	9407	G080	12BDD16B11A	AI-21	CA
87/GT1-2	9407	G080	12BDD16B11A	AI-21	CA
87/GT1-3	9407	G080	12BDD16B11A	AI-21	CA
87/T1A-1-1	9407	G080	12BDD15B11A	A1-23	CA
87/T1A-1-2	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-1-3	9407	G080	12BDD15B11A	A1-23	CA
87/T1A-2-1	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-2-2	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-2-3	9407	G080	12BDD15B11A	AI-26	CA
87/T1A-3-1	9407	G080	12BDD15B11A	AI-24	CA
87/T1A-3-2	9407	G080	12BDD15B11A	A1-24	CA
87/T1A-3-3	9407	G080	12BDD15B11A	AI-24	CA
89XX-3/DST1	9406	G080	12HFA54E187H	89XX-3/DST1	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
ACCI/DI	17396	P297	KRP14DG	AI-133A	SCS
ACC2/D1	17396	P297	KRP14DG	AI-133A	SCS
AI-133A-2CR	10791	G080	CR105M000ADA	AI-133A	CA
AI-133A-41C	10791	P297	KAPIIDG	AI-133A	SCS
AI-133A-94	10791	P297	KRP14DG	AI-133A	SCS
AI-3-M1	1587	A160	702-DAD94	AI-3	CA

AI-3-M2	1587	A160	702-DAD94	AI-3	CA
AI-31A-AW7-K(AB)1	1587	C490	6924-34460	A1-31A	SCS
AI-31A-AW7-K(AB)2	1587	C490	6924-34460	AI-31A	SCS
AI-31B-BW19-K1	1587	S345	8501-GD0-26	AI-31B	CA
AI-31B-BW19-K11	1587	C346	HG3A-1008	AI-31B	SCS
AI-31B-BW19-K13	1587	C346	HG3A-1008	AI-31B	SCS
AI-31B-BW19-KTD1	1587	A160	700-NT200-A1	AI-31B	SCS
AI-31B-BW20-K3	1587	S345	8501-GD0-26	AI-31B	CA
AI-31B-BW6-K(BC)1	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW6-K(BC)2	1587	C490	6924-34460	Al-31B	SCS
AI-31B-BW7-K(BD)1	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW7-K(BD)2	1587	C490	6924-34460	AI-31B	SCS
AI-31B-IR-1	1587	A109	EGPI	AI-31B	SCS
AI-31B-IR-2	1587	A109	EGPI	AI-31B	SCS
AI-31C-CW6-K(AC)1	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW6-K(AC)2	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW7-K(CD)1	1587	C490	6924-34460	Al-31C	SCS
AI-31C-CW7-K(CD)2	1587	C490	6924-34460	AI-31C	SCS
AI-31D-DW6-K(AD)1	1587	C490	6924-34460	AI-31D	SCS
AI-31D-DW6-K(AD)2	1587	C490	6924-34460	AI-31D	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D1-112	17397	G080	VB152	DI	OUT
D1-178-42BPM1	17397	C770	6002H336B	DI	CA
D1-178-42BPM2	17397	C770	6002H336B	DI	CA
D1-178-42FP	17397	C770	6002H336B	DI	CA
D1-18A-103CX	17397	P297	KAPIIDG	DI	CA
D1-21-103A	17397	P297	KRP14DG	DI	SCS
D1-21-103B	17397	P297	KRP14DG	DI	SCS
D1-21-103BX	17397	P297	KRP14DG	DI	SCS
D1-21-103C	17397	P297	KRP14DG	Di	SCS
D1-21-104E1	17396	P297	KRP14DG	DI	SCS
D1-21-104E1X	17396	P297	KRP14DG	D1	SCS
D1-21-104E2	17396	P297	KRP14DG	DI	SCS
D1-21-104E2X	17396	P297	KRP14DG	DI	SCS
D1-21-104N	17397	P297	KRP14DG	DI	SCS
D1-21-104NX	17397	P297	KRP14DG	DI	SCS
D1-21-105	17397	P297	KRP14DG	DI	SCS
D1-21-105X	17397	P297	KRP14DG	DI	SCS
D1-21-112X1	17397	P297	KRP14DG	DI	SCS
D1-21-127E1	17396	P297	KRP14DG	DI	SCS
D1-21-127E2	17398	P297	KRP14DG	DI	SCS
D1-21-PS7X2	17397	P297	KRP14DG	DI	SCS
DI-21-PS9X	17397	P297	KRP14DG	DI	SCS
DI-21-TDSTX	17397	P297	KRP14DG	D1	SCS
DI-44-SVIX	17396	C770	1060	DI	OUT
D1-45-SV2X	17396	C770	1060	DI	OUT

DI-46-TDL	17397	A109	2412PD	DI	SCS
D1-47-TDSF	17397	A109	2412PD	DI	SCS
D1-49-TDS1	17396	A109	2412PC	DI	SCS
D1-50-TDS2	17396	A109	2412PC	DI	SCS
DI-52-TDSR	17397	A109	2412PD	DI	SCS
D1-66-42BPM1	17397	C770	A10CN0	DI	OUT
D1-66-42BPM1	17410	C770	A10CNO	DI	CA
D1-66-42BPM1	17410	C770	A10CNO	DI	CA
D1-67-42BPM2	17410	C770	A10CNO	DI	CA
D1-67-42BPM2	17397	C770	A10CN0	DI	OUT
D1-67-42BPM2	17410	C770	A10CNO	DI	CA
D1-68-42FP	17411	S972	77U32	DI	CA
D1-68-42FP	17397	S972	77U32	DI	OUT
D1-68-42FP	17411	\$972	77U32	DI	CA
PC-6026	17396	S382	6N-AA2-SPP	DG-1	CA
PC-6038	17396	S382	6NN-L5	DG-1	CA
PC-6039	17396	S382	6NN-L5	DG-1	CA
PCA-3349	17397	E147	8362040	DG-1	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
PS-6019-1	17397	S382	6N-AA3-S1-PP	DG-1	CA
RS1/D1	17396	P297	KRP14DG	AI-133A	SCS
RS2/D1	17396	P297	KRP14DG	AI-133A	SCS
TCA-3345	17397	F081	22800-0	DG-1	CA
YT-6048	17398	\$519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in all modes in its direct path. Bad actor relay connected to lockout relay could cause permanent engine shutdown. This is a candidate for corrective action;

- 2) Functionally screened relays are from DG Anticipatory Start Circuitry;
- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) 2CR must operate to flash the field. 1CR opens 2CR. 1CR is based on D/G output voltage. A chatter may cause some delay in getting the D/G to full voltage. Diodes are installed to prevent interaction with the DC system.
- 5) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 6) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 7) D/G Breaker protection is overridden in an ema cy start and breaker close. Engine shutdown by the "86" Lockout relay is also overridden by the engine emergency start.
- 8) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.
- 9) PC-6026, PC-6126, TCA-3345, TCA-3346, PCA-3349, PCA-3350, PS-6019 & PS-6020 are bypassed on emergency start.

EQUIPMENT DISP	POSTION: Not Screened			
REASON:	Equipment Affected by out	lier relays (see OSVS).		
PREPARED BY:	J.K. Mathew 400	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: DG-2

SYSTEM: DG

DESCRIPTION:

EDG #2 ENGINE (EE-1G)

CLASS: 17

FUNCT: A

PATH: AUX/EDG

ROOM: 64

ELEVATION: 1010

LOCATION: 03EF-07S2B

P and ID:

16303

POWER: NA

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
ICR/D2	6622	P297	CST-38-70010	AI-133B	SWGR
ICRX/D2	17397	P297	KRP14DG	D2 ·	SWGR
27-1/1A2	57240	G080	12IAV53L1A	1A2	CA
27-1/1A4	9398	G080	12IAV53L1A	1A4	CA
27-1XA/D2	9818	G080	12HFA151A2F	AI-30B(D2)	SCS
27-2/1A2	57240	G080	12IAV53L1A	1A2	CA
27-2/1A4	9398	G080	12IAV53L1A	1A4	CA
27-2XB/D2	9818	G080	12HFA151A2F	A1-30B(D2)	SCS
27-3X/1A4	57240	P297	KAP14DG	AI-25A	SCS
27-TI/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27T1/1A2	57240	A109	2452PB	AI-26A	CA
27T1X/1A2	57240	G080	12HFA51A42H	AI-26A	CA
27T1Y/1A2	57240	G080	12HFA51A42H	AI-26A	CA
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
50-51/D2-1	9405	G080	121AC51B17A	AI-25	CA
50-51/D2-2	9405	G080	12IAC51B17A	AI-25	CA
50-51/D2-3	9405	G080	121AC51B17A	AI-25	CA
50-51/T1A-1-1	9407	G080	12IAC53B50A	AI-23	CA
50-51/T1A-1-2	9407	G080	121AC53B50A	Al-23	CA
50-51/T1A-1-3	9407	G080	12IAC53B50A	AI-23	CA
50-51/T1A-2-1	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-2-2	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-2-3	9407	G080	12IAC53B50A	AI-26	CA
50-51/T1A-4-1	9407	G080	121AC53B2A	AI-25	CA
50-51/T1A-4-2	9407	G080	12IAC53B2A	AI-25	CA
50-51/T1A-4-3	9407	G080	12IAC53B2A	A1-25	CA
51/1A13-1	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-2	9401	G080	12IAC53A101A	AI-24	SCS
51/1A13-3	9401	G080	12IAC53A101A	AI-24	SCS
51/1A22-1	9402	G080	12IAC53A101A	Al-26	CA
51/1A22-2	9402	G080	12IAC53A101A	AI-26	CA
51/1A22-3	9402	G080	12IAC53A101A	AI-26	CA
51/1A33-1	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-2	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A33-3	9401	G080	12IAC53A-803A	AI-24	SCS
51/1A42-1	9402	G080	12IAC53A101A	A1-26	CA

51/1A42-2	9402	G080	12IAC53A101A	AI-26	CA
51/1A42-3	9402	G080	12IAC53A101A	A1-26	CA
52XX-2/4	9406	G080	12HFA54E187H	52XX-2/4	CA
52XX-2/5	9406	G080	12HFA54E187H	52XX-2/5	CA
63FP/T1A-4	9407	G080	TYPE J	TIA-4	CA
63FPX-1/T1A-4	9407	G080	12HMA11B6	A1-25	CA
63FPX/T1A-4	9407	G080	CR2970E100	TIA-4	CA
67/D2	9405	G080	12GGP53B1A	AI-25	CA
86-1/T1A-4	9407	G080	12HEA61C239X2	AI-25	CA
86-2/SVG1	9406	G080	12HEA61C239 or X2	AI-22	CA
86-2/T1A-4	9407	G080	12HEA61C239 or X2	A1-25	CA
86-2/T1A-4	9407	G080	12HEA61C239 or X2	AI-25	CA
86-3/G1	9407	G080	12HEA61C239 or X2	A1-21	CA
86-3/GT1	9407	G080	12HEA61C239 or X2	AI-21	CA
86/1A13	9401	G080	12HEA61C238 or X2	AI-24	SCS
86/1A22	9402	G080	12HEA61C238 or X2	AI-26	CA
86/1A24	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/1A3-TFB	9406	G080	12HEA61C239 or X2	A1-24	SCS
86/1A33	9401	G080	12HEA61C238 or X2	A1-24	SCS
86/1A42	9402	G080	12HEA61C238 or X2	AI-26	CA
86/1A44	9403	G080	12HEA61C238 or X2	AI-25	SCS
86/D1	9405	G080	12HEA61C239 or X2	AI-24	SCS
86/D2	9405	G080	12HEA61C239 or X2	AI-25	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/D2	9818	G080	12HEA61C238 or X2	AI-30B(D2)	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/D2	9818	G080	12HEA61C238 or X2	A1-30B(D2)	SCS
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
87/1AD2-1	9405	G080	12CFD12B1A	AI-25	OUT
87/1AD2-2	9405	G080	12CFD12B1A	AI-25	OUT
87/1AD2-3	9405	G080	12CFD12B1A	A1-25	OUT
o '7T1-1	9407	G080	12BDD16B11A	A1-21	CA
T1-2	9407	G080	12BDD16B11A	Al-21	CA
8 (7) 1-3	9407	G080	12BDD16B11A	A1-21	CA
87 T.A-1-1	9407	G080	12BDD15B11A	A1-23	CA
87/T1A-1-2	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-1-3	9407	G080	12BDD15B11A	AI-23	CA
87/T1A-2-1	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-2-2	9407	G080	12BDD15B11A	A1-26	CA
87/T1A-2-3	9407	G080	12BDD15B11A	AI-26	CA
87/T1A-4-1	9407	G080	12BDD15B11A	A1-25	CA
87/T1A-4-2	9407	G080	12BDD15B11A	A1-25	CA
87/T1A-4-3	9407	G080	12BDD15B11A	AI-25	CA
89XX-3/DST1	9406	G080	12HFA54E187H	89XX-3/DST1	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
				AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H		SCS
ACC1/D2	17396	P297	KRP14DG	AI-133B	SCS
ACC2/D2	17396	P297	KRP14DG	AI-133B	CA
Al-133B-2CR	10791	G080	CR105M000ADA	AI-133B	SCS
AI-133B-41C	10791	P297	KAPIIDG	AI-133B	
AI-133B-94	10791	P297	KRP14DG	AI-133B	SCS
AI-3-M3	1587	A160	702-DAD94	AI-3	CA

AI-3-M4	1587	A160	702-DAD94	AI-3	CA
AI-31A-AW7-K(AB)3	1587	C490	6924-34460	AI-31A	SCS
AI-31A-AW7-K(AB)4	1587	C490	6924-34460	AI-31A	SCS
AI-31B-BW6-K(BC)3	1587	C490	6924-34460	AI-31B	SCS
AI-31B-BW6-K(BC)4	1587	C490	6924-34460	AI-31B	SCS
AJ-31B-BW7-K(BD)3	1587	C490	6924-34460	AI-31B	SCS
A!-31B-BW7-K(BD)4	1587	C490	6924-34460	Al-31B	SCS
AI-31C-CW19-K12	1587	C346	HG3A-1008	Al-31C	SCS
AI-31C-CW19-K14	1587	C346	HG3A-1008	AI-31C	SCS
AI-31C-CW/ 3-K2	1587	\$345	8501-GD0-26	AI-31C	CA
AI-31C-CW19-KTD2	1587	A160	700-NT200-A1	AI-31C	SCS
A1-31C-CW20-K4	1587	\$345	8501-GD0-26	AI-31C	CA
AI-31C-CW6-K(AC)3	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW6-K(AC)4	1587	C490	6924-34460	AI-31C	SCS
A1-31C-CW7-K(CD)3	1587	C490	6924-34460	AI-31C	SCS
AI-31C-CW7-K(CD)4	1587	C490	6924-34460	Al-31C	SCS
AI-31C-IR-3	1587	A109	EGPI	AI-31C	SCS
AI-31C-IR-4	1587	A109	EGPI	AI-31C	SCS
AI-31D-DW6-K(AD)3	1587	C490	6924-34460	Al-31D	SCS
A1-31D-DW6-K(AD)4	1587	C490	6924-34460	AI-31D	SCS
B/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	5382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/FIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D2-112	17397	G080	VB152	D2	OUT
D2-178-42BPM1	17397	C770	6002H336B	D2	CA
D2-178-42BPM2	17397	C770	6002H336B	D2	CA
D2-178-42FP	17397	C770	6002H336B	D2	CA
D2-18A-103CX	17397	P297	KAPIIDG	D2	CA
D2-21-103A	17397	P297	KRP14DG	D2	SCS
D2-21-103B	17397	P297	KRP14DG	D2	SCS
D2-21-103BX	17397	P297	KRP14DG	D2	SCS
D2-21-103C	17397	P297	KRP14DG	D2	SCS
D2-21-104E1	17396	P297	KRP14DG	D2	SCS
D2-21-104E1X		P297	KRP14DG	D2	SCS
	17396	P297	KRP14DG	D2 D2	SCS
D2-21 104E2	17396			D2	SCS
D2-21-104E2X	17396	P297	KRP14DG	D2	SCS
D2-21-104N	17397	P297	KRP14DG		
D2-21-104NX	17397	P297	KRP14DG	D2	SCS
D2-21-105	17397	P297	KRP14DG	D2	SCS
D2-21-105X	17397	P297	KRP14DG	D2	SCS
D2-21-112X1	17397	P297	KRP14DG	D2	SCS
D2-21-127E1	17396	P297	KRP14DG	D2	SCS
D2-21-127E2	17398	P297	KRP14DG	D2	SCS
D2-21-PS7X2	17397	P297	KRP14DG	D2	SCS
D2-21-PS9X	17397	P297	KRP14DG	D2	SCS
D2-21-TDSTX	17397	P297	KRP14DG	D2	SCS
D2-44-SV1X	17396	C770	1060	D2	OUT
D2-45-SV2X	17396	C770	1060	D2	OUT

Γ 2-46-TDL	17397	A109	2412PD	D2	SCS
1/2-47-TDSF	17397	A109	2412PD	D2	SCS
D2-49-TDS1	17396	A109	2412PC	D2	SCS
D2-50-TDS2	17396	A109	2412PC	D2	SCS
D2-52-TDSR	17397	A109	2412PC	D2	SCS
D2-66-42BPM1	17410	C770	A10CNO	D2	CA
D2-66-42BPM1	17397	C770	A10CN0	D2	OUT
D2-67-423PM2	17410	C770	A10CNO	D2	CA
D2-67-42BPM2	17397	C770	A10CN0	D2	OUT
D2-67-42BPM2	17410	C770	A10CNO	D2	CA
C-2-68-42FP	17397	S972	77U32	D2	CUT
PC-6126	17396	S382	6N-AA2-SPP	DG-2	CA.
PC-6138	17396	S382	6NN-L5	DG-2	CA
PC-6139	17396	S382	6NN-L5	DG-2	CA
PCA-3350	17397	E147	8362040	DG-2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BL/CK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
PS-6020-1	17397	S382	6N-AA2-SPP	DG-2	CA
RS1/D2	17396	P297	KRP14DG	AI-133B	SCS
RS2/D2	17396	P297	KRP14DG	AI-133B	SCS
TCA-3346	17397	F081	22800-0	DG-2	CA
YT-6148	17398	\$519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in all modes in its direct path. Bad actor relay connected to lockout relay could cause per manent engine shutdown. This is a candidate for corrective action;

- 2) Functionally screened relays are from DG Anticipatory Start Circuitry;
- 3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 4) 2CR must operate to frash the field. 1CR opens 2CR. 1CR is based on D/G output voltage. A chatter may cause some delay in getting the D/G to full voltage. Diodes are installed to prevent interaction with the DC system.
- 5) These dropout the clutches to trip the reactor. Depending on when the chatter occurs it could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 6) The time delay relay is set at 2 seconds interposed between "27" relays and actuation. Chatter of milliseconds is not a problem. Other contacts are for annunciation only.
- 7) D/G Breaker protection is overridden in an emergency start and breaker close. Engine shutte wn by the "86" Lockout relay are also overridden by the engine emergency start.
- Switch and permissive must be used to complete seal -ir. -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.
- 9) PC-6026, PC-6126, TCA-3345, TCA-3346, PCA-3349, PCA-3350, PS-6019 & PS-6020 are bypassed on emergency start.

EQUIPMENT DISP	POSTION: Not Screened			
REASON:	Equipment Affected by outl	ier relays (see OSVS).		
PREPARED BY:	J.K. Mathew Clark	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey ATTY	DATE:	9/8/95	

EQUIPMENT ID: FCV-1368

SYSTEM: FW-AFW

DESCRIPTION:

AFW PUMP FW-6 RECIRC TO EFWST

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 19

ELEVATION: 993

LOCATION: 07WC18N3A

P and ID:

56510

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
94/1368	37570	G080	CR120A26241	CB-10,11	SCS
94/1368A	37570	G080	CR120A	AI-179	SCS
FIC-1368	37570	S185	9222-20E-VB-13M	CB-10,11	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch (FIC-1368) has direct control of valve state.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) Chatter of these contacts may try to close the valve. However, the chatter of the open contacts will counteract the closing signal of the valve.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Okto	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey 8777	DATE:	9/8/95	

EQUIPMENT ID: FCV-1369

SYSTEM: FW-AFW

DESCRIPTION:

AFW PUM P FW-10 RECIRC

CLASS: 7

FU (CT: A

PATH: DHR

ROOM: 19

ELEVATION: 991

LOCATION: 03WC7N3AA

P and ID:

56510

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
43X/RC-2B	22125	E155	SERIES 24	AI-179	CA
94/1369	37570	G080	CR120A26241	CB-10,11	SCS
94/1369A	17570	G080	CR120A26241	AI-179	SCS
FIC-1369	37570	S185	9222-30E	AI-66B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch (FIC-1369) has direct control of valve state.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) Chatter of these contacts may try to close the valve. However, the chatter of the open contacts will counteract the closing signal of the valve.

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew 400	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: FCV-269

SYSTEM: CH

DESCRIPTION: BLEEDING TEE CH-13; B.A.S.T. INLET VALVE

CLASS: 7

FUNCT: P

PATH: RC

ROOM: 26

ELEVATION: 1011

LOCATION: 51W'T-8N'6E

P and ID:

55250

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
63X/LIC-219	6153	G080	12HFA151A9H	AC-DC-2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86E1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94/269	6153	G080	CR120A26241	CB-4	CA
A/94-1/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	J2HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circui:. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT D'SP	OSTION: Screened		
REASON:			
PREPARED BY:	J.K. Mathew OK	DATE:	9/8/95
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95

EQUIPMENT ID: FO-4A-1-M

SYSTEM: FO-DG

DESCRIPTION: DG-1 FUEL OIL TRANSFER PUMP MOTOR

CLASS: 5

FUNCT: A

PATH: AUX/EDG

ROOM: 63

ELEVATION: 1012

LOCATION: 03WK-09N1A

P and ID:

17408

POWER: D1-69-8FT1

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
D1-66-42BPM1	17397	C770	A10CN0	DI	OUT
D1-66-42BPM1	17410	C770	A10CNO	D1	CA
D1-66-42BPM1	17410	C770	A16CNO	DI	CA
LC-3418B	17410	G050	LS-1800	FO-2-1	CA
LC-3418C	17410	G050	LS-1800	FO-2-1	CA
LCA-3418B	17410	G050	LS-1800	FO-2-1	CA
LCA-3418C	17410	G050	LS-1800	FO-2-1	CA
LSHI/X	17410	P297	KRP14DG	DI	CA
LSHI/X	17410	P297	KRP14DG	DI	CA
LSH2/X1	17410	P297	KRP14DG	Di	CA
LSH2/X1	17410	P297	KRP14DG	DI	CA
LSL1/X	17410	P297	KRP14DG	DI	CA
LSL1/X	17410	P297	KRP14DG	DI	CA
LSL2/X1	17410	P297	KRP14DG	DI	CA
LSL2/X1	17410	P297	KRP14DG	DI	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pump not needed during SSE, but on occassion later (within 72 hours). Relay chatter can cause spurious start, but level switches will turn pump off/on;

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE: _	9/8/95	

EQUIPMENT ID: FO-4A-2-M

SYSTEM: FO-DG

DESCRIPTION: DG-2 FUEL OIL TRANSFER PUMP MOTOR

CLASS: 5

FUNCT: A

PATH: AUX/EDG

ROOM: 64

ELEVATION: 1012 LOCATION: 03WK-06S2B

P and ID:

17408

POWER: D2-69-8FT2

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
D1-67-42BPM2	17410	C770	A10CNO	DI	CA
D1-67-42BPM2	17397	C770	A10CN0	DI	OUT
D1-67-42BPM2	17410	C770	A10CNO	DI	CA
LC-3419B	17410	G050	LS-1800	FO-2-2	CA
LC-3419C	17410	G050	LS-1800	FO-2-2	CA.
LCA-3419B	17410	G050	LS-1800	FO-2-2	
.CA-3419C	17410	G050	LS-1800	PO-2-2	CA
LSHI/X	17410	P297	KRP14DG	D2	CA
LSHI/X	17410	P297	KRP14DG	D2	CA
LSH2/X1	17410	P297	KRP14DG	D2	CA
LSH2/X1	17410	P297	KRP14DG	D2	CA
LSL1/X	17410	P297	KRP14DG	D2	CA
LSL1/X	17410	P297	KRP14DG	D2	CA
LSL2/X1	17410	P297	KRP!4DG	D2	CA
LSL2/X1	17410	P297	KRP14DG	D2	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pump not needed during SSE, but on occassion later (within 72 hours). Relay chatter can cause spurious start, but level switches will turn pump off/on;

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OKWO	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey A77	DATE:	9/8/95	

EQUIPMENT ID: FO-4B-1-M SYSTEM: FO-DG

DESCRIPTION: DG-1 FUEL OIL TRANSFER PUMP MOTOR

CLASS: 5 FUNCT: A PATH: AUX/EDG

ROOM: 63 ELEVATION: 1012 LOCATION: 03WK-07N1A

P and ID: 17408 POWER: D1-70-8FT1

NORMAL STATE: *OFF* DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
D2-66-42BPM1	17397	C770	A10CN0	D2	OUT
D2-66-42BPM1	17410	C770	A 10CNO	D2	CA
LC-3418B	17410	G050	LS-1800	FO-2-1	CA
LC-3418C	17410	G050	LS-1800	FO-2-1	CA
LCA-3418B	17410	G050	LS-1800	FO-2-1	CA
LCA-3418C	17410	G050	LS-1800	FO-2-1	CA
LSHI/X	17410	P297	KRP14DG	Di	CA
LSHI/X	17410	P297	KRP14DG	DI	CA
LSH2/X1	17410	P297	KRP14DG	DI	CA
LSH2/X1	17410	P297	KRP14DG	DI	CA
LSL1/X	17410	P297	KRP14DG	DI	CA
LSL1/X	17410	P297	KRP14DG	DI	CA
LSL2/X1	17410	P297	KRP14DG	DI	CA
LSL2/X1	17410	P297	KRP14DG	DI	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pump not needed during SSE, but on occassion later (within 72 hours). Relay chatter can cause spurious start, but level switches will turn pump off/cn;

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Ollo	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: FO-4B-2-M

SYSTEM: FO-DG

DESCRIPTION: DG-2 FUEL OIL TRASNFER PUMP MOTOR

CLASS: 5

FUNCT: A

PATH: AUX/EDG

ROOM: 64

ELEVATION: 1012

LOCATION: 03WK-08S2B

P and ID:

17408

POWER: D2-70-8FT2

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
D2-67-42BPM2	17410	C770	A10CNO	D2	CA
D2-67-42BPM2	17410	C770	A10CNO	D2	CA
D2-67-42BPM2	17397	C770	A10CN0	D2	OUT
LC-3419B	17410	G050	LS-1800	FO-2-2	CA
LC-3419C	17410	G050	LS-1800	FO-2-2	CA
LCA-3419B	17410	G050	LS-1800	FO-2-2	CA
LCA-3419C	17410	G050	LS-1800	FO-2-2	CA
LSHI/X	17410	P297	KRP14DG	D2	CA
LSHI/X	17410	P297	KRP14DG	D2	CA
LSH2/X1	17410	P297	KRP14DG	D2	CA
LSH2/X1	17410	P297	KRP14DG	D2	CA
LSL1/X	17410	P297	KRP14DG	D2	CA
LSL1/X	17410	P297	KRP14DG	D2	CA
LSL2/X1	17410	P297	KRP14DG	D2	CA
LSL2/X1	17410	P297	KRP14DG	D2	CA

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pump not needed during SSE, but on occassion later (within 72 hours). Relay chatter can cause spurious start, but level switches will turn pump off/on;

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OK	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-1041A

SYSTEM: MS

DESCRIPTION: RC-2A ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 81

ELEVATION: 1040

LOCATION: 10WD-3N4A

P and ID:

10458

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/SGIS	24061	G080	12HFA151A2H	CB-4 AUX	SCS
86B/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
86X-B-A1/CPHS	5976	G080	12HFA151A2F	AJ-43B	OUT
04/1041	12263	G080	CR120A26241	CB-4	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-A1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
A/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	5382	12N6BB4NXCIAJJTTX6	B/PC-742-2	SCS
3/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
3/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
B/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
3/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
WPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIC-902	9800	D989	BB101AJTX10	CB-4	SCS
VPIC-905	9800	D989	BB101AJTX10	CB-4	SCS
VPIC-A4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
VPIC-B4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
GLS/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX	SCS
GLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SGIS ESF signal are functionally screened.

EQUIPMENT DISP	POSTION: Not Screened			
REASON:	Equipment Affected by outlie	er relays (see OSVS).		
PREPARED BY:	J.K. Mathew 400	DATE: _	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE.	0/8/05	

EQUIPMENT ID: HCV-1041C

SYSTEM: MS

DESCRIPTION: RC-2A BYPASS ISOLATION VALVE

CLASS: 7

FUNCT: P

ROOM: 81

ELEVATION: 1042

LOCATION: 12WD06N4A

P and ID:

10458

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
74/HCV-1041C	21357	S440	219BBXP	MCC-4A1	CA
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
6A1/CPHS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS ,
6B/CPHS	9816	G050	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/SGIS	24061	G080	12HFA151A2H	CB-4 AUX	SCS
6B/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
6X-B-A1/CPHS	5976	G080	12HFA151A2F	AI-43B	OUT
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
/PIC-A1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
/PIC-902	9300	D989	BB101AJTX10	CB-4	SCS
/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJITTX6	D/PC-742-2	SCS
VPIC-902	9800	D989	BB101AJTX10	CB-4	SCS
/PIC-905	9800	D989	BBIOIAJTXIO	CB-4	SCS
/PIC-A4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
PIC-B4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
fc/HCV-1041C	21357	G080	CR106	MCC-4A1	CA
fo/HCV-1041C	21357	G080	CR106	MCC-4A1	CA
GLE/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX	SCS
GLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SGIS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Not Screened REASON: Equipment Affected by outlier relays (see OSVS). 9/8/95 J.K. Mathew PREPARED BY: DATE: VERIFIED BY: R.F. Mehaffey 9/8/95

DATE:

EQUIPMENT ID: HCV-1042A

SYSTEM: MS

DESCRIPTION: RC-2B ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 81

ELEVATION: 1040

LOCATION: 15WD19N4A

P and ID:

10458 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
86AX/SGIS	24062	G080	12HFA151A2H	CB-4 AUX	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
S6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86X-A-B1/CPHS	24060	G680	12HFA151A2F	AI-43A	SCS
94/1042	12263	G080	CR120AD04041AA	CB-4	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	A/PC-742-2	SCS
A/PtC-902	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
VPIC-A1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
A/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	98+1	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
3/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
3/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
3/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
3/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
OVPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIC-902	9800	D989	BB101AJTX10	CB-4	SCS
VPIC-905	9800	D989	BB101AJTX10	CB-4	SCS
VPIC-A4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
D/PIC-B4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
SGLS/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX	SCS
GLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SGIS ESF signal are functionally screened.

EQUIPMENT DISP	O'TION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew CK	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-1042C SYSTEM: MS

DESCRIPTION: RC-2B BYPASS ISOLATION VALVE

CLASS: 7 FUNCT: P

PATH: DHR

ROOM: 81

ELEVATION: 1042

LOCATION: 10EG-20N4A

P and ID:

10458 F

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX		STATUS
74/HCV-1042C	21357	S440	219BBXP	MCC-4C1		CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)		SCS
86A/SGLS	9800	G080	12HEA61C239 or X2	CB-4		SCS
86AX/SGIS	24062	G080	12HFA151A2H	CB-4 AUX		SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	A1-30B(ESF)		SCS
86B/SGLS	9800	G080	12HEA61C239 or X2	CB-4		SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)		SCS
86X-A-B1/CPHS	24060	G080	12HFA151A2F	AI-43A		SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1		SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2		SCS
A/PIC-902	9800	D989	BB101AJTX10	CB-4		SCS
A/PIC-905	9800	D989	BBIOLAJTXIO	CB-4		SCS
A/PIC-A1	9800	G080	12HFA151A9H	CB-4 AUX		SCS
A/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX		SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1		SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2		SCS
B/PIC-902	9800	D989	BB101AJTX10	CB-4		SCS
B/PIC-905	9800	D989	BB101AJTX10	CB-4		SCS
B/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX		SCS
B/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX		SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	4	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2		SCS
C/PIC-902	9800	D989	BB101AJTX10	CB-4		SCS
C/PIC-905	9800	D989	BB101AJTX10	CB-4		SCS
C/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX		SCS
C/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX		SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1		SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2		SCS
D/PIC-902	9800	D989	BB101AJTX10	CB-4		SCS
D/PIC-905	9800	D989	BB101AJTX10	CB-4		SCS
D/PIC-A4	9800	G080	12HFA151A9H	CB-4 AUX		SCS
D/PIC-B4	9800	G080	12HFA151A9H	CB-4 AUX		SCS
Mc/HCV-1042C	21357	G080	CR106	MCC-4C1		CA
Mo/HCV-1042C	21357	G080	CR106	MCC-4C1		CA
SGLS/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX		SCS
SGLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX		SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SGIS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

Hom

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

Sim.

DATE:

9/8/95

EQUIPMENT ID: HCV-1107A SYSTEM: FW-AFW

DESCRIPTION: RC-2A AFW INLET VALVE

CLASS: 7 FUNCT: A PATH: DHR

ROOM: CONT ELEVATION: 1050 LOCATION: 15WBB09NII

P and ID: 56510 POWER: NA

NORMAL STATE: *C* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
94/1107A-1	21422	G080	CR120A	AI-179	CA
94/1107A-2	21422	G080	12HFA151A2H	A1-66A	CA
A/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
B/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
BI/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66B	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

EQUIPMENT DISP	OSTION: Not Screened			
REASON:	Equipment Affected by outli	er relays (see OSVS).		
PREPARED BY:	J.K. Mathew Ach	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-1107B

SYSTEM: FW-AFW

DESCRIPTION: RC-2A AFW INLET VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 81

ELEVATION: 1038

LOCATION: 00WH-4N3A

P and ID:

56510

POWER: NA

NOR" JAL STATE: *C*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	Al-197	SCS
03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-I	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
43X/RC-2A	20260	E155	SERIES 24	AI-179	CA
63/1107B	21422	G080	CR120BD05041	AI-66A	C
94/1107B-1	21422	G080	12HFA151A2H	AI-66B	CA
A/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
B/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66B	SCS
BI/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
PS-1107B	21422	A 499	SBIIAR	PS-1107B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

EQUIPMENT DISP	POSTION: Not Screened			
REASON:	Equipment Affected by outli	er relays (see OSVS).		
PREPARED BY:	J.K. Mathew QUO	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-1108A

SYSTEM: FW-AFW

NORMAL STATE: *C*

DESCRIPTION: RC-2B AFW INLET VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: CONT

ELEVATION: 1050 LOCATION: 14WBB-31NIII

P and ID: 56510 POWER: NA

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-2C2B-1-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-i	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	A1-198	SCS
03/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
94/1108A-1	21421	G080	CR120A26241	AI-179	CA
94/1108A-2	21421	G080	12HFA151A2H	AI-66A	CA
A/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
A1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
B/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
B1/RC-2B/AFWS	16145	G080	12HFA151A2H	Al-66B	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON: Equipment Affected by outlier relays (see OSVS).

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-1108B

SYSTEM: FW-AFW

DESCRIPTION: RC-2B AFW INLET VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 81

ELEVATION: 1038

LOCATION: 02EJ-0N5B

P and ID:

56510 POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
43X/RC-2B	22125	E155	SERIES 24	A1-179	CA
63/1108B	21421	G080	CR120ED05041	AI-66B	CA
94/1108B-1	21421	G080	12HFA151A2H	AI-66B	CA
A/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
A1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
B/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
BI/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
PS-1108B	21421	A499	SBIIAR	PS-1108B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (Sec. App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS FSF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	POSTION: Not Screened					
REASON: Equipment Affected by outlier relays (see OSVS).						
PREPARED BY:	J.K. Mathew	DATE:	9/8/95			
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95			

EQUIPMENT ID: HCV-1384

SYSTEM: FW-AFW

DESCRIPTION.

FW-AFW CROSS CONNECT VALVE

CLASS: 7

FUNCT: P

PATH: DHR

ROOM: 81

ELEVATION: 1039

LOCATION: 22ED-21N5B

P and ID:

56510

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
74/HCV-1384	54553	S440	219BBXP	MCC-4C1	CA
Mc/HCV-1384	54553	G080	CR106	MCC-4C1	CA
Mo/HCV-1384	54553	G080	CR106	MCC-4C1	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seismic screening required for Mo/HCV-1384 due to seal-in function;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Not Screened			
REASON:				
PREPARED BY:	J.K. Mathew Ach	DATE:	9/8/95	
ALEXANDERS DAY	D.E. Mahaffan	No. 1 april 2	0/0/08	

EQUIPMENT ID: HCV-1385 SYSTEM: FW

DESCRIPTION: RC-2B FEEDWATER INLET VALVE

CLASS: 7 FUNCT: A PATH: DHR

ROOM: 81 ELEVATION: 1038 LOCATION: 20WD20N4A

P and ID: 10459 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
74/HCV-1385	41890	S440	2198BXP	MCC-3A1	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/SGIS	24062	G080	12HFA151A2H	CB-4 AUX	SCS
86A/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
8561/CPHS	9807	G080	12HEA61C244 or X2	Ai-30A(ESF)	SCS
86X-A-BI/CPHS	24060	G080	12HFA151A2F	AI-43A	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-A1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
A/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
B/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
B/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
B/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
B/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
D/PIC-905	9800	D989	BE101AJTX10	CB-4	SCS
D/PIC-A4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
O/PIC-B4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
Mc/HCV-1385	41890	G080	CR106	MCC-3A1	CA
Mo/HCV-1385	41890	G080	CR106	MCC-3A1	CA
SGLS/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX	SCS
SGLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SGIS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-1386 SYSTEM: FW

DESCRIPTION: RC-2A FEEDWATER INLET VALVE

CLASS: 7 FUNCT: A PATH: DHR

ROOM: 81 ELEVATION: 1038 LOCATION: 9EG-15S4A

P and ID: 10459 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
74/HCV-1386	41890	S440	219BBXP	MCC-4C1	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/SGIS	24061	G080	12HFA151A2H	CB-4 AUX	SCS
86B/SGLS	9800	G080	12HEA61C239 or X2	CB-4	SCS
86X-B-A1/CPHS	5976	G080	12HFA151A2F	AI-43B	OUT
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
A/PIC-A1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
A/PIC-B1	9800	G080	12HFA151A9H	CB-4 AUX	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
B/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
B/PIC-A2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
B/PIC-B2	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
C/PIC-A3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
C/PIC-B3	9800	G080	12HFA151A9H	CB-4 AUX	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIC-902	9800	D989	BB101AJTX10	CB-4	SCS
D/PIC-905	9800	D989	BB101AJTX10	CB-4	SCS
D/PIC-A4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
D/PIC-B4	9800	G080	12HFA151A9H	CB-4 AUX	SCS
Mc/HCV-1386	41890	G080	CR106	MCC-4C1	CA
Mo/HCV-1386	41890	G080	CR106	MCC-4C1	CA
SGLS/BLOCK-A	9821	G080	12HFA151A9H	CB-4 AUX	SCS
SGLS/BLOCK-B	9821	G080	12HFA151A9H	CB-4 AUX	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SGIS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Not Screened

REASON:

Equipment Affected by outlier relays (see OSVS).

PREPARED BY:

J.K. Mathew

400

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

5777

DATE:

9/8/95

EQUIPMENT ID: HCV-1387A

SYSTEM: FW-BD

DESCRIPTION: RC-2B BLOW DOWN ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: CONT

ELEVATION: 998

LOCATION: 13WBB07NIV

P and ID:

10459

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-6	41564	G080	12HFA151A2F	AI-43A	SCS
86/A1-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	Al-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-1/RM-054A	9799	G080	12HFA151A9H	AI-33A	CA
94/1387A	22745	G080	CR120AD04041AA	CB-10,11	CA
94/2510	22745	A109	EGPD003	AJ-107	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
FIA-2510	22745	B440	1355-EHA9CFA1H	FIA-2510	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
RM-054A	9799	V115	842-3	AI-33A	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened		
REASON:			
PREPARED BY:	J.K. Mathew Quo	DATE:	9/8/95
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95

SYSTEM: FW-BD **EQUIPMENT ID: HCV-1387B**

DESCRIPTION: RC-2B BLOW DOWN ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 13

ELEVATION: 992

LOCATION: 4WN2N6B

P and ID:

10459 **POWER:** NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
7428-6	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PFLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
94-1/RM-054B	9799	G080	12HFA151A9H	AJ-33A	CA
94/1387B	22745	G080	CR120AD04041AA	CB-10,11	CA
94/2511	22745	A109	EGPD003	AI-107	CA
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2 .	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
DVPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
FIA-2511	22745	B440	1355-EHA9CFA1H	FIA-2511	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-054B	9799	V115	842-3	AI-33A	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew 400	DATE:	9/8/95	
VERIFIED BY-	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-1388A

SYSTEM: FW-BD

DESCRIPTION: RC-2A BLOW DOWN ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: CONT

ELEVATION: 998

LOCATION: 24WAA0NIV

P and ID:

10459

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-6	41564	G080	12HFA151A2F	AI-43A	SCS
86/A1-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AJ-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-1/RM-054A	9799	G080	12HFA151A9H	AI-33A	CA
94/1388A	22745	G080	CR120AD0404iAA	CB-10,11	CA
94/2510	22745	A109	EGPD003	AI-107	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/P[A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
FIA-2510	22745	B440	1355-EHA9CFA1H	FIA-2510	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
RM-054A	9799	V115	842-3	AI-33A	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew QCD	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-1388B SYSTEM: FW-BD

DESCRIPTION: RC-2A BLOW DOWN ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 13

ELEVATION: 991

LOCATION: 08EN01S6B

P and ID:

10459 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742B-6	41567	G080	12HFA151A2F	AI-43B	SCS
66/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HFA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA51C244 or X2	AI-308(ESF)	SCS
86B/PPLS	9816	G080	12HEA6; C237 or X2	AI-30B(ESF)	SCS
94-1/RM-054B	9799	G080	12HFA151A9H	AI-33A	CA
94/1388B	22745	G080	CR120AD04041AA	CB-10,11	CA
94/2511	22745	A109	EGPD003	AI-107	CA
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
FIA-2511	22745	B440	1355-EHA9CFA1H	FIA-2511	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-054B	9799	V115	842-3	AI-33A	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened		
REASON:			
PREPARED BY:	J.K. Mathew	DATE:	9/8/95
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95

EQUIPMENT ID: HCV-150

SYSTEM: RC

DESCRIPTION: PORV BLOCKING VALVE

CLASS: 7

FUNCT: A

PATH: PC

ROOM: CONT

ELEVATION: 1047

LOCATION: 04WDD10NII

P and ID:

42107

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR DRWG. MFG. MODEL BOX STATUS KAP14AG AI-4C CA 74/150 41445 P297 MCC-3B1 SCS Mc/HCV-150 CR106 41445 G080 CA Mo/HCV-150 41445 G080 CR106 MCC-3B1

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Manual control switch in direct path. Since change of state necessary for this equipment, operator action is the only possibility;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT	DISPOSTION:	Not	Screened

REASON:

PREPARED BY:

J.K. Mathew

ew Ho

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

EQUIPMENT ID: HCV-151

SYSTEM: RC

DESCRIPTION:

PORV BLOCKING VALVE

CLASS: 7

FUNCT: A

PATH: PC

ROOM: CONT

ELEVATION: 1047

LOCATION: 21WCC08NII

P and ID:

42107

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR DRWG. MFG. MODEL BOX STATUS P297 KAP14AG GM-1 CA 74/151 41445 CR106 SCS Mc/HCV-151 41445 G080 MCC-4A1 Mo/HCV-151 41445 G080 CR106 MCC-4A1 CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Manual control switch in direct path. Since change of state necessary for this equipment, operator action is the only possibility;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Not Screened			
REASON:				
PREPARED BY:	J.K. Mathew OKUB	DATE:	9/8/95	
VEDIETED DV.	D.E. Mahaffay	Po 1 mm	0/0/05	

EQUIPMENT ID: HCV-238

SYSTEM: CH

DESCRIPTION: LOOP CHARGING VALVE

CLASS: 7

FUNCT: P

PATH: INV,R,P

ROOM: CONT

ELEVATION: 999

LOCATION: 06WBB25NII

P and ID:

94/238

55158

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

24368

MFG. G080

MODEL CR120A26241

BOX AC-DC-2 STATUS

SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seal-in involved, therefore 94/238 must be seismically screened;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew QO	DATE:	9/8/95	
VEDIETED DV.	D.E. Mahaffau		010105	

EQUIPMENT ID: HCV-239

SYSTEM: CH

DESCRIPTION: LOOP CHARGING VALVE

CLASS: 7

FUNCT: P

PATH: INV,R,P

ROOM: CONT

ELEVATION: 1000

LOCATION: 24WCC-24NIII

P and ID:

55158 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG.

MODEL

BOX

STATUS

43D/AI-185

12517

LOR

AI-185

SCS

94/239

24369

E155 G080

CR120A26241

AC-DC-2

SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seal-in involved, therefore 94/239 must be seismically screened;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Cre	DATE:	9/8/95	
VERIFIED BY:	R F Mehaffey	DATE	0/8/05	

EQUIPMENT ID: HCV-240

SYSTEM: CH

DESCRIPTION: CVCS TO SPRAY LINE ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: PC,R,P

ROOM: CONT

ELEVATION: 1045

LOCATION: 14WDD06NII

P and ID:

55158 POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
3A1/AI-185	12517	G080	CR2811A217K	AI-185	CA
43A/AI-185	12517	E155	LOR	AI-185	SCS
43C/Ai-185	12517	E155	LOR	AI-185	SCS
94/240	43398	G080	CR120A26241	AC-DC-2	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Change of state is desired for this equipment, but operator action is the only possibility;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Hile	DATE:	9/8/95	
VERIFIED RV.	R.F. Mehaffey C. Ferl	DATE	9/8/95	

EQUIPMENT ID: HCV-247

SYSTEM: CH

DESCRIPTION:

LOOP CHARGING SOLENOID CONTROL VALVE

CLASS: 7

FUNCT: P

FATH: INV,R,P

ROOM: CONT

ELEVATION: 1002

LOCATION: 07WBB26NII

P and ID:

55158 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR

MFG.

MODEL

BOX

STATUS

94/247 SCB-247 37607 37607

DRWG.

G080 V030 CR120BD003241 S1140-23-10 CB-1,2,3 HCV-247 SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seal-in involved, therefore 94/247 must be seismically screened:

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew OD DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey 377/2 DATE: 9/8/95

EQUIPMENT ID: HCV-248

SYSTEM: CH

DESCRIPTION: LOOP CHARGING SOLENOID CONTROL VALVE

CLASS: 7

FUNCT: P

PATH: INV,R,P

ROOM: CONT

ELEVATION: 1000

LOCATION: 16WCC09NII

P and ID:

55158

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
3A1/A1-185	12517	G080	CR2811A217K	AI-185	CA
43A/AI-185	12517	E155	LOR	AI-185	SCS
43C/AI-185	12517	E155	LOR	AI-185	SCS
94/248	37607	G080	CR120BD3241	CB-1,2,3	SCS
SCB-248	37607	V030	S1140-23-10	HCV-248	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seal-in involved, therefore 94/248 must be seismically screened;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-249

SYSTEM: CH

DESCRIPTION: CVCS TO SPRAY LINE ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: PC,R,P

ROOM: CONT

ELEVATION: 1045

LOCATION: 18WDD12NII

P and ID:

55158

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
3A2/AI-185	12517	G080	CR2811A217G	AI-185	CA
43C/AI-185	12517	E155	LOR	AI-185	SCS
94/249	37607	G080	CR120BD003241	CB-1,2,3	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Change of state is desired for this equipment, but operator action is the only possibility;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2504A

SYSTEM: SL-PRI

DESCRIPTION: RC SAMPLE LINE CONTAINMENT ISOL VALVE

CLASS: 7

FUNCT: P

PATH: INV

ROOM: CONT

ELEVATION: 1018

LOCATION: 6W'EE-0N'IV

P and ID:

10442

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62A/CIAS	40247	A109	E7022PH001	AI-43A	CA
742A-9	41564	G080	12HFA151A2F	AI-43A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	A1-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
36B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
66B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
66B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
66B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94/2504A	41692	G080	CR120A	AI-107	CA
94A/CIAS	40247	A109	EGPD001	AI-43A	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
3/PiA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
Z/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	808
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew QC	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-2506A SYSTEM: SL-PRI

DESCRIPTION: SG RC-2A SAMPLE CONTAINMENT ISOL VALVE

CLASS: 7

FUNCT: P

PATH: INV

ROOM: CONT

ELEVATION: 1016

LOCATION: 16WBB-17NII

P and ID:

10442

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
142A-9	41564	G080	12HFA151A2F	AI-43A	SCS
6A/CIAS	9806	G080	12HEA61C238X2	Al-30A(ESF)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
68/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
661/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
4/2506A	41692	G080	CR120A	AI-107	CA
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PC-742-I	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened		
REASON:			
PREPARED BY:	J.K. Mathew Oll	DATE:	9/8/95
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95

EQUIPMENT ID: HCV-2507A

SYSTEM: SL-PRI

DESCRIPTION: SG RC-2B SAMPLE CONTAINMENT ISOL VALVE

CLASS: 7

FUNCT: P

PATH: INV

ROOM: CONT

ELEVATION: 1018

LOCATION: 27WBB-35NIII

P and ID:

10442

POWER: NA

NORMAL STATE: C

DESIRED STATE: C

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-9	41564	G080	12HFA151A2F	AI-43A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G680	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94/2507A	41692	G080	CR120A	AI-107	CA
A/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
O/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew AKM	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-257

SYSTEM: CH

DESCRIPTION: B.A.S.T. CH-11B; RECIRC VALVE

CLASS: 7

FUNCT: P

PATH: RC

ROOM: 26

ELEVATION: 1014

LOCATION: 12W'T-8N'6E

P and ID:

10478 POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	Al-30B(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	Al-30A(ESF)	SCS
86B/CPHS	9316	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	981	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94/257	12286	G080	CR120A26241	CB-4	CA
A/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/94-1/SIAS	43409	G080	12HFA51A42H	CB-4 AUX	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	C9-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Albo	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-258 SYSTEM: CH

DESCRIPTION: BAST OUTLET ISOLATION VALVE

CLASS: 7 FUNCT: A

PATH: INV,R,P

LOCATION: 12WT6N6E

R M: 26 ELEVATION: 1010 F ID: 10478 POWER: NA

RMAL STATE: *C* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
74/HCV-258	41231	\$440	219BBXP	MCC-4A2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PFLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	Al-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	Al-30B(ESF)	SCS
36B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
1/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
VPC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
3/94-1/SIAS	43409	G080	12HFA51A42H	CB-4 AUX	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
9/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
MPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
7PIA-102Y	9829	S185	9223-30-E	CB-1,2 3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
Ac/HCV-258	41231	G080	CR106	MCC-4A2	CA
Mo/HCV-258	41231	G080	CR106	MCC-4A2	CA
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew QLM	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-264

SYSTEM: CH

DESCRIPTION: B.A.S.T. CH-11A; RECIRC VALVE

CLASS: 7

FUNCT: P

PATH: RC

ROOM: 26

ELEVATION: 1011 LOCATION: 30E'U-9N'6E

P and ID:

10478 POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	Al-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94/264	12286	G080	CR120A26241	CB-4	CA
A/94-1/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-I	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew O	DATE:	9/8/95	
VEDIETED BY:	R F Mehaffey	DATE	0/8/05	

EQUIPMENT ID: HCV-265

SYSTEM: CH

DESCRIPTION: BAST OUTLET ISOLATION VALVE

CLASS: 7

FUNCT: A

PATH: INV,R,P

ROOM: 26

ELEVATION: 1010

LOCATION: 30EU7N6E

P and ID:

10478 **POWER:** NA

NORMAL STATE: *C*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
74/HCV-265	41231	S440	219BBXP	MCC-3C2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C241 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
S6AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
C6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
A/94-1/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
3/94-2/SIAS	43409	G080	12HFA151A2H	CB-4 AUX	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	C 080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
Mc/HCV-265	41231	G080	CR106	MCC-3C2	CA
Mo/HCV-265	41231	G080	CR106	MCC-3C2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OKA	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

DATE:

EQUIPMENT ID: HCV-2805B

SYSTEM: AC-RW

DESCRIPTION: R.W. AC-12B; BACKWASH CONTROL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 0995

LOCATION: 3E'CC-5S'105

P and ID:

10454

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
m/AC-12B	43125	E020	CYCLE FLEX	AC-12B CTRL PANEL	CA
m/AC-12B	43125	E020	CYCLE FLEX	AC-12B CTRL PANEL	CA
m/AC-12B	43125	G080	CR106	AC-12B CTRL PANEL	CA
M/AC-12B	43125	G080	CR106	MCC-4C4	CA
M/AC-12B	43125	E920	CYCLE FLEX	MCC-4C4	CA
M/AC-12B	43125	E020	CYCLE FLEX	MCC-4C4	CA
m/AC-12B	43125	G080	CR106	AC-12B CTRL PANEL	CA
M/AC-12B	43125	G080	CR106	MCC-4C4	CA
TR/AC-12B	43125	C360	PMT	AC-12B CTRL PANEL	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment is not required to operate until after the earthquake. Spurious actuation will have no affect on the safe shutdown.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew 400	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2861

SYSTEM: AC-RW

DESCRIPTION: R.W. SUPPLY TO WATERPLANT; ISOL VALVE

CLASS: 7

FUNCT: P

PATH: AUX/RW

ROOM: 109

ELEVATION: 1007

LOCATION: 1W'SA-24N'7

P and ID:

10454

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR DRWG.

MFG.

MODEL

BOX

STATUS

94/2861

42521

Cr080

CR120A26241

AI-30A(ESF)

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

Di

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew QCM	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2874A

SYSTY 1: AC-RW

DESCRIPTION:

R.W. PUMPS DISCH HEADER ISOL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1001

LOCATION: 6E'CC-4S'103

P and ID:

94/2874A

10454

12597

CR120A26241

AC-DC-2

STATUS SCS

SCS

POWER: NA

G080

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. MFG. MODEL BOX CR120A26241 AC-DC-2 94/2874A 12597 G080

H-182

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew CHCM	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2874B

SYSTEM: AC-RW

DESCRIPTION: R.W. PUMPS DISCH HEADER ISOL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1002

LOCATION: 6E'CC-4N'103

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG. MODEL

BOX

STATUS

94/2874B

12597

G080 CR120A26241 AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Que	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2875A

SYSTEM: AC-RW

DESCRIPTION:

R.W. PUMPS DISCH HEADER ISOL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1001

LOCATION: 6E'CC-7N'103

P and ID:

POWER: NA 10454

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG.

G080

MODEL

BOX

STATUS

94/2875A

12597

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OKO	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-2875B

SYSTEM: AC-RW

DESCRIPTION: R.W. PUMPS DISCH HEADER ISOL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1001

LOCATION: 6E'CC-8S'104

P and ID:

10454 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG.

MODEL

BOX

STATUS

94/2875B

12597

G080 CR120A26241 AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew O	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2876A

SYSTEM: AC-RW

DESCRIPTION:

R.W. PUMPS DISCH HEADER ISOL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1001

LOCATION: 6E'CC-4S'104

P and ID:

94/2876A

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR

DRWG. 12597

MFG. G080 MODEL CR120A26241 BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened du.ing review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Q(V)	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2876B

SYSTEM: AC-RW

DESCRIPTION:

R.W. PUMPS DISCH HEADER ISOL VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: INTK

ELEVATION: 1001

G080

LOCATION: 12WBB-4N104

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR

DRWG.

MFG. MODEL

BOX

STATUS

94/2876B

12597

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2877A

SYSTEM: AC-RW

DESCRIPTION:

RW HEADER CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 993

LOCATION: 13ED12S6D

P and ID:

94/2877A

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. MFG.

DRWG. 41672 MFG. G080 MODEL CR120A26241 BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2877B

SYSTEM: AC-RW

DESCRIPTION:

RW HEADER CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 993

LOCATION: 13ED08S6D

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. 94/2877B

41672

MFG. G080

MODEL CR120A26241 BOX

STATUS

SCS

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2878A

SYSTEM: AC-RW

DESCRIPTION:

RW HEADER CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 993

LOCATION: 13ED04S6D

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR

DRWG. MFG. MODEL G080

BOX

STATUS

94/2878A

41672

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Q()	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-2878B

SYSTEM: AC-RW

DESCRIPTION: RW HEADER CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 993

LOCATION: 13ED03S6D

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. MFG.

G080

MODEL

BOX

STATUS

94/2878B

41672

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNK - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2879A

SYSTEM: AC-RW

DESCRIPTION:

RW HEADER CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 993

LOCATION: 13ED04N6D

P and ID:

94/2879A

10454 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. MFG.

DRWG. 41672 MFG. G080 MODEL CR120A26241 BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey GTYL DATE: 9/8/95

EQUIPMENT ID: HCV-2879B

SYSTEM: AC-RW

DESCRIPTION:

RW HEADER CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 993

LOCATION: 13ED06N6D

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG. G080

MODEL

BOX

STATUS

SCS

94/28798

41672

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

EV

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2880A

SYSTEM: AC-RW

DESCRIPTION:

AC-1A RW INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

RCOM: 18

ELEVATION: 994

LOCATION: 13ED06S6D

Pand ID:

10454

POWER: NA

NGRMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG. MODEL

G080

BOX

STATUS

94/2880A

41614

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey Algum DATE: 9/8/95

EQUIPMENT ID: HCV-2880B

SYSTEM: AC-RW

DESCRIPTION: AC-1A RW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 4

ELEVATION: 991

LOCATION: 07WD04N5B

P and ID:

94/2880B

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. MFG.

41614

G080

MODEL CR120A26241 BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2881A

SYSTEM: AC-RW

DESCRIPTION:

AC-1B RW INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 994

LOCATION: 13ED01N6D

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG. MFG. 94/2881A

41614

G080

MODEL CR120A26241 BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY: J.K. Mathew Company DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2881B

SYSTEM: AC-RW

DESCRIPTION:

AC-1B RW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 4

ELEVATION: 1003

LOCATION: 07WD04N5B

P and ID:

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR

DRWG. MFG. MODEL G080

BOX

STATUS

94/2881B

41614

CR120A26241

AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	POSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Com	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

SYSTEM: AC-RW **EQUIPMENT ID:** HCV-2882A

DESCRIPTION: AC-IC RW INLET VALVE

CLASS: 7

PATH: AUX/RW FUNCT: A

ROOM: 18 ELEVATION: 994 LOCATION: 08ED09N4A

P and ID: POWER: NA 10454

DESIRED STATE: *O*

NORMAL STATE: *O*

STATUS CONTACT PAIR DRWG. MFG. MODEL BOX

AC-DC-2 SCS G080 CR120A26241 94/2882A 41614

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew O(v)	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-2882B

SYSTEM: AC-RW

DESCRIPTION: AC-IC RW OUTLET VALVE

CLASS: 7

FUNCT: A

PATK: AUX/RW

ROOM: 18

ELEVATION: 999

LOCATION: 04ED09N5B

P and ID:

94/2882B

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

41614

MFG. G080

MODEL CR120A26241

BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-2883A

SYSTEM: AC-RW

DESCRIPTION:

AC-ID RW INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 994

LOCATION: 08ED07S7A

P and ID:

94/2883A

10454

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR DRWG.

DRWG. 41614 MFG. G080

MODEL CR120AD4041AA BOX AC-DC-2 STATUS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED RV.	R.F. Mehaffey	DATE.	0/8/05	

EQUIPMENT ID: HCV-2883B

SYSTEM: AC-RW

NORMAL STATE: *O*

DESCRIPTION: AC-1D RW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/RW

ROOM: 18

ELEVATION: 999

LOCATION: 04ED16S6D

P and ID:

10454

POWER: NA

DESIRED STATE: *O*

CONTACT PAIR DRWG.

MFG.

MODEL

BOX

STATUS

94/2883B

41614

G080 CR120A26241 AC-DC-2

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened		
REASON:			
PREPARED BY:	J.K. Mathew (M)	DATE:	9/8/95
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95

EQUIPMENT ID: HCV-2898A SYSTEM: AC-CCW

DESCRIPTION: CONTROL ROOM HVAC ISOLATION

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 81 ELEVATION: 1037 LOCATION: 7WJ14N6

P and ID: 10440 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	AI-106B *	SCS
12/46A	21846	G080	CR120B0D0422	AI-224A	SCS
12X/VA46A	21847	G080	CR120B04022	AI-106A	SCS
-1/VA46A	21847	G080	CR120B0D0422	AI-106A	SCS
-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
VA46A	21847	G080	CR120B04022	AI-106A	SCS
6A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/CRHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/CSAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/SIAS	9806	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
6A/VIAS	9806	G080	12HEA61C239X2	AI-30A(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/CRHS	9807	G080	12HEA61C244X2	AI-30A(ESF)	SCS
6B1/CSAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/SIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
6BI/VIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
4-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	SCS
4-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	SCS
4-1/6288A	21847	G080	CR120B04022	AI-106A	SCS
4-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
4-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/VA46A	21847	G080	CR120B04022	AI-106A	SCS
4-2/6288B	21847	G080	CR120B04022	A1-106B	SCS
4-2/VA46A	21847	G080	CR120B04022	AI-106A	SCS
4-25/FD	9828	G080	CR120A26941	AI-54B	SCS
4-25X/FD	39723	P297	KUP5D1524	AI-54B	CA
4/LS2898	21846	G080	CR120B04022	AI-106A	CA
4/VA46A	21847	G080	CR120B04022	AI-106A	SCS
4A/PE-5A	41671	G080	CR120A26241	AC-DC-2	CA
4AXI/VIAS	21847	G080	CR120B0D0422	AI-106A	SCS
4AX2/VIAS	21847	G080	CR120B04022	AI-106A	CA
/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	SCS
PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PIA-102Y	9829	S185	9223-30-E		
/PIA-102Y-1	9829	G080	12HFA151A9H	CB-1,2,3	CA
/PC-742-1				AC-DC-1	SCS
/PIA-102Y	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS

C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
LS-2898	21846	F132	8-66	LS-2898	CA
POX-5	39723	P435	XL-3	AI-56	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
YIS-6287A	21847	1133	AG3100-9422	AI-34	CA
YIS-6287B	21847	1133	AG3100-9421	AI-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

EQUIPMENT DICTORDON ON C

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter acceptable in circuit because of absence of seal-in function;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON:	OS HON: Screened			
PREPARED BY:	J.K. Mathew Co	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

PATH: AUX/CCW

EQUIPMENT ID: HCV-2898B SYSTEM: AC-CCW

DESCRIPTION: CONTROL ROOM HVAC ISOLATION

CLASS: 7 FUNCT: A

ROOM: 81 ELEVATION: 1037 LOCATION: 9WJ15N6

P and ID: 10440 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	AI-106B	SCS
42/46A	21846	G080	CR120B0D0422	AI-224A	SCS
42X/VA46A	21847	G080	CR120B04022	AI-106A	SCS
5-1/VA46A	21847	G080	CR120B0D0422	AI-106A	SCS
5-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
5/VA46A	21847	G080	CR120B04022	AI-106A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/VIAS	9806	G080	12HEA61C239X2	AI-30A(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/VIAS	9807	G080	12HEA61C239 or X2	AI-30A(E3F)	SCS
94-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	SCS
94-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	SCS
94-1/6288A	21847	G080	CR120B04022	AI-106A	SCS
94-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/VA46A	21847	G080	CR120B04022	AI-106A	SCS
94-2/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-2/VA46A	21847	G080	CR120B04022	AI-106A	SCS
94-25/FD	9828	G080	CR120A26941	AI-54B	SCS
94-25X/FD	39723	P297	KUP5D1524	AI-54B	CA
94/LS2898	21846	G080	CR120B04022	Al-106A	CA
94/VA46A	21847	G080	CR120B04022	AI-106A	SCS
94A/PE-5A	41671	G080	CR120A26241	AC-DC-2	CA
94AX1/VIAS	21847	G080	CR120B0D0422	AI-106A	SCS
A/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	SCS
LS-2898	21846	F132	8-66	LS-2898	CA
POX-5	39723	P435	XL-3	AI-56	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
YIS-6287A	21847	1133	AG3100-9422	Al-34	CA
YIS-6287B	21847	1133	AG3100-9421	AI-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter acceptable in circuit because of absence of seal-in function;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VEDIETED BY.	R F Mahaffay	D. comp	0/9/05	

EQUIPMENT ID: HCV-2899A SYSTEM: AC-CCW

DESCRIPTION: CONTROL ROOM HVAC ISOLATION

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 81 ELEVATION: 1037 LOCATION: 6WG14N6

P and ID: 10440 POWER: NA

NORMAL STATE: "O" DESIRED STATE: "O"

33X/292	CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
42/46B	33X/291	43437	G080	CR120B04022	AI-106A	SCS
22X/VA46B	33X/292	43437	G080	CR120B04022	AI-106B	SCS
5-I/VA466	42/46B	21846	G080	CR120B0D0422	AI-224A	SCS
S-I/VA46B 21847 G080 CR120B04022 Ai-106B SCS SVYA46B 21847 G080 CP120B04022 AI-106B SCS SCS S6A I/CRIS 9817 G080 12HEA61C237 or X2 AI-30B(ESF) SCS S6A I/CRIS 9817 G080 12HEA61C234 or X2 AI-30B(ESF) SCS S6A I/CRIS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A I/CRIS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A I/CRIS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A I/CRIS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A I/SIAS 9817 G080 12HEA61C249 or X2 AI-30B(ESF) SCS S6A I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C242 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B I/SIAS S6B I	42X/VA46B	21847	G080	CR120B0D0422	AI-224B	SCS
SVA A6B 21847 G080 CP120B04022 AI-106B SCS S6A ICTAS 9817 G080 12HEA61C237 or X2 AI-30B(ESF) SCS S6A ICTAS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A ICCAS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A ICCAS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A ICCAS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A ICCAS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A ICCAS 9817 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6A ICCAS 9816 G080 12HEA61C242 or X2 AI-30B(ESF) SCS S6B ICAS 9816 G080 12HEA61C237 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C247 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C247 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C237 or X7 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B ICCAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS S6B ICCAS SCS ICCAS ICCAS SCS ICCAS ICCAS ICCAS ICCAS ICCAS ICCAS IC	5-1/VA46A	21847	G080	CR120B0D0422	A1-106A	SCS
B6A CIAS 9817 G080 12HEA6 C237 or X2 Al-30B (ESF) SCS B6A ICPHS 9817 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6A ICRHS 9817 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6A ICRHS 9817 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6A ICSAS 9817 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6A ICSAS 9817 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6A ICSAS 9817 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6A ICSAS 9816 G080 12HEA6 C239 or X2 Al-30B (ESF) SCS B6B CAS 9816 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6B CAS 9816 G080 12HEA6 C234 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C244 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C242 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C242 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C242 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C239 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C239 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C239 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 12HEA6 C239 or X2 Al-30B (ESF) SCS B6B CBAS 9816 G080 CR 120B D0422 Al-106A SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106A SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422 Al-106B SCS B6B CBAS 21847 G080 CR 120B D0422	5-1/VA46B	21847	G080	CR120B04022	Ai-106B	SCS
166A CPHS	5/VA46B	21847	G080	CF120B04022	AI-106B	SCS
GAI/CRHS	6A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
	6A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
GAI/PPLS	6A1/CRHS	9817	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
10 12 12 12 12 13 13 14 14 15 15 14 14 15 15	6A1/CSAS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
661/VIAS 9817 G080 12HEA61C239X2 AI-30B(ESF) SCS 6B/CIAS 9816 G080 12HEA61C237 or X2 AI-30P(ESF) SCS 6B/CPHS 9816 G080 12HEA61C234 or X2 AI-30P(ESF) SCS 6B/CPHS 9816 G080 12HEA61C244 or X2 AI-30B(ESF) SCS 6B/CPHS 9816 G080 12HEA61C244X2 AI-30B(ESF) SCS 6B/CSAS 9816 G080 12HEA61C244X2 AI-30B(ESF) SCS 6B/CSAS 9816 G080 12HEA61C237 or X2 AI-30B(ESF) SCS 6B/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS 4-1/6286A-6287A 21847 G080 CR120B0D0422 AI-106A SCS 4-1/6288A 21847 G080 CR120B0D0422 AI-106B SCS 4-1/6288A 21847 G080 CR120B0D0422 AI-106B SCS 4-1/6288A 21847 G080 CR120B04022 AI-106B SCS 4-1/6288B 21847 G080 CR120B04022 AI-106B SCS 4-1/RM-050/061 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-050/061 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-050/061 9799 G080 12HFA151A9H AI-33A SCS 4-1/VA46B 21847 G080 CR120B04022 AI-106B SCS 4-2/6288A 21847 G080 CR120B04022 AI-106B SCS 4-2/6289A 21847 G080 CR120B04022 AI-106B SCS 4-2/6289A 21847 G080 CR120B04022 AI-106B SCS 4-2/6298A 21847 G080 CR120B04022 AI-106B SCS 4-2/62944 AI-64B SCS 4-2/6298A 21847 G080 CR120B04022 AI-106B SCS 4-2/62944 AI-60B SCS 4-2/62944 AI-60	6A1/PPLS	9817	G080	12HEA61C244 or X2	AJ-30B(ESF)	SCS
SCS	6A1/SIAS	2817	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
12 12 12 12 13 14 14 15 15 15 15 15 15	6A1/VIAS	9617	G080	12HEA61C239X2	AI-30B(ESF)	SCS
16B/CRHS	6B/CIAS	9816	G080	12HEA61C237 or X2	Al-30P(ESF)	SCS
Sebstars 9816 G080 12HEA61C244X2 Al-30B(ESF) SCS Sebstars 9816 G080 12HEA61C242 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 12HEA61C237 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 12HEA61C239 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 12HEA61C239 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 12HEA61C239 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 C12HEA61C239 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 C12HEA61C239 or X2 Al-30B(ESF) SCS Sebstars 9816 G080 CR120B0D0422 Al-106A SCS Sebstars 21847 G080 CR120B0D0422 Al-106B SCS Sebstars 21847 G080 CR120B0D0422 Al-106B SCS Sebstars 21847 G080 CR120B04022 Al-106B SCS Sebstars 4-1/RM-050'061 9799 G080 C12HFA151A9H Al-33A SCS Sebstars 4-1/RM-050'061 9799 G080 C12HFA151A9H Al-33A SCS Sebstars 4-1/RM-060 9799 G080 C12HFA151A9H Al-33A SCS Sebstars 21847 G080 CR120B04022 Al-106B SCS Sebstars 218	6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30E (ESF)	SCS
12 12 12 12 12 12 12 12		9816	G080	12HEA61C244X2	AI-30B(ESF)	SCS
68/PPLS 9816 G080 124/EA61C237 or X2 A1-30B(ESF) SCS 6B/SIAS 9816 G080 124/EA61C239 or X2 A1-30B(ESF) SCS 6B/SIAS 9816 G080 124/EA61C239 or X2 A1-30B(ESF) SCS 44-16286A-6287A 21847 G080 CR120B0D0422 A1-106A SCS 44-16286B-6287B 21847 G080 CR120B0D422 A1-106B SCS 44-16288B 21847 G080 CR120B00422 A1-106B SCS 44-16288B 21847 G080 CR120B04022 A1-106B SCS 44-1678M-050/061 9799 G080 124/FA151A9H A1-33A SCS 44-1/RM-051/062 9799 G080 124/FA151A9H A1-33A SCS 44-1/RM-060 9799 G080 124/FA151A9H A1-33A SCS 44-1/VA46B 21847 G080 CR120B04022 A1-106B SCS 44-2/6288A 21847 G080 CR120B04022 A1-106B SCS 44-2/6288A 21847 G080 CR120B04022 A1-106B SCS 44-2/628BA 21847 G080 CR120B04022 A1-106B SCS 44-2/5/FD 9828 G080 CR120B04022 A1-106B SCS 44-2/5/FD 39723 P297 KUP5D1524 A1-54B CA 4/LS2899 21846 G080 CR120B04022 A1-106B CA 4/LS2899 21846 G080 CR120B04022 A1-106B SCS 44/VA46B 21847 G080 CR120B04022 A1-106B SCS 44/VA46B S1847 G080 CR120B04022 A1-106B SCS 44/VA40B S1847 G080 CR120B04022 A1-106B SCS	6B/CSAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
68/SIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS 68/VIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS 4-I/6286A-6287A 21847 G080 CR120B0D0422 AI-106A SCS 4-I/6288A 21847 G080 CR120B0D0422 AI-106B SCS 4-I/6288B 21847 G080 CR120B04022 AI-106B SCS 4-I/RM-050/061 9799 G080 CR120B04022 AI-106B SCS 4-I/RM-051/062 9799 G080 12HFA151A9H AI-33A SCS 4-I/RM-060 9799 G080 12HFA151A9H AI-33A SCS 4-I/RM-060 9799 G080 CR120B04022 AI-106B SCS 4-I/WA46B 21847 G080 CR120B04022 AI-106B SCS 4-25/FD 9828 G080 CR120B04022 AI-106B SCS 4-25/FD 39723 P297 KUP5D1524 AI-54B SCS 4-25/FD <td></td> <td>9816</td> <td>G080</td> <td>12NEA61C237 or X2</td> <td>A1-30B(ESF)</td> <td>SCS</td>		9816	G080	12NEA61C237 or X2	A1-30B(ESF)	SCS
66B/VIAS 9816 G080 12HEA61C239 or X2 AI-30B(ESF) SCS 4-1/6286A-6287A 21847 G080 CR120B0D0422 AI-106A SCS 4-1/6286B-6287B 21847 G080 CR120B0D0422 AI-106B SCS 4-1/6288A 21847 G080 CR120B04022 AI-106B SCS 4-1/6288B 21847 G080 CR120B04022 AI-106B SCS 4-1/RM-050/061 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-051/062 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-060 9799 G080 CR120B04022 AI-106B SCS 4-1/WA46B 21847 G080 CR120B04022 AI-106B SCS 4-2628BA 21847 G080 CR12(B04022 AI-106B SCS 4-25/FD 9828 G080 CR12(B04022 AI-106B SCS 4-25/FD 9828 G080 CR120B04022 AI-106B SCS 44/VA46B </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>SCS</td>						SCS
4-1/6286A-6287A 21847 G080 CR120B0D0422 AI-106A SCS 4-1/6286B-6287B 21847 G080 CR120B0D0422 AI-106B SCS 4-1/6288A 21847 G080 CR120B04022 AI-106A SCS 4-1/6288B 21847 G080 CR120B04022 AI-106B SCS 4-1/6288B 21847 G080 CR120B04022 AI-106B SCS 4-1/6288B 21847 G080 CR120B04022 AI-106B SCS 4-1/6288B 21847 G080 I2HFA151A9H AI-33A SCS 4-1/6480 9799 G080 I2HFA151A9H AI-33A SCS 4-1/646B 21847 G080 CR120B04022 AI-106B SCS 4-1/646B 21847 G080 CR120B04022 AI-106B SCS 4-1/646B 21847 G080 CR120B04022 AI-106A SCS 4-2/6288A 21847 G080 CR120B04022 AI-106A SCS 4-2/6288A 21847 G080 CR120B04022 AI-106B SCS 4-2/5/FD 9828 G080 CR120B04022 AI-106B SCS 4-2/5/FD 9828 G080 CR120B04022 AI-106B SCS 4-2/5/FD 39723 P297 KUP5D1524 AI-54B SCS 4-2/5/FD 39723 P297 KUP5D1524 AI-54B CA 4/646B 21847 G080 CR120B04022 AI-106B SCS 4-1/646B 21847 G080 CR120B04022 AI-106B SCS 4-1/646B 21847 G080 CR120B04022 AI-106B SCS 4-1/65/FD 39723 P297 KUP5D1524 AI-54B SCS 4-1/65/FD 39723 P297 KUP5D1524 AI-54B SCS 4-1/66B SCS 4-1/67/FD 39723 P297 KUP5D1524 AI-54B SCS 4-1/67/FD 39723 P297 KUP5D1524 AI-106B SCS 4-1/67/FD 39723 P297 KUP5D1524	6B/VIAS	9816	G080	12HEA61C239 or X2		SCS
4-1/6286B-6287B 21847 G080 CR120B0D0422 Al-106B SCS 4-1/6288A 21847 G080 CR120B04022 Al-106A SCS 4-1/6288B 21847 G080 CR120B04022 Al-106B SCS 4-1/RM-050/061 9799 G080 12HFA151A9H Al-33A SCS 4-1/RM-051/062 9799 G080 12HFA151A9H Al-33A SCS 4-1/RM-060 9799 G080 12HFA151A9H Al-33A SCS 4-1/RM-060 9799 G080 12HFA151A9H Al-33A SCS 4-1/RM-060 9799 G080 CR120B04022 Al-106B SCS 4-1/C48BA 21847 G080 CR120B04022 Al-106B SCS 4-2/C48BA 21847 G080 CR120B04022 Al-106B SCS 4-2/VA46B 21847 G080 CR120B04022 Al-106B SCS 4-25/FD 9828 G080 CR12(B04)/22 Al-106B SCS 4-25/FD 9828 G080 CR120B04022 Al-106B SCS 4-25X/FD 39723 P297 KUP5D1524 Al-54B CA 4/LS2899 21846 G080 CR120B04022 Al-106B CA 4/VA46B 21847 G080 CR120B04022 Al-106B CA 4/VA46B 21847 G080 CR120B04022 Al-106B SCS 4B/PE-5A 41671 G080 CR120B04022 Al-106B SCS 4B/PE-5A 41			G080	CR120B0D0422		SCS
#1/6288A	4-1/6286B-6287B			CR120B0D0422		SCS
4-1/6288B 21847 G080 CR120B04022 AI-106B SCS 4-1/RM-050/061 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-051/062 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-060 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-060 9799 G080 CR120B04022 AI-106B SCS 4-2/6288A 21847 G080 CR120B04022 AI-106A SCS 4-2/VA46B 21847 G080 CR120B04022 AI-106A SCS 4-2/VA46B 21847 G080 CR120B04022 AI-106B SCS 4-25/FD 9828 G080 CR120B04022 AI-106B SCS 4-25/FD 39723 P297 KUP5D1524 AI-54B SCS 4-25X/FD 39723 P297 KUP5D1524 AI-54B CA 4/LS2899 21846 G080 CR120B04022 AI-106B CA 4/VA46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX1/VIAS 21847 G080 BAX1/VIAS 4I-56B G080 12HFA151A2H AI-44 SCS 4BX1/VIAS 4I-56B G080 12HFA151A2H AI-44 SCS 4BX1/VIAS 4I-56B G080 12HFA151A2H AI-44 SCS 4BX1/VIAS 4I-56B G0						SCS
4-1/RM-050/061 9799 G080 12HFA151A9H A1-33A SCS 4-1/RM-051/062 9799 G080 12HFA151A9H A1-33A SCS 4-1/RM-060 9799 G080 12HFA151A9H A1-33A SCS 4-1/VA46B 21847 G080 CR120B04022 A1-106B SCS 4-2/VA46B 21847 G080 CR120B04022 A1-106B SCS 4-25/FD 9828 G080 CR120B04022 A1-106B SCS 4-25X/FD 39723 P297 KUP5D1524 A1-54B CA 4/LS2899 21846 G080 CR120B04022 A1-106B CA 4/VA46B 21847 G080 CR120B04022 A1-106B CA 4/VA46B 21847 G080 CR120B04022 A1-106B CA 4/VA46B 21847 G080 CR120B04022 A1-106B SCS 4B/PE-5A 41671 G080 CR120B04022 A1-106B SCS 4BX1/VIAS 21847						
4-1/RM-051/062 9799 G080 12HFA151A9H AI-33A SCS 4-1/RM-060 9799 G080 12HFA151A9H AI-33A SCS 4-1/VA46B 21847 G080 CR120B04022 AI-106B SCS 4-2/6288A 21847 G080 CR120B04022 AI-106A SCS 4-2/VA46B 21847 G080 CR120B04022 AI-106B SCS 4-2/VA46B 21847 G080 CR12(B04)22 AI-106B SCS 4-25/FD 9828 G080 CR120, 26941 AI-54B SCS 4-25/FD 39723 P297 KUP5D1524 AI-54B CA 4/LS2899 21846 G080 CR120B04022 AI-106B CA 4/VA46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120B26241 AC-DC-2 CA 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS 4PIA-102Y 9829 G080 12HFA151A9H AC-DC-1 SCS 4P4-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS	4-1/RM-050/061		G080	12HFA151A9H	AI-33A	SCS
44-I/RM-060 9799 G080 12HFA151A9H A1-33A SCS 44-I/VA46B 21847 G080 CR120B04022 A1-106B SCS 4-2/6288A 21847 G080 CR120B04022 A1-106A SCS 4-2/VA46B 21847 G080 CR120B04022 A1-106B SCS 4-25/FD 9828 G080 CR120F26941 A1-54B SCS 4-25X/FD 39723 P297 KUP5D1524 A1-54B CA 4-25X/FD 39723 P297 KUP5D1524 A1-54B CA 4-25X/FD 39723 P297 KUP5D1524 A1-54B CA 4-25X/FD 39723 P297 KUP5D1524 A1-54B SCS 4-25X/FD 39723 P297 KUP5D1524 A1-54B SCS 4-25X/FD 39723 P297 KUP5D1524 A1-06B SCS 4-25X/FD 39723 P297 KUP5D1524 A1-06B SCS 4B/LS2899 21846 G080		9799				SCS
4-1/V A 46B 21847 G080 CR120B04022 Al-106B SCS 4-2/6288A 21847 G080 CR120B04022 Al-106A SCS 4-2/VA 46B 21847 G080 CR12(B04)22 Al-106B SCS 4-25/FD 9828 G080 CR120, 26941 Al-54B SCS 4-25X/FD 39723 P297 KUP5D1524 Al-54B CA 4/LS2899 21846 G080 CR120B04022 Al-106B CA 4/VA 46B 21847 G080 CR120B04022 Al-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 Al-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 Al-106B CA 4/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS 4/PA-102Y 9829 S185 9223-30-E CB-1,2,3 CA 4/PA-3/VIAS 41568 G080 12HFA151A2H Al-44 SCS 4/PC-742-2						
4-2/6288A 21847 G080 CR120B04022 AI-106A SCS 4-2/VA46B 21847 G080 CR12(B04)22 AI-106B SCS 4-25/FD 9828 G080 CR120, 26941 AI-54B SCS 4-25X/FD 39723 P297 KUP5D1524 AI-54B CA 4/LS2899 21846 G080 CR120B04022 AI-106B CA 4/VA46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BXI/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA 4/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS 4/PIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA 4/PIA-102Y-2 9829 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
4-2/V A 46B 21847 G080 CR12(B04)22 AI-106B SCS 4-25/FD 9828 G080 CR120; 26941 AI-54B SCS 4-25X/FD 39723 P297 KUP5D1524 AI-54B CA 4/LS2899 21846 G080 CR120B04022 AI-106B CA 4/V A 46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA 4/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS 4/PIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA 4/PIA-102Y-2 9829 G080 12HFA151A2H AI-44 SCS 4/PC-742-2 9841 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
4-25/FD 9828 G080 CR120, 26941 AI-54B SCS 4-25X/FD 39723 P297 KUP5D1524 AI-54B CA 4/LS2899 21846 G080 CR120B04022 AI-106B CA 4/VA46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS VPIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA VPIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS VP4-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
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4/LS2899 21846 G080 CR120B04022 AI-106B CA 4/VA46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BXI/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS VPIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA VPIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS VP4-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
4/VA46B 21847 G080 CR120B04022 AI-106B SCS 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS 4PIA-102Y 9829 G080 12HFA151A9H AC-DC-1 SCS 4PA-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS 4PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS VPIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA VPIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS VP4-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
4B/PE-5A 41671 G080 CR120A26241 AC-DC-2 CA 4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS VPIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA VPIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS VP4-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
4BX1/VIAS 21847 G080 CR120B04022 AI-106B SCS 4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS VPIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA VPIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS V94-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
4BX2/VIAS 21847 G080 CR120B04022 AI-106B CA /PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS /PIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA /PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS /94-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS /PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
/PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 A/PC-742-2 SCS /PIA-102Y 9829 S185 9223-30-E CB-1,2,3 CA /PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS /94-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS /PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
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/PIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS /94-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS /PC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
V94-3/VIAS 41568 G080 12HFA151A2H AI-44 SCS VPC-742-2 9841 S382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
VPC-742-2 9841 \$382 12N6BB4NXC1AJJTTX6 B/PC-742-2 SCS						
[12] [12] [13] [14] [15] [15] [15] [15] [15] [15] [15] [15						
7629 5165 9225-50-E CB-1,2,5 CA						
VPIA-102Y-2 9829 G080 12HFA151A9H AC-DC-1 SCS						

C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
LS-2899	21846	F132	8-66	LS-2899	CA
POX-5	39723	P435	XL-3	AI-56	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	A1-33B	SCS
YIS-6287A	21847	1133	AG3100-9422	Al-34	CA
YIS-6287B	21847	1133	AG3100-9421	AI-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter acceptable in circuit Ecause of absence of seal-in function;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew 41(1)	DATE:	9/8/95	and the second second second second
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-2899B SYSTEM: AC-CCW

DESCRIPTION: CONTROL ROOM HVAC ISOLATION

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 81 ELEVATION: 1037 LOCATION: 6WG15N6

P and ID: 10440 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	AI-106B	SCS
42/46B	21846	G080	CR120B0D0422	AI-224A	SCS
42X/VA46B	21847	G080	CR120B0D0422	AJ-106B	SCS
5-1/VA46A	21847	G080	CR120B0D0422	AJ-106A	SCS
5-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
5/VA46B	21847	G080	CR120B04022	AI-106B	SCS
86A1/CIAS	9817	Geno	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/VIAS	9817	G080	12HEA61C239X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/VIA \$	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
94-1/5286A-0287A	21847	G080	CR120B0D0422	AI-106A	SCS
94-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	SCS
94-1/6288A	21847	G080	CR120B04022	Al-106A	SCS
94-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94-2/6288A	21847	G080	CR120B04022	AI-106A	SCS
94-2/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94-25/FD	9828	G080	CR120A26941	AI-54B	SCS
94-25X/FD	39723	P297	KUP5D1524	AI-54B	CA
94/LS2899	21846	G080	CR120B04022	AI-106B	CA
94/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94B/PE-5A	41671	G080	CR120A26241	AC-DC-2	CA
94B/PE-5A	41671	G080	CR120A26241	AC-DC-2	CA
94BX1/VIAS	21847	G080	CR120B04022	AI-106B	SCS
B/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	SCS
LS-2899	21846	F132	8-66	LS-2899	CA
POX-5	39723	P435	XL-3	A1-56	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	A1-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
YIS-6287A	21847	1133	AG3100-9422	A1-34	CA
YIS-6287B	2:347	1133	AG3100-9421	AI-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter acceptable in circuit because of absence of seal-in function;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

EQUIPMENT ID: HCV-400A SYSTEM: AC-CCW

DESCRIPTION: VA-1A HX INLET VALVE

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 69 ELEVATION: 1027 LOCATION: 08WN06N6B

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62/400	41269	G080	CR2820B424AA41	AC-DC-2	CA
42A-3	41564	G080	12HFA151A2F	AI-43A	SCS
42B-3	41567	G080	12HFA151A2F	AI-43B	SCS
6/AI-43A	41564	G080	12HEA61C239 or X2	A1-43A	SCS
6/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
6A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6A1/CPHS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
6A1/PPLS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
6B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
4-1/400	41269	G080	CR120AD04041AA	AC-DC-2	CA
4-2/400	41269	G080	CR120A26241	AC-DC-2	CA
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
J/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
3/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
ZPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
VPC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
7PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
7PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C-416A	41269	G080	56-0330-AAACI	GM-2	CA
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

L'A - Chatter Acceptable- Relay Non-

Essential

SCS- Seismicalty Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-416A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screene; during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON:	OSTION: Screened		
PREPARED BY:	J.K. Mathew OK	DATE:	9/8/95
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95

EQUIPMENT ID: HCV-400B SYSTEM: AC-CCW

DESCRIPTION: VA-1A HX INLET VALVE

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 69 ELEVATION: 1030 LOCATION: 09EP08N6C

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
742B-4	41567	G080	12HFA151A2F	AI-43B '	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	Al-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
36B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESi)	SCS
B6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-3/400	41271	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
9/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S332	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
7PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
OVPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
OVETA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

AM

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

EQUIPMENT ID: HCV-400C SYSTEM: AC-CCW

DESCRIPTION: VA-1A HX OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69 P and ID: ELEVATION: 1027

LOCATION: 08WP03N6C

35367 **POWER:** NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62/400	41269	G080	CR2820B424AA41	AC-DC-2	CA
742A-3	41564	G080	12HFA151A2F	AI-43A	SCS
742B-3	41567	G080	12HFA151A2F	AI-43B	SCS
86/Ai-43A	41564	G080	12HEA61C239 or X2	Al-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
94-1/400	41269	G080	CR120AD04041AA	AC-DC-2	CA
94-2/400	41269	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1.2.3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PC-416A	41269	G080	56-0330-AAACI	GM-2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-416A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT	DISPOSTION:	Screened

REASON:

VERTIED BY:

PREPARED BY: J.K. Mathew

R.F. Mehaffey

DATE:

9/8/95

DATE:

9/8/95

PATH: AUX/CCW

EQUIPMENT ID: HCV-400D SYSTEM: AC-CCW

DESCRIPTION: VA-1A HX OUTLET VALVE

CLASS: 7 FUNCT: A

ROOM: 69 ELEVATION: 1031 LOCATION: 09WP10N6C

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
742B-4	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/A1-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A!/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS .	9816	GJ80	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	Al-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-3/400	41271	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-4	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	984i	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223 30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Home	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey (777)	DATE	9/8/95	

EDUIPMENT ID: HCV-401A SYSTEM: AC-CCW

RIPTION: VA-1B HX INLET VALVE

CLASS: 7 FUNCT: A

M: 69

FUNCT: A PATH: AUX/CCW
ELEVATION: 1027 LOCATION: 07EP03N6C

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62/401	41269	G080	CR2820B424AA41	AC-DC-2	CA
742A-3	41564	G080	12HFA151A2F	AI-43A *	SCS
742B-3	41567	G080	12HFA151A7	A1-43B	SCS
86/AI-43A	41564	€000	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
36A/CPHS	9806	G080	12HEA61C244 or X2	AJ-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
66A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
I6A I/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
66B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
4-1/401	41269	G080	CR120AD04041AA	AC-DC-2	CA
4-2/401	41269	G080	CR120AD04041AA	AC-DC-2	CA
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
VPC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	5382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VP1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C-417A	41269	G080	56-0330-AAAC1	GM-2	CA
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-!	CA
PLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

VERIFIED BY:

R.F. Mehaffey

1) Flow Switch FC-417A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

BEASON:	ON HON: Screen	ed			
REASON:					
PREPARED BY:	J.K. Mathew	Gice	DATE:	9/8/95	

DATE:

EQUIPMENT ID: HCV-401B SYSTEM: AC-CCW

DESCRIPTION: VA-1B HX INLET VALVE

CLASS: 7 FUNCT: A

PATH: AUX/CCW **ELEVATION: 1030** LOCATION: 07EP08N6C

35367 **POWER:** NA P and ID:

ROOM: 69

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
7428-4	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6A1/PPLS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	A!-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
36B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
04-3/401	41271	G080	CR120A2624!	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/FIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSITION: Screened	
REASON:	
DOWN OF A CONTRACTOR OF A	0/0/05

VERIFIED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey PATE: 9/8/95

SYSTEM: AC-CCW EQUIPMENT ID: HCV-401C

DESCRIPTION: VA-1B HX OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1027

LOCATION: 10WP5N6C

P and ID:

35367 POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62/401	41269	G080	CR2820B424AA41	AC-DC-2	CA
142A-3	41564	G080	12HFA151A2F	AI-43A	SCS
42B-3	41567	G080	12HFA151A2F	AI-43B	SCS
6/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
6/A1-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
6A/CIAS	9806	G080	12HEA61C238X2	Al-30A(ESF)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	A1-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
4-1/401	41269	G080	CR120AD64041AA	AC-DC-2	CA
4-2/401	41269	G080	CR120AD04041AA	AC-DC-2	CA
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-!	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A901	AC-DC-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4MXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C-417A	41269	G080	56-0330-AAAC1	GM-2	CA
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-417A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUITMENT DISPOSITON, SCIECTICA	
REASON:	

FOLIPMENT DISPOSTION: Screened

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: HCV-401D SYSTEM: AC-CCW

DESCRIPTION: VA-1B HX OUTLET VALVE

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 69 ELEVATION: 1031 LOCATION: 10WP12N6C

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
7428-4	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61 C238X2	AI-30A(EST)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6A1/CPHS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
66A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AJ-30B(ESF)	SCS
B6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
B6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
36B1/PPLS	9807	G080	12HEA61C244 or X2	Al-30A(ESF)	SCS
4-3/401	41271	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	5382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PfA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

PATH: AUX/CCW

EQUIPMENT ID: HCV-402A SYSTEM: AC-CCW

DESCRIPTION: CNTMT VA-8A COOLING COIL - CCW INLET VALVE

CLASS: 7 FUNCT: A

ROOM: 69 ELEVATION: 1027 LOCATION: 03EP03N6C

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	вох	STATUS
62/402	41269	G080	CR2820B424AA41	AC-DC-2	CA
742A-3	41564	G080	12HFA151A2F	AI-43A	SCS
742B-3	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-1/402	41269	G080	CR120AD04041AA	AC-DC-2	CA
94-2/402	41269	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
FC-418A	41269	G080	56-0330-AAACI	GM-2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

EQUIDMENT DISDOSTION, Command

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-418A has direct control over valve position;

2) Relays not associated with CIAS FSF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON:	OF TOTAL SCIENCE			
PREPARED BY:	J.K. Mathew Che	DATE:	9/8/95	
VERIFIED RV.	R.F. Mehaffey	DATE.	0/8/05	

EQUIPMENT ID: HCV-402B SYSTEM: AC-CCW

DESCRIPTION: CNTMT VA-8A COOLING COIL - CCW INLET VALVE CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 69 ELEVATION: 1030 LOCATION: 03EP08N6C

P and ID: 35367 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
742B-4	41567	G080	12HFA151A2F	AI-43B	SCS
86/AJ-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-3/402	41271	G080	CR120AD04041AA	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew Office	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-402C SYSTEM: AC-CCW

DESCRIPTION: CNTMT VA-8A COOLING COIL - CCW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1027

LOCATION: 06WP5N6C

P and ID:

35367

POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62/402	41269	G080	CR2820B424AA41	AC-DC-2	CA
742A-3	41564	G080	12HFA151A2F	AI-43A *	SCS
742B-3	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPKS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A.PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
36B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
B6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
14-1/402	41269	G080	CR120AD04041AA	AC-DC-2	CA
14-2/402	41269	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
N/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
7PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
Z/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
XPC-7#2-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C-418A	41269	G080	56-0330-AAACI	GM-2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-418A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	+ +
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-402D

SYSTEM: AC-CCW

DESCRIPTION: CNTMT VA-8A COOLING COIL - CCW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1031

LOCATION: 05WP10N6C

P and ID:

35367

POWER: NA

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
742B-4	41567	G080	12HFA151A2F	A1-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	A1-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	Al-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-3/402	41271	G080	CR120AD04041AA	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-I	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

- 3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

SYSTEM: AC-CCW **EQUIPMENT ID: HCV-403A**

DESCRIPTION: CNTMT VA-8B COOLING COIL - CCW INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1027

LOCATION: 0WP3N6C

P and ID:

35367 **POWER:** NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
52/403	41269	G080	CR2820B424AA41	AC-DC-2	CA
742A-3	41564	G080	12HFA151A2F	AI-43A	SCS
/42B-3	41567	G080	12HFA151A2F	AI-43B	SCS
6/A1-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
6/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
6A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/CIAS	9816	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	Al-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
4-1/403	41269	G080	CR120AD04041AA	AC-DC-2	CA
4-2/403	41269	G080	CR120A26241	AC-DC-2	CA
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
/P1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
7PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
7PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
7PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C-419A	41269	G080	56-0330-AAAC1	GM-2	CA
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-419A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPO	OSTION: Screened
-----------------	------------------

REASON:

PREPARED BY:

J.K. Mathew

THE

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

2000

DATE:

EQUIPMENT ID: HCV-403B

SYSTEM: AC-CCW

DESCRIPTION: CNTMT VA-8B COOLING COIL - CCW INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1030

LOCATION: 01EP08N6C

P and ID:

35367

POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
742B-4	41567	G080	12HFA151A2F	AI-43B *	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6A1/CPHS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
36A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
66B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
36B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-3/403	41271	G080	CR120AD04041AA	AC-DC-2	CA
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
N/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC! AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,4,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
OVPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT	DISPOSTION: Screened
REASON:	

PREPARED BY:

J.K. Mathew

HE

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

カナング

DATE:

EQUIPMENT ID: HCV-403C SYSTEM: AC-CCW

DESCRIPTION: CNTMT VA-8B COOLING COIL - CCW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1027

LOCATION: 02WP03N6C

P and ID:

35367 **POWER:** NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62/403	41269	G080	CR2820B424AA41	AC-DC-2	CA
742A-3	41564	G080	12HFA151A2F	Al-43A	SCS
742B-3	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AJ-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	Al-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	Al-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
B6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94-1/403	41269	G080	CR120AD04041AA	AC-DC-2	CA
94-2/403	41269	G080	CR120A26241	AC-DC-2	CA
A/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C-419A	41269	G080	56-0330-AAAC1	GM-2	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Flow Switch FC-419A has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

DATE:

9/8/95

VERIFIED BY: R.F. Mehaffey

DATE:

EQUIPMENT ID: HCV-403D

SYSTEM: AC-CCW

DESCRIPTION:

CNTMT VA-8B COOLING COIL - CCW OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 69

ELEVATION: 1031

LOCATION: 01WP08S7A

P and ID:

35367

POWER: NA

NORMAL STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-4	41564	G080	12HFA151A2F	AI-43A	SCS
742B-4	41567	G080	12HFA151A2F	AI-43B	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6A1/PPLS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
6B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	CS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
4-3/403	41271	G080	CR120AD04041AA	AC-DC-2	CA
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	13HFA151A9H	AC-DC-1	SCS
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
PLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

Di

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

19

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechan cally actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly fisted on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

TEM

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

Stown

DATE:

EQUIPMENT ID: HCV-438A SYSTEM: AC-CCW DESCRIPTION: RCP & CEDM SEAL COOLING OUTLET VALVE

CLASS: 7

FUNCT: P

PATH: AUX/CCW

ROOM: CONT

ELEVATION: 994

LOCATION: 8WBB37NIII

P and ID:

35368

POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-2	41564	G080	12HFA151A2F	AI-43A	CA
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A *	SCS
86A/CiAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
94/438A/C	41303	G080	CR120A	AI-45	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/P1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9879	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXCIAJITTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PCS-412	41303	A499	SB-11AKMR/TG10A32BR	PCS-412	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pressure Switch PCS-412 has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Combination of ESF and pressure switch causes undesirable state, therefore operator action required.

4) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

5) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

The

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

711

DATE:

EQUIPMENT ID: HCV-438B

SYSTEM: AC-CCW

DESCRIPTION: RCP & CEDM SEAL COOLING INLET VALVE

CLASS: 7

FUNCT: P

PATH: AUX/CCW

ROOM: 13

ELEVATION: 992

LOCATION: 9WN3N6C

P and ID:

35367 POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742B-2	41567	G080	12HFA151A2F	AI-43B	CA
36/AI-43B	41567	G080	12HEA61C239 or X2	AI-43B	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6A1/PPLS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
36B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
B6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
04/438B/D	41303	G080	CR120A	AI-45	SCS
VPC-742-2	9841	S582	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
3/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
7PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
CS-413	41303	A499	SB-11AKMR/TG10A32BR	PCS-413	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pressure Switch PCS-413 has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Combination of ESF and pressure switch causes undesirable state, therefore operator action required.

4) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

5) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

que

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

organ

DATE:

EQUIPMENT ID: HCV-438C SYSTEM: AC-CCW

DESCRIPTION: RCP & CEDM SEAL COOLING INLET VALVE
CLASS: 7 FUNCT: P PATH: AUX/CCW

CLASS: 7 FUNCT: P
ROOM: CONT ELEVATION: 994

LOCATION: 6WCC0NIV

P and ID: 35368 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742A-2	41564	G080	12HFA151A2F	AI-43A	CA
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
66B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
B6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
36B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
04/438A/C	41303	G080	CR120A	AI-45	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PiA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
Z/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
Z/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
O/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
PCS-412	41303	A499	SB-11AKMR/TG10A32BR	PCS-412	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pressure Switch PCS-412 has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Combination of ESF and pressure switch causes undesirable state, therefore operator action required.

4) Mechanically actuated devices which are deemed not valuerable were screened during review of the control circuit schematic drawings. These devices are not expectely listed on form G.4 (See Sec. 3.1).

5) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

KM

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

Ofen.

DATE:

EQUIPMENT ID: HCV-438D SYST

SYSTEM: AC-CCW

DESCRIPTION:

RCP & CEDM SEAL COOLING OUTLET VALVE

CLASS: 7

FUNCT: P

PATH: AUX/CCW

ROOM: 13

ELEVATION: 992

LOCATION: 12WN3N6C

P and ID:

35367

POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
742B-2	41567	G080	12HFA151A2F	A1-43B	CA
86/AI-43B	41567	G080	12HEA61C239 or X2	Al-43B	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
94/438B/D	41303	G080	CR120A	AI-45	SCS
A/PC-742-2	9841	5382	12N6BB4NXCIAJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PCS-413	41303	A 499	SB-11AKMR/TG10A32BR	PCS-413	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Pressure Switch PCS-413 has direct control over valve position;

2) Relays not associated with CIAS ESF signal are functionally screened.

3) Combination of ESF and pressure switch causes undesirable state, therefore operator action required.

4) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

5) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

6) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

JE80

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

59.00

DATE:

EQUIPMENT ID: HCV-489A SYSTEM: AC-CCW

DESCRIPTION: AC-1A CCW HX INLE? VALVE

CLASS: 7

NORMAL STATE: *O*

FUNCT: A

PATH: AUX/CCW

ROOM: 4

ELEVATION: 995

LOCATION: 10WD11N5B

P and ID:

55196 POWER: NA

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	Al-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
94/489	41588	G080	CR120A26241	AC-DC-2	CA
A/94-3/SIAS	5649	G080	12HFA151A2H	AC-DC-I	SCS
A/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	\$382	12N6BB4NXCIAJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT	DISPOSTION: Screened
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REASON:

PREPARED BY:

J.K. Mathew

0200

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

2

DATE:

EQUIPMENT ID: HCV-489B SYSTEM: AC-CCW

DESCRIPTION: AC-1A CCW HX OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 4

ELEVATION: 992

LOCATION: 10WD1N6D

P and ID:

55195 POWER: NA

NORMAL STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
94/489	41588	G080	CR120A26241	AC-DC-2	CA
A/94-3/SIAS	5649	G080	12HFA151A2H	AC-DC-1	SCS
A/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	1 1

EQUIPMENT ID: HCV-490A SYSTEM: AC-CCW

DESCRIPTION: AC-1B CCW HX INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 4

ELEVATION: 1005

LOCATION: 9WD13N5B

P and ID:

55196 **POWER:** NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CCNTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A1/CPHS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
B6BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94/490	41588	G080	CR120A26241	AC-DC-2	CA
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/94-3/SIAS	5650	G080	12HFA151A2H	AC-DC-I	SCS
B/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/P1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-490B SYSTEM: AC-CCW

DESCRIPTION: AC-1B CCW HX OUTLET VALVE

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 4 ELEVATION: 1003 LOCATION: 10WD2N6D

P and ID: 55195 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF) *	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-308(ESF)	SCS
94/490	41588	G080	CR120A26241	AC-DC-2	CA
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/94-3/SIAS	5650	G080	12HFA151A2H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1.2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-491A SYSTEM: AC-CCW

DESCRIPTION: AC-1C CCW HX INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 18

ELEVATION: 992

LOCATION: 06ED06N5B

P and ID:

POWER: NA 55196

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
94/491	41588	G080	CR120A26241	AC-DC-2	CA
A/94-3/SIAS	5649	G080	12HFA151A2H	AC-DC-1	SCS
A/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-I'2Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	D/PC-742-1	SCS
DVPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-491B SYSTEM: AC-CCW

DESCRIPTION: AC-IC CCW HX OUTLET VALVE

CLASS: 7 FUNCT: A PATH: AUX/CCW

ROOM: 18 ELEVATION: 992 LOCATION: 08ED10S5B

P and ID: 55195 POWER: NA

NORMAL STATE: *O* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
94/491	41588	G080	CR120A26241	AC-DC-2	CA
A/94-3/SIAS	5649	G080	12HFA151A2H	AC-DC-1	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in 'saile of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: HCV-492A

SYSTEM: AC-CCW

DESCRIPTION: AC-1D CCW HX INLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 18

ELEVATION: 99

LOCATION: 08ED17S6D

P and ID:

55196

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A1/CPHS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	A1-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94/492	41588	G080	CR120A26241	AC-DC-2	CA
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/94-3/SIAS	5650	G080	12HFA151A2H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT I	DISPOSTION:	Screened
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REASON:

PREPARED BY:

J.K. Mathew

Here

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

EQUIPMENT ID: HCV-492B

SYSTEM: AC-CCW

DESCRIPTION:

AC-1D CCW HX OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 18

ELEVATION: 992

LOCATION: 08ED01N6D

P and ID:

55195 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94/492	41588	G080	CR120A26241	AC-DC-2	CA
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/94-3/SIAS	5650	G080	12HFA151A2H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	0/8/95	

EQUIPMENT ID: HCV-724A

SYSTEM: VA-CON

DESCRIPTION: CNTMT CLG & FILTER UNIT VA-15A; INLET DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/CCW

ROOM: CONT

ELEVATION: 1063

LOCATION: 18WAA-13NII

P and ID:

10431 POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/CRHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/CSAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/SIAS	9806	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A/VIAS	9806	G080	12HEA61C239X2	AI-30A(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	A1-308(ESF)	SCS
86B/CRHS	9816	G080	12HEA61C244X2	AI-30B(ESF)	SCS
86B/CSAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 ot X2	AI-30B(ESF)	SCS
86B/SIAS	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/CRHS	9807	G080	12HEA61C244X2	AI-30A(ESF)	SCS
B6B1/CSAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1/SIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
B6B1/VIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
4/724A	12287	G080	CR120A26241	AI-30A(ESF)	CA
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
CPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA

C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXCIAJITTX6	D/PC-742-1	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter of any contact that results in energizing relay is acceptable.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-725A

SYSTEM: VA-CON

DESCRIPTION: CNTMT CLG & FILTER UNIT VA-15B; INLET DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/CCW

ROOM: CONT

ELEVATION: 1063

LOCATION: 18WAA-29NIII

P and ID:

10431

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/CRHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)*	SCS
86A/CSAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/SIAS	9806	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86AI/CRHS	9817	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86A1/CSAS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
B6A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
36A1/SIAS	9817	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86AI/VIAS	9817	G080	12HEA61C239X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CRHS	9816	G080	12HEA61C244X2	AI-30B(ESF)	SCS
B6B/CSAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
36B/SIAS	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/VIAS	9816	G080	12HEA61C239 or X2	A1-30B(ESF)	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/RM:-060	9799	G080	12HFA151A9H	AI-33A	SCS
4/725A	12287	G080	CR120A26241	A1-30B(ESF)	CA
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PC-742-2	9841	S382	12N6BB4NXCIAJJTTX6	B/PC-742-2	SCS
3/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
3/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
3/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
Z/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
ZPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
7PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA

C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/P1A-102Y-1	9829	G030	12HFA151A9H	AC-DC-I	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/P(A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/P1A-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS

CA - Chatter Acceptable- Relay Non-

Essential

EQUIDMENT DISPOSITION, Samon

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rale of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter of any contact that results in energizing relay is acceptable.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occurs it could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON:	OSTION: Science			
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: HCV-921

SYSTEM: MS

DESCRIPTION:

RADIATION MONITOR RE-064, ISOL VALVE

CLASS: 7

FUNCT: P

PATH: DHR

ROOM: 81

ELEVATION: 1043

LOCATION: 13W'D-0N'4A

P and ID:

10458

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR

DRWG.

MFG. MODEL

BOX

STATUS

62-1/921/922 62/921 22613 22613 A109 7032PH A109 7012PF A1-207 A1-267 CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

VERIFIED BY:

R.F. Mehaffey

1) Hand control switched HC-921/922 and HC-921/922A are both in off position, therefore relay chatter is acceptable.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

9/8/95

DATE:

EQUIPMENT ID: HCV-922

SYSTEM: MS

DESCRIPTION:

RADIATION MONITOR RE-064, ISOL VALVE

CLASS: 7

FUNCT: P

PATH: DHR

ROOM: 81

ELEVATION: 1043

LOCATION: 13W'D-0N'4A

P and ID:

10458

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR DRWG.

MFG.

MODEL

BOX

STATUS

62-1/921/922 62/922

22613 22613 A109 A109 7032PH 7012PF

AI-207 AI-207 CA CA

H-296

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Hand control switched HC-921/922 and HC-921/922A are both in off position, therefore relay chatter is acceptable.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

EQUIPMENT ID: JW-2-1

SYSTEM: JW

DESCRIPTION: DG-1 IMMERSION HEATER

CLASS: 21

FUNCT: P

PATH: AUX/EDG

ROOM: 63

ELEVATION: 1009

LOCATION: 00WK-07N1A

P and ID:

17388

POWER: DP1-3

NORMAL STATE: *ON*

DESIRED STATE: *OFF*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
D1-21-103A	17397	P297	KRP14DG	DI	SCS
D1-21-127E2	17398	P297	KRP14DG	DI	SCS
D1-68-42FP	17411	S972	77U32	DI	CA
D1-68-42FP	17397	S972	77U32	DI	OUT
D1-68-42FP	17411	S972	77U32	DI	CA
TC-6032	17411	S345	BGW2S9	DG-1	CA
YT-6048	17398	S519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

		-	4		Company
E 3 1	ET BA	Æ		ED 1	€5
86.1	PT. 179	m i	(B)	PS 1	

1) This equipment can be functionally screened because of;

a) mechanical switch 43/HC opens control path when motor reaches 40 RPM,

b) Temp. sw. LT opens path above 155 deg. F.

c) no undesired seal-in can occur

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

0

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

EQUIPMENT ID: JW-2-2

SYSTEM: JW

DESCRIPTION: DG-2 IMMERSION HEATER

CLASS: 21

FUNCT: P

PATH: AUX/EDG

ROOM: 64

ELEVATION: 1009

LOCATION: 00WK-08S2B

P and ID:

48724 POWER: DP1-3

NORMAL STATE: *ON*

DESIRED STATE: *OFF*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
D1-68-42FP	17411	S972	77U32	DI	CA
D1-68-42FP	17397	S972	77U32	DI	OUT
D1-68-42FP	17411	S972	77U32	DI	CA
D2-21-103A	17397	P297	KRP14DG	D2	SCS
D2-21-127E2	17398	P297	KRP14DG	D2	SCS
TC-6132	17411	5345	BGW2S9	DG-2	CA
YT-6148	17398	\$519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) This equipment can be functionally screened because of;

a) mechanical switch 43/HC opens control path when motor reaches 40 RPM,

b) Temp. sw. LT opens path above 155 deg. F.

c) no undesired seal-in can occur

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

F - 111

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

DATE:

9/8/95

EQUIPMENT ID: LCV-218-2

SYSTEM: CH

DESCRIPTION: VCT OUTLET VALVE

CLASS: 7

FUNCT: A

PATH: INV,R,P

ROOM: 29

ELEVATION: 1010

LOCATION: 43WT24N7A

P and ID:

10476 **POWER:** NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
63X/LCS-218	9543	G080	12HFA151A9H	AC-DC-2	CA
74/LCV-218-2	41465	S440	219BBXP	MCC-3A2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G030	12HEA61C244 or X2	AI-30B(ESF)	SCS
6A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
6AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
6B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
/94-3/SIAS	5649	G080	12HFA151A2H	AC-DC-1	SCS
/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
/94-4/SIAS	41673	G080	12HFA151A2H	AC-DC-1	SCS
J/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
VPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
XPC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
VPC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
VPIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
VPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
Ac/LCV-218-2	41465	G080	CR106	MCC-3A2	CA
Mo/LCV-218-2	41465	G080	CR106	MCC-3A2	CA
PLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9E	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with SIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

- 3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew OKD	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey Fig.	DATE:	9/8/95	

EQUIPMENT ID: LCV-218-3

SYSTEM: CH

DESCRIPTION: SIRWT CVCS CROSS CONNECT VALVE

CLASS: 7

FUNCT: A

PATH: INV,R,P

ROOM: 7

ELEVATION: 992

LOCATION: 45WT02N7B

P and ID:

10476

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
63X/LCS-218	9543	G080	12HFA151A9H	AC-DC-2	CA
74/LCV-218-3	1258	S440	219BBXP	MCC-3A2	SCS
LCS-218	9543	M040	A-103F-EP/VP-2X-TDN	LCS-218	CA
Mc/LCV-218-3	1258	G080	CR106	MCC-3A2	CA
Mo/LCV-218-3	1258	G080	CR106	MCC-3A2	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Change of state is desired for this equipment, but operator action is the only possibility;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey 27-20	DATE	9/8/95	

EQUIPMENT ID: MS-291

SYSTEM: MS

DESCRIPTION: RC-2A PORV

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 81

ELEVATION: 1039

LOCATION: 19WD24N3A

P and ID:

10458 POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR DRWG. MFG.

MODEL

BOX

STATUS

94/291

43437 G080

CR120AD03041AA

CB-10,11

SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seal-in involved, therefore 94/291 must be seismically screened;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
AUDITHOUGH DAY	DE MALES		0.10.10.5	

EQUIPMENT ID: MS-292

SYSTEM: MS

DESCRIPTION:

RC-2B PORV

CLASS: 7

FUNCT: A

PATH: DHR

ROOM: 81

ELEVATION: 1038

LOCATION: 10EG-10N4A

P and ID:

10458

POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR

DRWG.

MFG. MODEL

BOX

STATUS

94/292

43437 G080

CR120AD03041AA

C8-10,11 AUX

SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Seal-in involved, therefore 94/292 must be seismically screened;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See, Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

KM

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

Litter !

DATE:

9/8/95

EQUIPMENT ID: PCV-102-1

SYSTEM: RC

DESCRIPTION: PORV

FUNCT: A

PATH: PC

CLASS: 7 ROOM: CONT

ELEVATION: 1647

LOCATION: 21WCC09NII

P and ID:

42107 POWER: NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
3/102-1	37777	F180	N-2AO-L2C-R	AI-198	CA
3X-1/102-1	37777	P297	KAP14AG	GM-1	CA
3X-2/102-1	37777	P297	KAP14AG	GM-1	CA
3X-3/102-1	37777	P297	KAP14AG	GM-1	CA
63X/102-1	37777	G080	CR120A26241	AC-DC-2	SCS
63X/102-2	37777	G080	CR120A26241	AC-DC-2	SCS
94-1/PPLS-A	9831	G080	12HFA151A9H	AC-DC-I	CA
AI-31A-AW10-K1	1605	P297	KHS17D11-24	AI-31A	SCS
A1-31B-BW10-K1	1605	P297	KHS17D11-24	Al-31B	SCS
AI-31C-CW10-K1	1605	P297	KHS17D11-24	AI-31C	SCS
AI-31D-DW10-KI	1605	P297	KHS17D11-24	AI-31D	SCS
M/PCV-102-1	37777	G080	CR106	MCC-3C1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter cannot change valve state (no seal-in), therefore critical path from RPS selected for seismic screening;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Not Screened

REASON:

PREPARED BY:

J.K. Mathew

400

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

84-22

DATE:

9/8/95

EQUIPMENT ID: PCV-102-2

SYSTEM: RC

DESCRIPTION: PORV

FUNCT: A

PATH: PC

CLASS: 7 ROOM: CONT

ELEVATION: 1047

LOCATION: 4WDD09NII

P and ID:

42107 **POWER:** NA

NORMAL STATE: *C*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
3/102-2	37777	F180	N-2AO-L2C-R	AI-197	CA
3X-1/102-2	37777	P297	KAP14AG	AI-31E	CA
3X-2/102-2	37777	P297	KAP14AG	AI-31E	CA
3X-3/102-2	37777	P297	KAP14AG	AI-31E	CA
43C/AI-185	12517	E155	LOR	Al-185	SCS
63X/102-1	37777	G080	CR120A26241	AC-DC-2	SCS
63X/102-2	37777	G080	CR120A26241	AC-DC-2	SCS
94-1/PPLS-B	9831	G080	12HFA51A49H	AC-DC-1	CA
AI-31A-AW10-K1	1605	P297	KHS17D11-24	AI-31A	SCS
AI-31B-BW10-K1	1605	P297	KHS17D11-24	AI-31B	SCS
AI-31C-CW10-K1	1605	P297	KHS17D11-24	AI-31C	SCS
AI-31D-DW10-K1	1605	P297	KHS17D11-24	AI-31D	SCS
M/PCV-102-2	37777	G080	CR106	MCC-4B1	SCS
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Chatter cannot change valve state (no seal-in), therefore critical path from RPS selected for seismic screening;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened			
REASON:				
PREPARED BY:	J.K. Mathew 460	DATE:	9/8/95	
VEDIEIED BV.	R F Mehaffey	DATE.	0/8/05	

EQUIPMENT ID: RC-4-HTRS-1

SYSTEM: EE-5

DESCRIPTION: PZR BACKUP HEATER BANK 1, GROUP 1

CLASS: 21

FUNCT: A

ROOM: CONT

ELEVATION: 1020

LOCATION: 6W'DD-19N'II

P and ID:

42107 POWER: MCC-3A1-B01

NORMAL STATE: OFF

DESIRED STATE: ON

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
62-A/LS	12280	A109	E-7014PD	AI-109A	CA
63X/LC-101	9513	G080	12HFA151A9H	AC-DC-2	CA
63X/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	CA
63X/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
36B1/PPLS	9807	G080	12HEA61C244 or X2	Al-30A(ESF)	SCS
86B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
94-A1/LS	12280	G080	12HFA151A2H	AI-109A	CA
94/1	43399	G080	CR2810	MCC-3A1	OUT
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
LC-101X	9513	F180	M/63U-ET-OHAR	AI-4A	OUT
LC-101Y	9513	F180	M/63U-ET-OHAR	A1-4B	OUT
LIC-101X	9513	S185	9223-11E	AI-4A	OUT
LIC-101Y	9513	S185	9223-11E	AI-4B	OUT
M/RC-4-HTRS-1	43399	G080	CR106	MCC-3A1	CA
PIC-103X	9503	S185	9223-11E-20550	CB-1,2,3	CA
PIC-103Y	9503	S185	9223-11E-20550	CB-1,2,3	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Intermittent operation of PZR heaters during the earthquake would not have any affect on the plant's safe shutdown capability.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened						
REASON:	Equipment Affected by outlier relays (see OSVS).						
PREPARED BY:	J.K. Mathew	DATE:	9/8/95				
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95				

EQUIPMENT ID: RC-4-HTRS-10

SYSTEM: EE-5

DESCRIPTION: PZR BACKUP HEATER BANK 4, GROUP 1

CLASS: 21

FUNCT: A

PATH: PC

ROOM: CONT

ELEVATION: 1020

LOCATION: 6W'DD-19N'II

P and ID:

42107 POWER: MCC-4C1-A01

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	вох	STATUS
183X1	43388	G080	12HFA151A2H	AI-109B	OUT
43B/A1-185	12517	E155	LOR	AI-185	SCS
62-B/LS	43388	A109	2414PD	AI-109B	SCS
63X-1/LC-101	9513	G080	12HFA151A9H	AC-DC-2	OUT
63X-1/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	OUT
63X-1/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	OUT
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94-B2/LS	43388	G080	12HFA151A2H	AI-109B	SCS
94-B3/LS	43388	G080	12HFA151A2H	AI-109B	OUT
94/10	43402	G080	CR2810	MCC-4C1	OUT
94/11	43402	G080	CR2810	MCC-4C1	OUT
94/12	43402	G080	CR2810	MCC-4C1	OUT
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	5185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
LC-101X	9513	F180	M/63U-ET-OHAR	AI-4A	OUT
LC-101Y	9513	F180	M/63U-ET-OHAR	AI-4B	OUT
LIC-101X	9513	S185	9223-11E	AI-4A	OUT
LIC-101Y	9513	S185	9223-11E	AI-4B	OUT
M/RC-4-HTRS-10	43402	G080	CR106	MCC-4C1	CA
M/RC-4-HTRS-11	43402	G080	CR106	MCC-4C1	CA
M/RC-4-HTRS-12	43402	G080	CR106	MCC-4C1	CA
PIC-103X	9503	S185	9223-11E-20550	CB-1,2,3	CA
PIC-103Y	9503	S185	9223-11E-20550	CB-1,2,3	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relay chatter can cause spurious start of equipment, but operator action is necessary to start equipment;

2) Equipment does not have a seal-in function:

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON: Equipment Affected by outlier relays (see OSVS).

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

EQUIPMENT ID: RC-4-HTRS-11 SYSTEM: EE-5

DESCRIPTION: PZR BACKUP HEATER BANK 4, GROUP 2 FUNCT: A

CLASS: 21 ROOM: CONT

ELEVATION: 1020

LOCATION: 6W'DD-19N'II

P and ID:

42107 POWER: MCC-4C1-B01

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

PATH: PC

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X1	43388	G080	12HFA151A2H	AI-109B	OUT
43B/AI-185	12517	E155	LOR	AI-185	SCS
62-B/LS	43388	A109	2414PD	AI-109B	SCS
63X-1/LC-101	9513	G080	12HFA151A9H	AC-DC-2	OUT
63X-1/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	OUT
63X-1/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	OUT
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/FPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94-B2/LS	43388	G080	12HFA151A2H	AI-109B	SCS
94-B3/LS	43388	G080	12HFA151A2H	AI-109B	OUT
94/10	43402	G080	CR2810	MCC-4C1	OUT
94/11	43402	G080	CR2810	MCC-4C1	OUT
94/12	43402	G080	CR2810	MCC-4C1	OUT
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
LC-101X	9513	F180	M/63U-ET-OHAR	AI-4A	OUT
LC-101Y	9513	F180	M/63U-ET-OHAR	AI-4B	OUT
LIC-101X	9513	S185	9223-11E	AI-4A	OUT
LIC-101Y	9513	S185	9223-11E	AI-4B	OUT
M/RC-4-HTRS-10	43402	G080	CR106	MCC-4C1	CA
M/RC-4-HTRS-11	43402	G080	CR106	MCC-4C1	CA
M/RC-4-HTRS-12	43402	G080	CR106	MCC-4C1	CA
PIC-103X	9503	\$185	9223-11E-20550	CB-1,2,3	CA
PIC-103Y	9503	S185	9223-11E-20550	CB-1,2,3	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relay chatter can cause spurious start of equipment, but operator action is necessary to start equipment;

2) Equipment does not have a seal-in function;

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Not Screened

REASON:

Equipment Affected by outlier relays (see OSVS).

PREPARED BY:

J.K. Mathew

CHEM

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

1. Jul

DATE:

9/8/95

EQUIPMENT ID: RC-4-HTRS-12

SYSTEM: EE-5

DESCRIPTION: PZR BACKUP HEATER BANK 4, GROUP 3

CLASS: 21

FUNCT: A

ROOM: CONT

ELEVATION: 1020

LOCATION: 6W'DD-19N'II

Pard ID:

42107

POWER: MCC-4C1-C01

NORMAL STATE: *OFF*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183X1	43388	G080	12HFA151A2H	Al-109B	OUT
43B/AI-185	12517	E155	LOR	AI-185	SCS
62-B/LS	43388	A109	2414PD	AI-109B	SCS
63X-1/LC-101	9513	G080	12HFA151A9H	AC-DC-2	OUT
63X-1/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	OUT
63X-1/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	OUT
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A I/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1X/SIAS	9817	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	A1-30B(ESF)	SCS
86BX/SIAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
94-B2/LS	43388	G080	12HFA151A2H	AI-109B	SCS
94-B3/LS	43388	G080	12HFA151A2H	AI-109B	OUT
94/10	43402	G080	CR2810	MCC-4C1	OUT
94/11	43402	G080	CR2810	MCC-4C1	OUT
04/12	43402	G080	CR2810	MCC-4C1	OUT
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
DVPIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
.C-101X	9513	F180	M/63U-ET-OHAR	AI-4A	OUT
LC-101Y	9513	F180	M/63U-ET-OHAR	AI-48	OUT
LIC-101X	9513	S185	9223-11E	AI-4A	OUT
JC-101Y	9513	S185	9223-11E	A1-48	OUT
WRC-4-HTRS-10	43402	G080	CR106	MCC-4C1	CA
WRC-4-HTRS-11	43402	G080	CR106	MCC-4C1	CA
M/RC-4-HTRS-12	43402	G080	CR106	MCC-4C1	CA
PIC-103X	9503	S185	9223-11E-20550	CB-1,2,3	CA
PIC-103Y	9503	S185	9223-11E-20550	CB-1,2,3	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relay chatter can cause spurious start of equipment, but operator action is necessary to start equipment;

2) Equipment does not have a seal-in function;

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened			
REASON:	Equipment Affected by outlier	relays (see OSVS).		
PREPARED BY:	J.K. Mathew O	DATE:	9/8/95	- 17
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: RC-4-HTRS-2

SYSTEM: EE-5

DESCRIPTION: PZR BACKUP HEATER BANK 1, GROUP 2

CLASS: 21

FUNCT: A

PATH: PC

ROOM: CONT

ELEVATION: 1020

LOCATION: 6W'DD-19N'II

P and ID:

42107 POWER: MCC-3A1-C01

NORMAL STATE: OFF

DESIRED STATE: ON

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
63X/LC-101	9513	G080	12HFA151A9H	AC-DC-2	CA
63X/LIC-101	9513	G080	12HFA151A9H	AC-DC-2	CA
63X/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
B6B1X/SIAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
94-A3/LS	12280	G080	12HFA51A42H	AI-109A	CA
94/2	43399	G080	CR2810	MCC-3A1	OUT
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
3/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
3/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
CPIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
.C-101X	9513	F180	M/63U-ET-OHAR	AI-4A	OUT
.C-101Y	9513	F180	M/63U-ET-OHAR	AI-4B	OUT
JC-101X	9513	S185	9223-11E	AI-4A	OUT
JC-101Y	9513	S185	9223-11E	AI-4B	OUT
M/RC-4-HTRS-2	43399	G080	CR106	MCC-3A1	CA
PIC-103X	9503	\$185	9223-11E-20550	CB-1,2,3	CA
PIC-103Y	9503	S185	9223-11E-20550	CB-1,2,3	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Intermittent operation of PZR heaters during the earthquake would not have any affect on the plant's safe shutdown capability.

- 2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the c circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could dela the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about to reach the core.
- 4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened			
REASON:	Equipment Affected by outlier r	elays (see OSVS).		
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: RC-4-HTRS-3

SYSTEM: EE-5

PATH: PC

DESCRIPTION: PZR BACKUP HEATER BANK 1, GROUP 3

CLASS: 21 ROOM: CONT

ELEVATION: 1020

FUNCT: A

LOCATION: 6W'DD-19N'II

P and ID:

42107 POWER: MCC-3A1-D01

NORMAL STATE: OFF

DESIRED STATE: ON

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
63X/LC-101	9513	G080	12HFA151A9H	AC-DC-2	CA
63X/LIC-105	9513	G080	12HFA151A9H	AC-DC-2	CA
63X/PIC-103	9503	G080	12HFA51A49H	AC-DC-2	CA
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86AX/SIAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	A1-30A(ESF)	SCS
86E1X/SIAS	9807	G080	12HEA61C342 or X2	Ai-30A(ESF)	SCS
94-A3/LS	12280	G080	12HFA51A42H	A1-109A	CA
94/3	43399	G080	CR2810	MCC-3A1	OUT
A/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
D/PC-742-I	9841	S382	12N6BB4NXC1aJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
LC-101X	9513	F180	M/63U-ET-OHAR	AI-4A	OUT
LC-101Y	9513	F180	M/63U-ET-OHAR	AI-4B	OUT
LIC-101X	9513	S185	9223-11E	AI-4A	OUT
LIC-101Y	9513	S185	9223-11E	AI-4B	OUT
M/RC-4-HTRS-3	43399	G080	CR106	MCC-3A1	CA
PIC-103X	9503	S185	9223-11E-20550	CB-1,2,3	CA
PIC-103Y	9503	S185	9223-11E-20550	CB-1,2,3	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Intermittent operation of PZR heaters during the earthquake would not have any affect on the plant's safe shutdown capability.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened					
REASON:	Equipment Affected by outlier relays (see OSVS).					
PREPARED BY:	J.K. Mathew Okro	DATE:	9/8/95			
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95			

EQUIPMENT ID: TCV-202

SYSTEM: CH

DESCRIPTION: LETDOWN TEMPERATURE CONTROL VALVE

CLASS: 7

FUNCT: A

PATH: INV

ROOM: CONT

ELEVATION: 998

LOCATION: 8WCC-24NIII

P and ID:

55158 POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *C*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
43A/AI-185	12517	E155	LOR	AI-185	SCS
742A-3	41564	G080	12HFA151A2F	AI-43A	SCS
86/AI-43A	41564	G080	12HEA61C239 or X2	AI-43A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
86B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
94/202	1279	G080	CR120AD04041AA	AC-DC-2	CA
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-1	9841	S382	12N6BB4NXCIAJJTTX6	C/PC-742-1	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/P1A-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
D/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA
TIC-202	1279	\$185	9223-20B	CB-1,2,3	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Relays not associated with CIAS ESF signal are functionally screened.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	0/8/05	

EQUIPMENT ID: TCV-893

SYSTEM: AC-CCW

DESCRIPTION: CONTROL ROOM HVAC ISOLATION

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 72

ELEVATION: 1037

LOCATION: 8WJ112N7A

P and ID:

10440

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	AI-106B	SCS
42/46A	21846	G080	CR120B0D0422	AI-224A	SCS
42X/VA46A	21847	G080	CR120B04022	AI-106A	SCS
5-1/VA46A	21847	G080	CR120B0D0422	AI-106A	SCS
5-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
5/VA46A	21847	G080	CR120B04022	AI-106A	SCS
86A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
36A/VIAS	9806	G080	12HEA61C239X2	AI-30A(ESF)	SCS
36B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
B6B1/VIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
94-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	SCS
94-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	SCS
94-1/6288A	21847	G080	CR120B04022	AI-106A	SCS
04-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
04-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
04-1/VA46A	21847	G080	CR120B04022	AI-106A	SCS
94-2/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-2/VA46A	21847	G080	CR120B04022	AI-106A	SCS
04-25/FD	9828	G080	CR120A26941	AI-54B	SCS
04-25X/FD	39723	P297	KUP5D1524	AI-54B	CA
94/VA46A	21847	G080	CR120B04022	AI-106A	SCS
4AXI/VIAS	21847	G080	CR120B0D0422	AJ-106A	SCS
A/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	SCS
POX-5	39723	P435	XL-3	AI-56	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
YIS-6287A	21847	1133	AG3100-9422	A1-34	CA
YIS-6287B	21847	1133	AG3100-9421	AI-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment regulated by two thermostats between 52 and 70 degrees F. Relay chatter that causes spurious operation is acceptable;

- 2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

Has

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

27:20

DATE:

9/8/95

EQUIPMENT ID: TCV-894

SYSTEM: AC-CCW

DESCRIPTION: CONTROL ROOM HVAC ISOLATION

CLASS: 7

FUNCT: A

PATH: AUX/CCW

ROOM: 72

ELEVATION: 1037

LOCATION: 8WJ111N6D

P and ID:

10440

POWER: NA

NORMAL STATE: *O*

DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	A1-106B	SCS
42/46B	21846	G080	CR120B0D0422	AJ-224A	SCS
42X/VA46B	21847	G080	CR120B0D0422	AI-106B	SCS
5-1/VA46A	21847	G080	CR120B0D0422	AI-106A	SCS
5-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
5/VA-46B	21847	G080	CR120B04022	AI-106B	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/VIAS	9817	G080	12HEA61C239X2	Al-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/VIAS	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
94-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	SCS
94-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	SCS
94-1/6288A	21847	G080	CR120B04022	AI-106A	SCS
94-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-051/062	9799	G080	12HFA151A9H	A1-33A	SCS
94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94-2/6288A	21847	G080	CR120B04022	AI-106A	SCS
94-2/VA46B	21847	G080	CR120B04022	A1-106B	SCS
94-25/FD	9828	G080	CR120A26941	A1-54B	SCS
94-25X/FD	39723	P297	KUP5D1524	A1-54B	CA
94/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94BX1/VIAS	21847	G080	CR120B04022	AI-106B	SCS
B/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	SCS
POX-5	39723	P435	X13	A1-56	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
YIS-6287A	21847	1133	AG3100-9422	AI-34	CA
Y1S-6287B	21847	1133	AG3100-9421	A1-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment regulated by two thermostats between 52 and 70 degrees F. Relay chatter that causes spurious operation is acceptable;

- 2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95	

SYSTEM: VA-CR **EQUIPMENT ID: VA-46A** DESCRIPTION: CONTROL ROOM HVAC COOLER AND FAN

CLASS: 10

FUNCT: P

PATH: AUX/CCW

ROOM: 72

ELEVATION: 1036

LOCATION: 8WJ1-12N7A

P and ID:

10440 POWER: MCC-3B1-C2R

NORMAL STATE: *ON*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	AI-106B	SCS
42/46A	21846	G080	CR120B0D0422	AI-224A	SCS
I2X/VA46A	21847	G080	CR120B04022	AI-106A	SCS
5-1/VA46A	21847	G080	CR120B0D0422	AI-106A	SCS
5-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
5/VA46A	21847	G080	CR120B04022	AI-106A	SCS
6A/CIAS	9806	G080	12HEA61C238X2	AI-30A(ESF)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/CRHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/CSAS	9806	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6A/SIAS	9806	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
6A/VIAS	9806	G080	12HEA61C239X2	AI-30A(ESF)	SCS
6B1/CIAS	9807	G080	12HEA61C237X2	AI-30A(ESF)	SCS
6B1/CPHS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/CRHS	9807	G080	12HEA61C244X2	AI-30A(ESF)	SCS
6B1/CSAS	9807	G080	12HEA61C242 or X2	AI-30A(ESF)	SCS
6B1/PPLS	9807	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
6B1/SIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
6BI/VIAS	9807	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
4-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	SCS
4-1/6286B-6287B	21347	G080	CR120B0D0422	AI-106B	SCS
4-1/6288A	21847	G080	CR120B04022	Al-106A	SCS
4-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
4-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
4-1/VA46A	21847	G080	CR120B04022	AI-106A	SCS
4-2/6288B	21847	G080	CR120B04022	AI-106B	SCS
4-2/VA46A	21847	G080	CR120B04022	AI-106A	SCS
4-25/FD	9828	G080	CR120A26941	AI-54B	SCS
4-25X/FD	39723	P297	KUP5D1524	AI-54B	CA
4/VA46A	21847	G080	CR120B04022	Al-106A	SCS
4AXI/VIAS	21847	G080	CR120B0D0422	AI-106A	SCS
4AX2/VIAS	21847	G080	CR120B04022	AI-106A	CA
/94-3/VIAS	41568	G080	12HFA151A2H	Al-44	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
/PIA-102Y	9829	\$185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
VPIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
/PC-742-1	9841	S382	12N68B4NXC1AJJTTX6	C/PC-742-1	SCS
7P1A-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS

CRI/VA46A	21846	T265	RLY-751	VA-46A	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
MCI/VA46A	21846	T265	CTR-535	VA-46A	SCS
MS1/VA46A	21846	T265	HTR-259	VA-46A	SCS
POX-5	39723	P435	XL-3	AI-56	CA
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-I	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	A1-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
RR/VA46A	21846	T265	RLY-983	VA-46A	SCS
TS/VA46A	21846	G080	CR120B0D0422	VA-46A	SCS
YIS-6287A	21847	1133	AG3100-9422	AI-34	CA
YIS-6287B	21847	1133	AG3100-9421	A!-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
YIT-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

 Logically this circuit can be functionally screened, but indeterminate desired position leads towards seismic screening or operator action;

- 2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).
- 3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.
- 4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened			
REASON:	Equipment affected by outlier r	elays (see OSVS).		
PREPARED BY:	J.K. Mathew Off	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

SYSTEM: VA-CR **EQUIPMENT ID: VA-46B** DESCRIPTION: CONTROL ROOM HVAC COOLER AND FAN

CLASS: 10

FUNCT: P

PATH: AUX/CCW

ROOM: 72

ELEVATION: 1036

LOCATION: 8WJ1-11N6D

P and ID:

10440 POWER: MCC-4A1-C03

NORMAL STATE: *ON*

DESIRED STATE: *ON*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
33X/291	43437	G080	CR120B04022	AI-106A	SCS
33X/292	43437	G080	CR120B04022	AI-106B	SCS
42/46B	21846	G080	CR120B0D0422	AI-224A	SCS
42X/VA46B	21847	G080	CR120B0D0422	AI-106B	SCS
5-1/VA46A	21847	G080	CR120B0D0422	AI-106A	SCS
5-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
5/VA46B	21847	G080	CR120B04022	AI-106B	SCS
86A1/CIAS	9817	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/CRHS	9817	G080	12HEA61C239 or X2	Al-30B(ESF)	SCS
86A1/CSAS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-308(ESF)	SCS
86A1/SIAS	9817	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86A I/VIAS	9817	G080	12HEA61C239X2	Al-30B(ESF)	SCS
86B/CIAS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CRHS	9816	G080	12HEA61C244X2	AI-30B(ESF)	SCS
86B/CSAS	9816	G080	12HEA61C242 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	Al-30B(ESF)	SCS
86B/SIAS	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86B/VIAS	9816	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
94-1/6286A-6287A	21847	G080	CR120B0D0422	AI-106A	SCS
94-1/6286B-6287B	21847	G080	CR120B0D0422	AI-106B	SCS
94-1/6288A	21847	G080	CR120B04022	AI-106A	SCS
94-1/6288B	21847	G080	CR120B04022	AI-106B	SCS
94-1/RM-050/061	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-051/062	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/RM-060	9799	G080	12HFA151A9H	AI-33A	SCS
94-1/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94-2/6288A	21847	G080	CR120B04022	AI-106A	SCS
94-2/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94-25/FD	9828	G080	CR120A26941	AI-54B	SCS
94-25X/FD	39723	P297	KUP5D1524	A1-54B	CA
94/VA46B	21847	G080	CR120B04022	AI-106B	SCS
94BX1/VIAS	21847	G080	CR120B04022	AI-106B	SCS
94BX2/VIAS	21847	G080	CR120B04022	AI-106B	CA
A/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/94-3/VIAS	41568	G080	12HFA151A2H	AI-44	SCS
B/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
	9029	3103	Take Jan July E.	1.11 1.400	1.75

CR1/VA46B	21846	T265	RLY-751	VA-46B	SCS
			The second secon		
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-2	9829	G080	12HFA151A9H	AC-DC-1	SCS
MC1/VA46B	21846	T265	CTR-535	VA-46B	SCS
MS1/VA46B	21846	T265	HTR-259	VA-46B	SCS
POX-5	39723	P435	XL-3	A1-56	CA
PPLS/BLOCK-B	9831	G080	12HFA151A9H	AC-DC-1	CA
RM-050	9799	V115	842-10-5	AI-33A	SCS
RM-051	9799	V115	842-3	AI-33A	SCS
RM-060	9799	V115	842-30	AI-33B	CA
RM-061	9799	V115	842-30	AI-33B	CA
RM-062	9799	V115	842-3	AI-33B	SCS
RR/VA46B	21846	T265	RLY-983	VA-46B	SCS
TS/VA46B	21846	G080	CR120B0D0422	VA-46B	SCS
YIS-6287A	21847	1133	AG3100-9422	AI-34	CA
YIS-6287B	21847	1133	AG3100-9421	AI-35	CA
YIT-6286A	21847	M028	7055	YIT-6286A	SCS
Y1T-6286B	21847	M028	7055	YIT-6286B	SCS
YIT-6288A	21847	M028	7040-FA	YIT-6288A	CA
YIT-6288B	21847	M028	7040-FA	YIT-6288B	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Logically this circuit can be functionally screened, but indeterminate desired position leads towards seismic screening or operator action;

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

3) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

4) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DIST	OSTION: Not Screened			
REASON:	Equipment affected by outlier r	relays (see OSVS).		
PREPARED BY:	J.K. Mathew	DATE:	9/8/95	
VERIFIED RV.	R.F. Mehaffey	DATE	9/8/95	

EQUIPMENT ID: YCV-1045 SYSTEM: MS

DESCRIPTION: AFW PUMP FW-10 STEAM SUPPLY

CLASS: 7 FUNCT: A PATH: DHR

ROOM: 19 ELEVATION: 996 LOCATION: 06WC01N3A

P and ID: 10458 POWER: NA

NORMAL STATE: *C* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
3/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
)3/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	A1-198	SCS
03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	A1-198	SCS
03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	Al-198	SCS
3/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	A!-199	SCS
03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	Al-199	SCS
03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	Al-199	SCS
03/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
I3X/RC-2A	20260	E155	SERIES 24	AI-179	CA
13X/RC-2B	22125	E155	SERIES 24	AI-179	CA
2-2-1/FW-10	9811	A109	2452PD	AI-30B(S2-1)	CA
2-2-2C/FW-10	9811	P297	KH-4778	AI-30B(S2-2)	CA
52-2-2X/FW-10	21423	G080	12HGA111J2	AI-66B	CA
36-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
16-1/S2-2	9815	G080	12HEA61C241 or X2	A1-30B(S2-2)	SCS
6A/CPHS	9806	G080	12HEA61C244 or X2	Al-30A(ESF)	SCS
6A/PPLS	9806	G080	12HEA61C244 or X2	Al-30A(ESF)	
6A1/CPHS	9817	G080	12HEA61C244 or X2	and the second second	SCS
6A1/PPLS	9817	G080		Al-30B(ESF)	SCS
66B/CPHS	9816	G080	12HEA61C244 or X2 12HEA61C244 or X2	Al-30B(ESF)	SCS
6B/PPLS	9816	G080		AI-30B(ESF)	SCS
94-1/1045			12HEA61C237 or X2	Al-30B(ESF)	SCS
1/1040	21423	G080	12HFA151A2H	A1-66B	CA

94-2/1045	21423	G080	12HFA151A2H	AI-66B	CA
94-3/1045	21423	G080	12HFA151A2H	A1-66B	CA
94-4/1045	21423	A109	E7022PB004	AI-66B	CA
94/1045	21423	G080	12HFA151A2H	A1-66B	CA
A/PC-742-1	9841	\$382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
A/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66A	SCS
A/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
B/PC-742-1	9841	5382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
B/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
B/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
BI/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66B	SCS
B1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
CSX-A/1045A	21423	G080	CR120A26241	AI-179	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJ\TX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in deenergized, normally closed configuration in its direct path;

2) Relays not associated with SGIS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISPOSTION: Not Screened

REASON:

Equipment affected by outlier relays (see OSVS).

PREPARED BY:

J.K. Mathew

13.01

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

-- ·/Y

DATE:

9/8/95

EQUIPMENT ID: YCV-1045A SYSTEM: MS

DESCRIPTION: RC-2A TO AFW STEAM SUPPLY

CLASS: 7 FUNCT: A PATH: DHR

ROOM: 81 ELEVATION: 1044 LOCATION: 03WD-2S4A

P and ID: 10458 POWER: NA

NORMAL STATE: *C* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-1	16143	F180	N-2AO-L2C-J	AI-197	SCS
03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2F-1-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	Al-197	SCS
03/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	A1-198	SCS
03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
01D-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/I -RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-199	SCS
43 X/RC-2A	20260	E155	SERIES 24	AI-179	CA
43X/RC-2B	22125	E155	SERIES 24	AI-179	CA
62-2-1/FW-10	9811	A109	2452PD	AI-30B(S2-1)	CA
62-2-2C/FW-10	9811	P297	KH-4778	A1-30B(S2-2)	CA
62-2-2X/FW-10	21423	G080	12HGA111J2	AI-66B	CA
86-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
86-1/S2-2	9815	G080	12HEA61C241 or X2	A1-30B(S2-2)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	Al-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
94-1/1045	21423	G080	12HFA151A2H	AI-66B	CA

94-2/1045	21423	G080	12HFA151A2H	AI-66B	CA
94-3/1045	21423	G080	12HFA151A2H	A1-66B	CA
94-4/1045	21423	A109	E7022PB004	AI-66B	CA
94/1045	21423	G080	12HFA151A2H	AI-66B	CA
94/1045C	43389	G080	CR120AD04041AA	CB-10,11	SCS
94/1045C-1	43389	G080	CR120AD04041AA	AI-179	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66A	SCS
A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A1/RC-2B/AFWS	16145	G080	12HFA151A2H	A1-66A	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
B/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
B/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
BI/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66B	SCS
B1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
C/PC-742-1	9841	S382	12N5BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
CSX-A/1045A	21423	G080	CR120A26241	AI-179	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	\$382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in deenergized, normally closed configuration in its direct path;

2) Relays not associated with SGIS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

EQUIPMENT DISP	OSTION: Not Screened						
REASON:	Equipment affected by outlier relays (see OSVS).						
PREPARED BY:	J.K. Mathew Okto	DATE:	9/8/95				
VERIFIED BY:	R.F. Mehaffey	DATE	9/8/95				

EQUIPMENT ID: YCV-1045B SYSTEM: MS

DESCRIPTION: RC-2B TO AFW STEAM SUPPLY

CLASS: 7 FUNCT: A PATH: DHR

ROOM: 81 ELEVATION: 1042 LOCATION: 11EG-17N4A

P and ID: 10458 POWER: NA

NORMAL STATE: *C* DESIRED STATE: *O*

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
03/A-RC2A-1-I	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/A-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/A-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-196	SCS
03/B-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2A-2-2	16143	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/B-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-197	SCS
03/C-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2A-2-2	16143	F180	N-2AO-L2C-R	A1-198	SCS
03/C-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-1-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-1	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/C-RC2B-2-2	16145	F180	N-2AO-L2C-R	AI-198	SCS
03/D-RC2A-1-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-1-2	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-1	16143	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2A-2-2	16143	F180	N-2AO-L2C-R	A1-199	SCS
03/D-RC2B-1-1	16145	F180	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-1-2	16145	F180 '	N-2AO-L2C-R	AI-199	SCS
03/D-RC2B-2-1	16145	F180	N-2AO-L2C-R	A1-199	SCS
03/D-RC2B-2-2	16145	F180	N-2AO-L2C-R	A1-199	SCS
43X/RC-2A	20260	E155	SERIES 24	AI-179	CA
43X/RC-2B	22125	E155	SERIES 24	AI-179	CA
62-2-1/FW-10	9811	A109	2452PD	AI-30B(S2-1)	CA
62-2-2C/FW-10	9811	P297	KH-4778	AI-30B(S2-2)	CA
62-2-2X/FW-10	21423	G080	12HGA111J2	AI-66B	CA
86-1/S2-1	9814	G080	12HEA61C241 or X2	AI-30B(S2-1)	SCS
86-1/S2-2	9815	G080	12HEA61C241 or X2	A1-30B(S2-2)	SCS
86A/CPHS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A/PPLS	9806	G080	12HEA61C244 or X2	AI-30A(ESF)	SCS
86A1/CPHS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86A1/PPLS	9817	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/CPHS	9816	G080	12HEA61C244 or X2	AI-30B(ESF)	SCS
86B/PPLS	9816	G080	12HEA61C237 or X2	AI-30B(ESF)	SCS
94-1/1045	21423	G080	12HFA151A2H	AI-66B	CA

94-2/1045	21423	G080	12HFA151A2H	AI-66B	CA
94-3/1045	21423	G080	12HFA151A2H	AI-66B	CA
94-4/1045	21423	A109	E7022PB004	A1-66B	CA
94/1045	21423	G080	12HFA151A2H	A1-66B	CA
94/1045B	43389	G080	CR120AD04041AA	CB-10,11	SCS
94/1045B-1	43389	G080	CR120AD04041AA	AI-179	SCS
A/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	A/PC-742-1	SCS
A/PC-742-2	9841	5382	12N6BB4NXC1AJJTTX6	A/PC-742-2	SCS
A/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
A/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
A/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A/RC-2B/AFWS	16145	G080	12HFA151A2H	Al-66A	SCS
A1/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66A	SCS
A1/RC-2B/AFWS	16145	G080	12HFA151A2H	A1-66A	SCS
B/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-1	SCS
B/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	B/PC-742-2	SCS
B/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
B/PIA-102Y-1	5829	G080	12HFA151A9H	AC-DC-I	SCS
B/RC-2A/AFWS	16143	G080	12HFA51A42H	AI-66B	SCS
B/RC-2B/AFWS	16145	G080	12HFA151A2H	A1-66B	SCS
B1/RC-2A/AFWS	16143	G080	12HFA51A42H	A1-66B	SCS
B1/RC-2B/AFWS	16145	G080	12HFA151A2H	AI-66B	SCS
C/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-1	SCS
C/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	C/PC-742-2	SCS
C/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
C/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-1	SCS
CSX-A/1045A	21423	G080	CR120A26241	AI-179	SCS
D/PC-742-1	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-1	SCS
D/PC-742-2	9841	S382	12N6BB4NXC1AJJTTX6	D/PC-742-2	SCS
D/PIA-102Y	9829	S185	9223-30-E	CB-1,2,3	CA
D/PIA-102Y-1	9829	G080	12HFA151A9H	AC-DC-I	SCS
PPLS/BLOCK-A	9831	G080	12HFA151A9H	AC-DC-1	CA

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Equipment has bad actor relay in deenergized, normally closed configuration in its direct path;

2) Relays not associated with SGIS ESF signal are functionally screened.

3) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

4) These dropout the clutches to trip the reactor. Depending on when the chatter occursit could delay time into the reactor. If chatter occurs after drop it cannot pickup clutches to prevent trip. The rods take about 2 seconds to reach the core.

5) Switch and permissive must be used to complete seal -in -circuit. The circuit could be bypassed for milliseconds under chatter conditions which is not significant.

REASON: Equipment affected by outlier relays (see OSVS).

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871A

SYSTEM: VA-EDL

DESCRIPTION:

DIESEL GENERATOR 2; FRESH AIR DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDG

ROOM: 65

ELEVATION: 1042

LOCATION: 11W'D-9N'1A

P and ID:

56299

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D2X	23737	G080	CR120BDD32	RB-D2	CA
D2-21-103BX	17397	P297	KRP14DG	D2	SCS
D2-21-127E2	17398	P297	KRP14DG	D2	SCS
YT-6148	17398	\$519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

THEN

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

a for

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871B

SYSTEM: VA-EDL

DESCRIPTION:

DIESEL GENERATOR 2; FRESH AIR DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDG

ROOM: 65

ELEVATION: 1042

LOCATION: 11W'M-4N'1A

P and ID:

56299

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D2X	23737	G080	CR120BDD32	RB-D2	CA
94-23/FD	9828	G080	CR120A26941	A1-54B	CA
94-23X/FD	39723	P297	KUP5D15	A1-54B	CA
94/VA-52B	41561	\$440	219BBXP	A1-147	CA
D2-18A-103CX	17397	P297	KAPIIDG	D2	CA
D2-21-103BX	17397	P297	KRP14DG	D2	SCS
D2-21-127E2	17398	P297	KRP14DG	DI	SCS
ME/VA-52B	41561	G080	CR106	MCC-4A1	CA
Mr/VA-52B	41561	G080	CR106	MCC-4A1	CA
POX-3	39723	P435	XL-3	AI-56	CA
TC-858B	15701	1073	T-7154	TC-858B	CA
YT-6148	17398	S519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISP	OSTION: Screened			
REASON:				
PREPARED BY:	J.K. Mathew 400	DATE:	9/8/95	
VERIFIED BY:	R.F. Mehaffey	DATE:	9/8/95	

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871C

SYSTEM: VA-EDL

DESCRIPTION:

DIESEL GENERATOR 2; FRESH AIR DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDG

ROOM: 65

ELEVATION: 1042

LOCATION: 11W'M-24N'1A

P and ID:

56299

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D2X	23737	G080	CR120BDD32	RB-D2	CA
D2-21-103BX	17397	P297	KRP14DG	D2 ·	SCS
D2-21-127E2	17398	P297	KRP14DG	D2	SCS
YT-6148	17398	S519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

VERIFIED BY: R

R.F. Mehaffey

the

DATE:

9/8/95

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7143-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871D

SYSTEM: VA-EDL

DESCRIPTION:

DIESEL GENERATOR 2; FRESH AIR DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDG

ROOM: 65

ELEVATION: 1042

LOCATION: 11W'M-17N'1A

P and ID:

56299 **POWER:** NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D2X	23737	G080	CR120BDD32	RB-D2	CA
D2-21-103BX	17397	P297	KRP14DG	D2	SCS
D2-21-127E2	17398	2297	KRP14DG	D2	SCS
YT-6148	17398	S519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable - Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

ake

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

Crow

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871E SYSTEM: VA-EDL

DESCRIPTION: DIESEL GENERATOR 1; RADIATOR EXHAUST DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDC

ROOM: 63

ELEVATION: 1030

LOCATION: 19W'K-2N'1A

P and ID:

56299

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D1X	23736	G080	CR120BDD32	RB-D1	CA
D1-21-103BX	17397	P297	KRP14DG	DI	SCS
D1-21-127E2	17398	P297	KRP14DG	DI	SCS
YT-6048	17398	S519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871F

SYSTEM: VA-EDL

DESCRIPTION: DIESEL GENERATOR 2; RADIATOR EXHAUST DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDG

ROOM: 64

ELEVATION: 1030

LOCATION: 19W'K-17N'1A

P and ID:

56299

POWER: NA

NORMAL STATE: C

DESIRED STATE. O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D2X	23737	G080	CR120BDD32	RB-D2	CA
D2-21-103BX	17397	P297	KRP14DG	D2 *	SCS
D2-21-127E2	17398	P297	KRP14DG	D2	SCS
YT-6148	17398	S519	ESSB-4AT	YT-6148	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

after

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

2740121

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871G SYSTEM: VA-EDL

DESCRIPTION: DIESEL GENERATOR 1; FRESH AIR DAMPER
CLASS: 0 FUNCT: A PATH: AUX/EDG

ROOM: MISL ELEVATION: 1024

LEVATION: 1024 LOCATION: 10W'F-11S'1A

P and ID: 56299 POWER: NA

NORMAL STATE: C DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D1X	23736	G080	CR120BDD32	RB-D1	CA
27-T1/OPLS-A	16951	A109	E7022AC003 or 004	1A4	SCS
27-TI/OPLS-B	16951	A109	E7022AC003 or 004	1A4	SCS
27-T1/OPLS-C	16951	A109	E7022AC003 or 004	1A3	SCS
27-T1/OPLS-D	16951	A109	E7022AC003 or 004	1A4	SCS
27X1/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X1/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-A	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-B	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-C	16951	P297	MDR-131-1	CB-4 AUX	SCS
27X2/OPLS-D	16951	P297	MDR-131-1	CB-4 AUX	SCS
86A/OPLS	16951	G080	12HEA61C239 or X2	AI-30A(ESF)	SCS
86AX/OPLS	9806	P297	KAP14DG	AI-30A(ESF)	CA
86AX2/OPLS	12280	G080	12HFA151A2H	AI-109A	CA
86B/OPLS	16951	G080	12HEA61C239 or X2	AI-30B(ESF)	SCS
86BX/OPLS	9816	P297	KAP14DG	AI-30B(ESF)	CA
86BX2/OPLS	43388	G080	12HFA151A2H	AI-109B	CA
94-32/FD	9828	G080	CR120A26941	AI-54B	CA
94-32X/FD	39723	P297	KUP5D15	AI-54B	CA
94/VA-52A	41561	S440	219BBXP	AI-146	CA
D1-18A-103CX	17397	P297	KAPIIDG	DI	CA
D1-21-103BX	17397	P297	KRP14DG	DI	SCS
D1-21-127E2	17398	P297	KRP14DG	DI	SCS
Mt/VA-52A	41561	G080	CR106	MCC-3B1	CA
Mr/VA-52A	41561	G080	CR106	MCC-3B1	CA
POX-4	39723	P435	XL-3	AI-56	CA
TC-858A	15701	J073	T-7154	TC-858A	CA
YT-6048	17398	S519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D)

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY:

J.K. Mathew

HED

DATE:

9/8/95

VERIFIED BY:

R.F. Mehaffey

87.77

DATE:

9/8/95

OPPD/Fort Calhoun A-46 Relay Tabulation Form (Based on EPRI NP-7148-SL (Ref. 5.2) Form G.4)

EQUIPMENT ID: YCV-871H

SYSTEM: VA-EDL

DESCRIPTION:

DIESEL GENERATOR 1; FRESH AIR DAMPER

CLASS: 0

FUNCT: A

PATH: AUX/EDG

ROOM: MISL

ELEVATION: 1024

LOCATION: 10W'K-11S'IA

P and ID:

56299

POWER: NA

NORMAL STATE: C

DESIRED STATE: O

CONTACT PAIR	DRWG.	MFG.	MODEL	BOX	STATUS
183-MES/D1X	23736	G080	CR120BDD32	RB-D1	CA
D1-21-103BX	17397	P297	KRP14DG	DI	SCS
D1-21-127E2	17398	P297	KRP14DG	Di	SCS
YT-6048	17398	\$519	ESSB-4AT	YT-6048	SCS

CA - Chatter Acceptable- Relay Non-

Essential

SCS- Seismically Screened (See App.

D

OUT - Outlier Relay

UNKN - Relay Model with Unknown Capacity

SWGR - Contact Pair Initially Included in "Rule of the

Box" for SWGR (Refs. 5.1, 5.2)

REMARKS

1) Component is not required to operate until after the earthquake.

2) Mechanically actuated devices which are deemed not vulnerable were screened during review of the control circuit schematic drawings. These devices are not explicitly listed on form G.4 (See Sec. 3.1).

EQUIPMENT DISPOSTION: Screened

REASON:

PREPARED BY: J.K. Mathew DATE: 9/8/95

VERIFIED BY: R.F. Mehaffey DATE: 9/8/95

RELAY EVALUATION REPORT

APPENDIX I.

GIP (REF. 5.2) OUTLIER SEISMIC VERIFICATION SHEETS (OSVSs)

1. OUTLIER IDENTIFICATION, DESCRIPTION, AND LOCATION

DEVICE ID: 183X1

DEV ELEV:

1011

DEV LOCATION:

AI-109B

DEV ROOM: 56

DEV POWER: AI-41B-06

DEV FILE: 43388

EQUIPMENT ID: RC-4-HTRS-10

SYSTEM: EE-5

EQUIP DESCRIPTION: PZR BACKUP HEATER BANK 4, GROUP 1 SOUG FUNCTION: A

PATH: PC

SQUG CLASS: 21

EQUIPMENT ID: RC-4-HTRS-11

SYSTEM: EE-5

EQUIP DESCRIPTION: PZR BACKUP HEATER BANK 4, GROUP 2

SOUG CLASS: 21

SQUG FUNCTION: A

PATH: PC

EQUIPMENT ID: RC-4-HTRS-12

SYSTEM: EE-5

EQUIP DESCRIPTION: PZR BACKUP HEATER BANK 4, GROUP 3

SQUG CLASS: 21

SOUG FUNCTION: A

PATH: PC

2. OUTLIER ISSUE DEFINITION

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.

CAPACITY VS. DEMAND

LOW RUGGEDNESS RELAY

MOUNTING TYPE, LOCATION

X OTHER

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

DEVICE ID: 183X1

a. Define (proposed) method(s) for resolving outlier (ranked in order of preference of the proposed) method(s) for resolving outlier (ranked in order of preference of the proposed) method of DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABIT TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT	
RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABI TESTING	NET/MOUNTING
MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION	
OTHER	
 Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	ng outlier (e.g.,
Operator action to reestablish pressure control exists in AOP's/EOP's.	
ERTIFICATION:	
the information on this OSVS is, to the best of my knowledge and belief, correct esolution of the outlier issues listed on this page will satisfy the requirements for levice) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
Print or Type Name Signature Signature	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION, DI	ESCRIPTION, AND LOCATION	
	DEV ELEV: 1036 DEV POWER: AI-40A-20	DEV LOCATION: AC-DC-2
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
2. OUTLIER ISSUE DEFINITION		
 Identify all the screening guideline guidelines could not be satisfied. 	s which are not met. (Check more	than one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATIO		UGGEDNESS RELAY
 Describe all the reasons for the outlethen the signatories would consider adequacy): 		
The relay capacity is unknown.		

DEVICE ID: 63X-1/LC-101

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of	preference).
RE-EVALUATION OF DEMAND/CAPACITY	
RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF C. TESTING	ABINET/MOUNTING
MODIFICATION OF CONTROL CIRCUITY	
REPLACEMENT	
RESELECTION OF SAFE SHUTDOWN PATH	
OPERATOR ACTION	
OTHER	
 Provide information needed to implement proposed method(s) for resc estimate of fundamental frequency). 	olving outlier (e.g.,
Operator action to reestablish pressure control exists in AOP's/EOP's.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, co resolution of the outlier issues listed on this page will satisfy the requirement (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

	(OSVS)	
1. OUTLIER IDENTIFICATION	, DESCRIPTION, AND LOCATION	
DEVICE ID: 63X-1/LIC-101 DEV ROOM: 77 DEV FILE: 9513	DEV ELEV: 1036 DEV POWER: AI-40A-20	DEV LOCATION: AC-DC-2
EQUIPMENT ID: RC-4-HTRS-1	O SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BA	CKUP HEATER BANK 4, GROUP 1	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-1	1 SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BA	CKUP HEATER BANK 4, GROUP 2	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-12	2 SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BA	CKUP HEATER BANK 4, GROUP 3	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
2. OUTLIER ISSUE DEFINITION	N	
Identify all the screening guidel guidelines could not be satisfied	lines which are not met. (Check more	than one if several
CAPACITY VS. DEMAND	LOW R	UGGEDNESS RELAY

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

DEVICE ID: 63X-1/LIC-101

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of prefer	ence).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABIN TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	ET/MOUNTING
 Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	outlier (e.g.,
Operator action to reestablish pressure control exists in AOP's/EOP's.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, correct a resolution of the outlier issues listed on this page will satisfy the requirements for to (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey At Whaffey	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION, D	ESCRIPTION, AND LOCATION	
	DEV ELEV: 1036 DEV POWER: AI-40A-20	DEV LOCATION: AC-DC-2
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
OUTLIER ISSUE DEFINITION a. Identify all the screening guideline guidelines could not be satisfied.	s which are not met. (Check more the	nan one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATIO		GGEDNESS RELAY

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

DEVICE ID: 63X-1/PIC-103

3. (PROPOSED) METHOD OF OUTLIER I	RESOLUTION	
a. Define (proposed) method(s) for reso	olving outlier (ranked in order of pr	reference).
RE-EVALUATION OF DEMAND/CA	PACITY	
RELOCATION OF RELAY/OTHER D	EVICE, MODIFICATION OF CA	BINET/MOUNTING
TESTING MODIFICATION OF CONTROL CIRC	CHEV	
MODIFICATION OF CONTROL CIRC REPLACEMENT	COLL	
RESELECTION OF SAFE SHUTDOW	'N PATH	
1_ OPERATOR ACTION		
OTHER		
 Provide information needed to imple estimate of fundamental frequency). 	ment proposed method(s) for resol-	ving outlier (e.g.,
Operator action to reestablish pressur	re control exists in AOP's/EOP's.	
CERTIFICATION:		
The information on this OSVS is, to the best resolution of the outlier issues listed on this (device) to be verified for seismic adequacy.	page will satisfy the requirements	
Approved by (Lead Relay Reviewer):	/ //	
R.F. Mehaffey	P+Mhagher,	9/8/95
Print or Type Name	Signature/	Date
	11	

I. OUTLIER ID	ENTIFICATION,	DESCRIPTION, AND LOCA	ATION
DEV ROOM: 77	5X-B-A1/CPHS 7 976	DEV ELEV: DEV POWER: AI-41B-08	1036 DEV LOCATION: AI-43B
		SYSTEM: MS SOLATION VALVE	
SQUG CLASS:	7	SQUG FUNCTION: A	PATH: DHR
THE RESERVE OF THE PARTY OF THE		SYSTEM: MS	
EQUIP DESCRI	PTION: RC-2A B	YPASS ISOLATION VALVE	
SQUG CLASS:	7	SQUG FUNCTION: P	PATH: DHR
EQUIPMENT II): HCV-1386	SYSTEM: FW	
EQUIP DESCRI	PTION: RC-2A F	EEDWATER INLET VALVE	
SQUG CLASS:	7	SQUG FUNCTION: A	PATH: DHR
2. OUTLIER IS:	SUE DEFINITION		
	e screening guideli ld not be satisfied.	nes which are not met. (Chec	k more than one if several
guidelines cou			
	VS. DEMAND	1	LOW RUGGEDNESS RELAY

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

DEVICE ID: 86X-B-A1/CPHS

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of pre-	eference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CAE TESTING MODIFICATION OF CONTROL CIRCUITY	BINET/MOUNTING
REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	
 b. Provide information needed to implement proposed method(s) for resolv estimate of fundamental frequency). 	ing outlier (e.g.,
Relay removed from circuitry per MR-FC-92-044.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, corresolution of the outlier issues listed on this page will satisfy the requirements (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey 87 miles de	9/8/95
Print or Type Name Signature	Date

OUTLIER IDENTIFICATION	, DESCRIPTION, AND LO	CATION	
DEVICE ID: 87/1AD1-1 DEV ROOM: 77 DEV FILE: 9405	DEV ELEV: DEV POWER: NA	1036	DEV LOCATION: AI-24
EQUIPMENT ID: 1A3-20 EQUIP DESCRIPTION: DG1 FE	SYSTEM: DG EDER BREAKER 4.16KV	BUS 1A3	
SQUG CLASS: 3	SQUG FUNCTION	: A	PATH: AUX/EE
EQUIPMENT ID: DG-1	SYSTEM: DG		
EQUIP DESCRIPTION: EDG # 1	ENGINE (EE-1F)		
SQUG CLASS: 17	SQUG FUNCTION	: A	PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITIO	N		
a. Identify all the screening guide guidelines could not be satisfied		heck more th	han one if several
CAPACITY VS. DEMAND	X	LOW RU	GGEDNESS RELAY
MOUNTING TYPE, LOCA	mon	OTHER	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay model is a low-ruggedness (or "bad actor") type, according to Appendix E of EPRI NP-7148-SL (Ref. 5.2).

DEVICE ID: 87/1AD1-1

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of prefe	erence).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABIN TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	NET/MOUNTING
 Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	g outlier (e.g.,
For the first proposed method of resolution (Operator Action), operating pricircuits controlling equipment 1A3-20 and DG-1 does not currently exist.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, correct resolution of the outlier issues listed on this page will satisfy the requirements for (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION	ON, DESCRIPTION, AND LO	CATION		
DEVICE ID: 87/1AD1-2 DEV ROOM: 77 DEV FILE: 9405	DEV ELEV: DEV POWER: NA	1036	DEV LOCATION: AI-24	
EQUIPMENT ID: 1A3-20 EQUIP DESCRIPTION: DG1		BUS 1A3		
SQUG CLASS: 3	SQUG FUNCTION	: A	PATH: AUX/EE	
EQUIPMENT ID: DG-1 EQUIP DESCRIPTION: EDG	SYSTEM: DG # 1 ENGINE (EE-1F)			
SQUG CLASS: 17	SQUG FUNCTION	: A	PATH: AUX/EDG	
2. OUTLIER ISSUE DEFINIT	ION			
a. Identify all the screening guidelines could not be satisf		heck more t	han one if several	
CAPACITY VS. DEMAN MOUNTING TYPE, LOC		OTHER	GGEDNESS RELAY	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay model is a low-ruggedness (or "bad actor") type, according to Appendix E of EPRI NP-7148-SL (Ref. 5.2).

DEVICE ID: 87/1AD1-2

3. (PROPOSED) METHOD OF OUTLIER	RESOLUTION	
a. Define (proposed) method(s) for res-	olving outlier (ranked in order	of preference).
RE-EVALUATION OF DEMAND/CA RELOCATION OF RELAY/OTHER D TESTING MODIFICATION OF CONTROL CIRC REPLACEMENT RESELECTION OF SAFE SHUTDOW OPERATOR ACTION OTHER	DEVICE, MODIFICATION OF	CABINET/MOUNTING
 Provide information needed to implaestimate of fundamental frequency). 	ment proposed method(s) for re	esolving outlier (e.g.,
For the first proposed method of reso circuits controlling equipment 1A3-2		
CERTIFICATION:		
The information on this OSVS is, to the ber resolution of the outlier issues listed on this (device) to be verified for seismic adequacy	page will satisfy the requirement	
Approved by (Lead Relay Reviewer):		
R.F. Mehaffey	Finished w	9/8/95
Print or Type Name	Signature /	Date

1. OUTLIER IDENTIFICATION, DESCRIPTION, AND LOCATION DEV LOCATION: AI-24 1036 DEVICE ID: 87/1AD1-3 DEV ELEV: DEV ROOM: 77 DEV POWER: NA DEV FILE: 9405 EQUIPMENT ID: 1A3-20 SYSTEM: DG EQUIP DESCRIPTION: DG1 FEEDER BREAKER 4.16KV BUS 1A3 SQUG CLASS: 3 SOUG FUNCTION: A PATH: AUX/EE EQUIPMENT ID: DG-1 SYSTEM: DG EQUIP DESCRIPTION: EDG # 1 ENGINE (ZE-1F) SOUG FUNCTION: A PATH: AUX/EDG SQUG CLASS: 17 2. OUTLIER ISSUE DEFINITION a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied. X LOW RUGGEDNESS RELAY CAPACITY VS. DEMAND OTHER MOUNTING TYPE, LOCATION

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay model is a low-ruggedness (or "bad actor") type, according to Appendix E of EPRI NP-7148-SL (Ref. 5.2).

DEVICE ID: 87/1AD1-3

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of prefere	ence).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABINE TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPET A STON OTHER	ET/MOUNTING
 Provide information needed to implement proposed method(s) for resolving of estimate of fundamental frequency). 	outlier (e.g.,
For the first proposed method of resolution (Operator Action), operating procircuits controlling equipment 1A3-20 and DG-1 does not currently exist. MI	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, correct as resolution of the outlier issues listed on this page will satisfy the requirements for the (device) to be verified for seismic adequacy:	
Approveri by (Lead Relay Reviewer):	
R.F. Mehaffey	9/8/95
Print or Type Name Signarage	Date

1. OUTLIER IDENTIFICATION, DESCRIPTION, AND LOCATION

DEVICE ID: 87/1AD2-1

DEV ELEV:

1036 DEV LOCATION:

AI-25

DEV ROOM: 77

DEV POWER: NA

DEV FILE: 9405

EQUIPMENT ID: 1A4-1

SYSTEM: DG

EQUIP DESCRIPTION: DG2 FEEDER BREAKER 4.16KV BUS 1A4

SQUG CLASS: 3

SQUG FUNCTION: A

PATH: AUX/EE

EQUIPMENT ID: DG-2

SYSTEM: DG

EQUIP DESCRIPTION: EDG # 2 ENGINE (EE-IG)

SQUG CLASS: 17

SQUG FUNCTION: A

PATH: AUX/EDG

2. OUTLIER ISSUE DEFINITION

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.

CAPACITY VS. DEMAND

X LOW RUGGEDNESS RELAY

MOUNTING TYPE, LOCATION

OTHER

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay model is a low-ruggedness (or "bad actor") type, according to Appendix E of EPRI NP-7148-SL (Ref. 5.2).

DEVICE ID: 87/1AD2-1

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
	a. Define (proposed) method(s) for resolving outlier (ranked in order of prefer	ence).
2 3 1	RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABIN TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	ET/MOUNTING
	b. Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency).	outlier (e.g.,
	For the first proposed method of resolution (Operator Action), operating pro- circuits controlling equipment 1A3-20 and DG-1 does not currently exist. M	
CE	ERTIFICATION:	
res	e information on this OSVS is, to the best of my knowledge and belief, correct a olution of the outlier issues listed on this page will satisfy the requirements for to vice) to be verified for seismic adequacy:	
	Approved by (Lead Relay Reviewer):	
	Print or Type Name R.F. Mehaffey Signature Signature	9/8/95
	Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATIO	N, DESCRIPTION, AND LO	OCATION	
DEVICE ID: 87/1AD2-2 DEV ROOM: 77 DEV FILE: 9405	DEV ELEV: DEV POWER: NA	1036	DEV LOCATION: AI-25
EQUIPMENT ID: 1A4-1 EQUIP DESCRIPTION: DG2 F	SYSTEM: DG EEDER BREAKER 4.16KV	BUS 1A4	
SQUG CLASS: 3	SQUG FUNCTION: A		PATH: AUX/EE
EQUIPMENT ID: DG-2 EQUIP DESCRIPTION: EDG # SQUG CLASS: 17	SYSTEM: DG 2 ENGINE (EE-1G) SQUG FUNCTION	√: A	PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITION	ON		
a. Identify all the screening guide guidelines could not be satisfied		Check more th	an one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATION X LOW RUGGEDNESS RELAY OTHER			

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay model is a low-ruggedness (or "bad actor") type, according to Appendix E of EPRI NP-7148-SL (Ref. 5.2).

DEVICE ID: 87/1AD2-2

	AND ADDRESS OF THE PARTY OF THE	
3. (PROPOSED) METHOD OF OUTLIER RES	SOLUTION	
a. Define (proposed) method(s) for resolving	ing outlier (ranked in order of p	reference).
RE-EVALUATION OF DEMAND/CAPA RELOCATION OF RELAY/OTHER DEV TESTING		ABINET/MOUNTING
2 MODIFICATION OF CONTROL CIRCUIT	ITY	
3 REPLACEMENT		
RESELECTION OF SAFE SHUTDOWN I OPERATOR ACTION OTHER	PATH	
 Provide information needed to impleme estimate of fundamental frequency). 	nt proposed method(s) for reso	lving outlier (e.g.,
For the first proposed method of resolution circuits controlling equipment 1A3-20 a		
CERTIFICATION:		
The information on this OSVS is, to the best o resolution of the outlier issues listed on this pa (device) to be verified for seismic adequacy:		
Approved by (Lead Relay Reviewer):		
R.F. Mehaffey	7 mhatten	9/8/95
Print or Type Name	Signature /	Date

1. OUTLIER IDENTIFICATIO	N, DESCRIPTION, AND L	OCATION	
DEVICE ID: 87/1AD2-3 DEV ROOM: 77 DEV FILE: 9405	DEV ELEV: DEV POWER: NA	1036	DEV LOCATION: AI-25
EQUIPMENT ID: 1A4-1 EQUIP DESCRIPTION: DG2 I	SYSTEM: DG FEEDER BREAKER 4.16KV	/ BUS 1A4	
SQUG CLASS: 3	SQUG FUNCTIO	N: A	PATH: AUX/EE
EQUIPMENT ID: DG-2	SYSTEM: DG		
EQUIP DESCRIPTION: EDG			
SQUG CLASS: 17	SQUG FUNCTION	N: A	PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITI	ON		
a. Identify all the screening guide guidelines could not be satisfied		Check more tha	an one if several
CAPACITY VS. DEMAN	D 2	LOWRUC	GGEDNESS RELAY
MOUNTING TYPE, LOC.	ATION _	OTHER	
 Describe all the reasons for the then the signatories would conadequacy): 			

The relay model is a low-ruggedness (or "bad actor") type, according to Appendix E of EPRI

DEVICE ID: 87/1AD2-3

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of prefe	erence).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABI TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	NET/MOUNTING
 b. Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	ng outlier (e.g.,
For the first proposed method of resolution (Operator Action), operating p circuits controlling equipment 1A3-20 and DG-1 does not currently exist.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, correct resolution of the outlier issues listed on this page will satisfy the requirements for (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION, DE	SCRIPTION, AND LOCATION	
ACCOUNT OF THE PARTY OF T	EV ELEV: 1011 EV POWER: AI-41B-06	DEV LOCATION: AI-109B
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACKI SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACK! SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACKI SQUG CLASS: 21		PATH: PC
2. OUTLIER ISSUE DEFINITION		
 Identify all the screening guidelines guidelines could not be satisfied. 	which are not met. (Check more to	han one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATION		IGGEDNESS RELAY
b. Describe all the reasons for the outlethen the signatories would consider adequacy):		

DEVICE ID: 94-B3/LS

	Print or Type Name	Signature	Date
Ap	proved by (Lead Relay Reviewer R.F. Mehaffey	Ri meloffy	9/8/95
resolution (device) t	rmation on this OSVS is, to the be n of the outlier issues listed on the to be verified for seismic adequace	is page will satisfy the requirem	
CERTIFI	ICATION:		
Op	perator action to reestablish press	ure control exists in AOPs/EOF	P'S.
	ovide information needed to imp timate of fundamental frequency		resolving outlier (e.g.,
_ OTH	ER		
OPE	RATOR ACTION		
-	ELECTION OF SAFE SHUTDO	WN PATH	
100	DIFICATION OF CONTROL CIT LACEMENT	RCUITY	
TEST			
	OCATION OF RELAY/OTHER		CABINET/MOUNTING
	efine (proposed) method(s) for re EVALUATION OF DEMAND/C.		or preference).
	C / D . V. C	and the second section of the section	- C C

1. OUTLIER IDENTIFICATIO	N, DESCRIPTION, AND	LOCATION		
DEVICE ID: 94/1 DEV ROOM: 57 DEV FILE: 43399	DEV ELEV: DEV POWER: NA	1013	DEV LOCATION:	MCC-3A1
EQUIPMENT ID: RC-4-HTRS- EQUIP DESCRIPTION: PZR B SQUG CLASS: 21		1, GROUP 1	PATH: F	C
2. OUTLIER ISSUE DEFINITION	ON			
Identify all the screening guide guidelines could not be satisfied		(Check more t	han one if several	
CAPACITY VS. DEMANI)	LOW RU	GGEDNESS RELAY	
MOUNTING TYPE, LOCA	ATION	X OTHER		
b. Describe all the reasons for the then the signatories would con	e outlier (i.e., if all the list	ed outlier issue		

adequacy):

DEVICE ID: 94/1

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
	a. Define (proposed) method(s) for resolving outlier (ranked in order of prefe	erence).
	RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABI TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION	NET/MOUNTING
	 b. Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	g outlier (e.g.,
	Operator action to reestablish pressure control exists in AOP's/EOP's.	
CI	ERTIFICATION:	
res	e information on this OSVS is, to the best of my knowledge and belief, correct solution of the outlier issues listed on this page will satisfy the requirements for evice) to be verified for seismic adequacy:	
	Approved by (Lead Relay Reviewer):	
	R.F. Mehaffey and while	9/8/95
	Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION, DE	ESCRIPTION, AND LOCATION	Charges grant and the first of
	DEV ELEV: 1013 DEV POWER: MCC-4C1	DEV LOCATION: MCC-4C1
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACKI SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACKI SQUG CLASS: 21		PATH: PC
2. OUTLIER ISSUE DEFINITION		
 Identify all the screening guidelines guidelines could not be satisfied. 	which are not met. (Check more the	han one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATION		GGEDNESS RELAY
b. Describe all the reasons for the outli	ier (i.e., if all the listed outlier issue	s were resolved,

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

DEVICE ID: 94/10

stimate of fundamental frequency) perator action to reestablish pressor FICATION: pressormation on this OSVS is, to the be	est of my knowledge and belief, contis page will satisfy the requirements	rect and accurate, and
rovide information needed to implestimate of fundamental frequency) perator action to reestablish pressort FICATION: ormation on this OSVS is, to the been of the outlier issues listed on this to be verified for seismic adequacy	est of my knowledge and belief, consis page will satisfy the requirements	rect and accurate, and
HER rovide information needed to implestimate of fundamental frequency) perator action to reestablish pressure action to reestablish pressure. FICATION: ormation on this OSVS is, to the bean of the outlier issues listed on this	est of my knowledge and belief, consist page will satisfy the requirements	rect and accurate, and
HER rovide information needed to implestimate of fundamental frequency) perator action to reestablish pressu).	ving outlier (e.g.,
HER rovide information needed to impl stimate of fundamental frequency)).	ving outlier (e.g.,
HER rovide information needed to impl		ving outlier (e.g.,
ELECTION OF SAFE SHUTDOV	WN PATH	
DIFICATION OF CONTROL CIP PLACEMENT	RCUITY	
OCATION OF RELAY/OTHER		ABINET/MOUNTING
		reference).
1	EVALUATION OF DEMAND/C LOCATION OF RELAY/OTHER STING	Define (proposed) method(s) for resolving outlier (ranked in order of p EVALUATION OF DEMAND/CAPACITY LOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CA STING

1. OUTLIER IDENTIFICATION, DE	SCRIPTION, AND LOCATION	
	EV ELEV: 1013 EV POWER: MCC-4C1	DEV LOCATION: MCC-4C1
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACKI	UP HEATER BANK 4, GROUP I	D. Till DO
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACKI		
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACKI		
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
2. OUTLIER ISSUE DEFINITION		
 Identify all the screening guidelines guidelines could not be satisfied. 	which are not met. (Check more t	han one if several
CAPACITY VS. DEMAND	LOW RU	GGEDNESS RELAY
MOUNTING TYPE, LOCATION	X OTHER	
b. Describe all the reasons for the outli		

adequacy):

DEVICE ID: 94/11

3. (PROPOSED) METHOD OF OUTLIER RI	ESOLUTION	
a. Define (proposed) method(s) for resol	ving outlier (ranked in order of	preference).
RE-EVALUATION OF DEMAND/CAP.	ACITY	
RELOCATION OF RELAY/OTHER DE	EVICE, MODIFICATION OF C	CABINET/MOUNTING
TESTING	LURAV	
MODIFICATION OF CONTROL CIRCU REPLACEMENT	UIIY	
TESTING MODIFICATION OF CONTROL CIRCURENT REPLACEMENT RESELECTION OF SAFE SHUTDOWN OPERATOR ACTION	PATH	
OPERATOR ACTION		
OTHER		
 Provide information needed to implem estimate of fundamental frequency). 	nent proposed method(s) for res	olving outlier (e.g.,
Operator action to reestablish pressure	control exists in AOP's/EOP's.	
CERTIFICATION:		
The information on this OSVS is, to the best resolution of the outlier issues listed on this p (device) to be verified for scismic adequacy:	A STATE OF THE PARTY OF THE PAR	
Approved by (Lead Relay Reviewer):		
R.F. Mehaffey	2-1/ halley	9/8/95
Print or Type Name	Signature	Date

1. OUTLIER IDENTIFICATION, DE	SCRIPTION, AND LOCATION	
	EV ELEV: 1013 EV POWER: MCC-4C1	DEV LOCATION: MCC-4C1
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACK SQUG CLASS: 21		PATH: PC
2. OUTLIER ISSUE DEFINITION		
a. Identify all the screening guidelines guidelines could not be satisfied.	which are not met. (Check more t	han one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATION		JGGEDNESS RELAY
b. Describe all the reasons for the outlethen the signatories would consider adequate.		

DEVICE ID: 94/12

3. (PROPOSED) METHOD OF OUTLI	ER RESOLUTION	
a. Define (proposed) method(s) for	resolving outlier (ranked in order	r of prefer 'e).
RE-EVALUATION OF DEMANDA RELOCATION OF RELAY/OTHE TESTING MODIFICATION OF CONTROL OF REPLACEMENT RESELECTION OF SAFE SHUTD OPERATOR ACTION OTHER	ER DEVICE, MODIFICATION O	F CABINET/MOUNTING
b. Provide information needed to in estimate of fundamental frequence		resolving outlier (e.g.,
Operator action to reestablish pre	essure control exists in AOP's/EO	P's.
CERTIFICATION:		
The information on this OSVS is, to the resolution of the outlier issues listed on (device) to be verified for seismic adequates.	this page will satisfy the requirer	
Approved by (Lead Relay Review	ver):	
R.F. Mehaffey	ATM that de	9/8/95
Print or Type Name	Signature	Date

1.	OUTLIER	IDENTIFICATION.	DESCRIPTION.	AND LOCATION
----	---------	-----------------	--------------	--------------

DEVICE ID: 94/2

DEV ELEV:

1013 DEV LOCATION:

MCC-3A1

DEV ROOM: 57

DEV POWER: NA

DEV FILE: 43399

EQUIPMENT ID: RC-4-HTRS-2

SYSTEM: EE-5

EQUIP DESCRIPTION: PZR BACKUP HEATER BANK 1, GROUP 2

SQUG CLASS: 21

SQUG FUNCTION: A

PATH: PC

2. OUTLIER ISSUE DEFINITION

 a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.

CAPACITY VS. DEMAND

LOW RUGGEDNESS RELAY

MOUNTING TYPE, LOCATION

X OTHER

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

DEVICE ID: 94/2

Print or Type Name Signature	Date
Approved by (Lead Relay Reviewer): R.F. Mehaffey	9/8/95
The information on this OSVS is, to the best of my knowledge and belief, corresolution of the outlier issues listed on this page will satisfy the requirement (device) to be verified for seismic adequacy:	
CERTIFICATION:	
Operator action to reestablish pressure control exists in AOP's/EOP's.	
 b. Provide information needed to implement proposed method(s) for reseastimate of fundamental frequency). 	olving outlier (e.g.,
OPERATOR ACTION OTHER	
REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH	
MODIFICATION OF CONTROL CIRCUITY	
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF C TESTING	CABINET/MOUNTING
a. Define (proposed) method(s) for resolving outlier (ranked in order of	preference).
3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	

1. OUTLIER IDENTIFICATION	, DESCRIPTION,	AND LOCA	ATION	
DEVICE ID: 94/3 DEV ROOM: 57 DEV FILE: 43399	DEV ELEV: DEV POWER:	NA	1013	DEV LOCATION: MCC-3A1
EQUIPMENT ID: RC-4-HTRS-3 EQUIP DESCRIPTION: PZR BA			ROUP 3	
SQUG CLASS: 21	SQUG FUN	NCTION:	1	PATH: PC
 Identify all the screening guide guidelines could not be satisfied 		met. (Che	ck more t	han one if several
CAPACITY VS. DEMAND			LOW RU	GGEDNESS RELAY
MOUNTING TYPE, LOCA	TION	<u>X</u> .	OTHER	
 b. Describe all the reasons for the then the signatories would cons adequacy): 				
The relay capacity is unknown.				

DEVICE ID: 94/3

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of	f preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF C TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	CABINET/MOUNTING
 Provide information needed to implement proposed method(s) for re- estimate of fundamental frequency). 	solving outlier (e.g.,
Operator action to reestablish pressure control exists in AOP's/EOP's	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, c resolution of the outlier issues listed on this page will satisfy the requirement (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
Print or Type Name R.F. Mehaffey Signature Signature	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION	N, DESCRIPTION, AND LOCATION	
DEVICE ID: D1-112 DEV ROOM: 57 DEV FILE: 17397	DEV ELEV: 1019 DEV POWER: NA	DEV LOCATION: D-1
EQUIPMENT ID: 1A3-20 EQUIP DESCRIPTION: DG1 FI SQUG CLASS: 3	SYSTEM: DG EEDER BREAKER 4.16KV BUS 1A3 SQUG FUNCTION: A	PATH: AUX/EE
EQUIPMENT ID: DG-1 EQUIP DESCRIPTION: EDG # SQUG CLASS: 17	SYSTEM: DG I ENGINE (EE-IF) SQUG FUNCTION: A	PATH: AUX/EDG
OUTLIER ISSUE DEFINITIO a. Identify all the screening guide guidelines could not be satisfied.	elines which are not met. (Check more	than one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCA	LOW R	UGGEDNESS RELAY
then the signatories would con adequacy):	outlier (i.e., if all the listed outlier issu sider this item of equipment to be verifi	
The relay capacity is unknown		

DEVICE ID: D1-112

3. (PROPOSED) METHOD OF OUTLIER RESOLU	TION
a. Define (proposed) method(s) for resolving our	tlier (ranked in order of preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, I TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	MODIFICATION OF CABINET/MOUNTING
 Provide information needed to implement pro- estimate of fundamental frequency). 	posed method(s) for resolving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my k resolution of the outlier issues listed on this page will (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	, ,
R.F. Mehaffey	Mi fre ffly 9/8/95
Print or Type Name	Signature / Date

1. OUTLIER IDENTIFICA	TION, DESCRIPTION, AN	ND LOCATION	
DEVICE ID: D1-44-SV1X DEV ROOM: 63 DEV FILE: 17396	DEV ELEV: DEV POWER: N	1007 NA	DEV LOCATION: AI-133A
EQUIPMENT ID: DG-1 EQUIP DESCRIPTION. & SQUG CLASS: 17			PATH: AUX/EDG
2. OUTLIER ISSUE DEFI	NITION		
2. OUTLIER ISSUE DELL			
Identify all the screening guidelines could not be sa		et. (Check more t	han one if several
a. Identify all the screening	tisfied.		han one if several UGGEDNESS RELAY

adequacy):

DEVICE ID: D1-44-SV1X

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of pre	ference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CAB TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	BINET/MOUNTING
 b. Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	ing outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge and belief, correresolution of the outlier issues listed on this page will satisfy the requirements for the outlier issues listed on this page will satisfy the requirements for the outlier issues listed on this page will satisfy the requirements for the outlier issues listed on this page will satisfy the requirements for the outlier issues listed on the outlier issues listed on this page will satisfy the requirements for the outlier issues listed on this page will satisfy the requirements for the outlier issues listed on the outlier issues li	
Approved by (Lead Relay Reviewer): R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

	CAR HERE # 2555	4 500 100 1000 1000 CO 4 1000 CO 5 1	PARTICION PROPERTIES	4 5 197 3	CONTROL
I.	OUTLIER	IDENTIFICATION.	DESCRIPTION,	AND	LOCATION

DEVICE ID: D1-45-SV2X

DEV ELEV:

1007 DEV LOCATION: AI-133A

DEV ROOM: 63

DEV POWER: NA

DEV FILE: 17396

EQUIPMENT ID: DG-1

SYSTEM: DG

EQUIP DESCRIPTION: EDG # 1 ENGINE (EE-1F)

SQUG CLASS: 17

SQUG FUNCTION: A

PATH: AUX/EDG

2. OUTLIER ISSUE DEFINITION

a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.

CAPACITY VS. DEMAND

LOW RUGGEDNESS RELAY

MOUNTING TYPE, LOCATION

X OTHER

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

DEVICE ID: D1-45-SV2X

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of	of preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	CABINET/MOUNTING
 b. Provide information needed to implement proposed method(s) for re- estimate of fundamental frequency). 	esolving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge and belief, resolution of the outlier issues listed on this page will satisfy the requireme (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer): R.F. Mehaffey	9/8/95
R.F. Mehaffey	THE PARTY OF THE P

1. OUTLIER IDENTIFICATION	, DESCRIPTION, ANI	DLOCATION	
DEVICE ID: D1-66-42BPM1 DEV ROOM: 63 DEV FILS: 17397	DEV ELEV: DEV POWER: NA	1007	DEV LOCATION: DI
EQUIPMENT ID: DG-1 EQUIP DESCRIPTION: EDG # 1			
SQUG CLASS: 17	SQUG FUNCT	TION: A	PATH: AUX/EDG
EQUIPMENT ID: FO-4A-1-M EQUIP DESCRIPTION: DG-1 FO			
SQUG CLASS: 5	SQUG FUNCT		PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITIO	N		
a. Identify all the screening guide guidelines could not be satisfied		t. (Check more that	nn one if several
CAPACITY VS. DEMAND		LOW RUG	GEDNESS RELAY
MOUNTING TYPE, LOCA	TION	X OTHER	
b. Describe all the reasons for the then the signatories would cons			

adequacy):

DEVICE ID: D1-66-42BPM1

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of	preference).
RE-EVALUATION OF DEMAND/C APACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF COTTON OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	CABINET/MOUNTING
 b. Provide information needed to implement proposed method(s) for resestimate of fur damental frequency). 	olving outlier (e.g.,
CERTIFICATION:	orract and accurate and
The information on this OSVS is, to the best of my knowledge and belief, corresolution of the outlier issues listed on this page will satisfy the requirement (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer): R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION, I	DESCRIPTION, AND LOCATION	
DEVICE ID: D1-67-42BPM2 DEV ROOM: 63 DEV FILE: 17397	DEV ELEV: 1007 DEV POWER: NA	DEV LOCATION: D1
EQUIPMENT ID: DG-1 EQUIP DESCRIPTION: EDG # 1 I SQUG CLASS: 17	SYSTEM: DG ENGINE (EE-1F) SQUG FUNCTION: A	PATH: AUX/EDG
EQUIPMENT ID: FO-4A-2-M EQUIP DESCRIPTION: DG-2 FUE SOUG CLASS: 5	SYSTEM: FO-DG EL OIL TRANSFER PUMP MOTOR SQUG FUNCTION: A	FATH: AUX/EDG
2. OUTLIER ISSUE DEFINITION		
 a. Identify all the screening guideline guidelines could not be satisfied. 	nes which are not met. (Check more t	han one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCATION		JGGEDNESS RELAY
	utlier (i.e., if all the listed outlier issue er this item of equipment to be verifie	
The relay capacity is unknown.		

DEVICE ID: D1-67-42BPM2

3. (PROPOSED) METHOD OF OUTLIER RE	SOLUTION	
a. Define (proposed) method(s) for resolv	ring outlier (ranked in order of	f preference).
RE-EVALUATION OF DEMAND/CAPA RELOCATION OF RELAY/OTHER DEV TESTING MODIFICATION OF CONTROL CIRCU REPLACEMENT RESELECTION OF SAFE SHUTDOWN OPERATOR ACTION OTHER	VICE, MODIFICATION OF O	CABINET/MOUNTING
b. Provide information needed to impleme estimate of fundamental frequency).	ent proposed method(s) for res	solving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best or resolution of the outlier issues listed on this particle (device) to be verified for seismic adequacy:		
Approved by (Lead Relay Reviewer): R.F. Mehaffey	Fmheth	9/8/95
Print or Type Name	Signature	Date

1. OUTLIER IDENTIFICATIO	N, DESCRIPTION, AND LO	CATION	
DEVICE ID: D1-68-42FP DEV ROOM: 63 DEV FILE: 17397	DEV ELEV: DEV POWER: NA	1007	DEV LOCATION: DI
EQUIPMENT ID: DG-1 EQUIP DESCRIPTION: EDG	SYSTEM: DG # 1 ENGINE (EE-1F)		
SQUG CLASS: 17	SQUG FUNCTION:	A	PATH: AUX/EDG
EQUIPMENT ID: JW-2-1 EQUIP DESCRIPTION: DG-1	SYSTEM: JW IMMERSION HEATER		
SQUG CLASS: 21	SQUG FUNCTION:	P	PATH: AUX/EDG
EQUIPMENT ID: JW-2-2 EQUIP DESCRIPTION: DG-2			
SQUG CLASS: 21	SQUG FUNCTION:	P	PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITI	ON		
Identify all the screening guide guidelines could not be satisfice.		eck more th	nan one if several
CAPACITY VS. DEMAN		-	GGEDNESS RELAY
b. Describe all the reasons for the then the signatories would condequacy):	ne outlier (i.e., if all the listed on insider this item of equipment to		

DEVICE ID: D1-68-42FP

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of pre	ference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CAB TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER b. Provide information needed to implement proposed method(s) for resolving	
estimate of fundamental frequency).	ng outher (e.g.,
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, corrected resolution of the outlier issues listed on this page will satisfy the requirements for (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATIO	ON, DESCRIPTION, AND LO	CATION	
DEVICE ID: D2-112 DEV ROOM: 57 DEV FILE: 17397	DEV ELEV: DEV POWER: NA	1019	DEV LOCATION: D-2
EQUIPMENT ID: 1A4-1 EQUIP DESCRIPTION: DG2	SYSTEM: DG FEEDER BREAKER 4.16KV I	BUS 1A4	
SQUG CLASS: 3	SQUG FUNCTION:	A	PATH: AUX/EE
EQUIPMENT ID: DG-2 EQUIP DESCRIPTION: EDG	SYSTEM: DG # 2 ENGINE (EE-1G)		
SQUG CLASS: 17	SQUG FUNCTION:	Α	PATH: AUX/EDG
2. OUTLIER ISSUE DEFINIT	ION		
a. Identify all the screening gui		eck more th	nan one if several
CAPACITY VS. DEMAN	D	LOW RU	GGEDNESS RELAY
MOUNTING TYPE, LOC	ATION X	OTHER	
b. Describe all the reasons for the then the signatories would co	he outlier (i.e., if all the listed on sider this item of equipment t		

DEVICE ID: D2-112

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for woolving outlier (ranked	in order of preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICAT TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	TION OF CABINET/MOUNTING
 Provide information needed to implement proposed method estimate of fundamental frequency). 	d(s) for resolving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge an resolution of the outlier issues listed on this page will satisfy the r (device) to be verified for seismic adequacy:	d belief, correct and accurate, and equirements for this item of equipment
Approved by (Lead Relay Reviewer):	//
R.F. Mehaffey Print or Type Name Signature	9/8/95
Print or Type Name Signature	Date

N, DESCRIPTION, AN	ID LOC	ATION	
DEV ELEV: DEV POWER: N	IA	1007	DEV LOCATION: AI-133B
	G		
SQUG FUNC	TION:	A	PATH: AUX/EDG
delines which are not me	et. (Che	ck more t	han one if several
D		LOW RU	JGGEDNESS RELAY
ATION	X	OTHER	
nsider this item of equip			
	DEV ELEV: DEV POWER: N SYSTEM: D \$2 ENGINE (EE-1G) SQUG FUNC ON delines which are not med. D ATION ne outlier (i.e., if all the	DEV ELEV: DEV POWER: NA SYSTEM: DG 2 ENGINE (EE-1G) SQUG FUNCTION: A ON delines which are not met. (Chee ed. D ATION ATIO	SYSTEM: DG # 2 ENGINE (EE-1G) SQUG FUNCTION: A ON delines which are not met. (Check more ted. D LOW RU ATION OTHER ne outlier (i.e., if all the listed outlier issue ansider this item of equipment to be verified.

DEVICE ID: D2-44-SV1X

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked	d in order of preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICA TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	TION OF CABINET/MOUNTING
 Provide information needed to implement proposed method estimate of fundamental frequency). 	od(s) for resolving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge a resolution of the outlier issues listed on this page will satisfy the (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	1
R.F. Mehaffey Print or Type Name Signature	9/8/95
Print or Type Name Signature	Date

1. OUTLIER	IDENTIFICATIO	N, DESCRIPTION,	AND LOC	ATION		
	D2-45-SV2X	DEV ELEV: DEV POWER:	NA	1007	DEV LOCATION: AI-13	3B
EQUIPMENT EQUIP DESC		SYSTEM: # 2 ENGINE (EE-1G				
SQUG CLAS	S: 17	SQUG FU	NCTION:	A	PATH: AUX/ED	G
a. Identify all	ISSUE DEFINITION the screening guide could not be satisficed.	delines which are not	met. (Che	eck more t	han one if several	
	ITY VS. DEMAN		<u>_x</u>	LOW RU	GGEDNESS RELAY	
	gnatories would co	ne outlier (i.e., if all the nsider this item of eq				

DEVICE ID: D2-45-SV2X

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in	n order of preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATI TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESPLECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	ION OF CABINET/MOUNTING
 Provide information needed to implement proposed method estimate of fundamental frequency). 	(s) for resolving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge and resolution of the outlier issues listed on this page will satisfy the re (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer): R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

1. OUTLIER IDENTIFICATION	DESCRIPTION, AND LOCATIO	N .
DEVICE ID: D2-66-42BPM1 DEV ROOM: 64 DEV FILE: 17397	DEV ELEV: 10 DEV POWER: NA	07 DEV LOCATION: D2
EQUIPMENT ID: DG-2 EQUIP DESCRIPTION: EDG # 2 SQUG CLASS: 17	SYSTEM: DG ENGINE (EE-1G) SQUG FUNCTION: A	PATH: AUX/EDG
EQUIPMENT ID: FO-4B-1-M EQUIP DESCRIPTION: DG-1 FU SQUG CLASS: 5	SYSTEM: FO-DG UEL OIL TRANSFER PUMP MOT SQUG FUNCTION: A	OR PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITION	N	
a. Identify all the screening guidel guidelines could not be satisfied	ines which are not met. (Check mo	ore than one if several
CAPACITY VS. DEMAND	LOW	RUGGEDNESS RELAY
MOUNTING TYPE, LOCAT	TION X OTH	ER
 Describe all the reasons for the then the signatories would consi adequacy): 	outlier (i.e., if all the listed outlier i ider this item of equipment to be ve	
The relay capacity is unknown.		

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: D2-66-42BPM1

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of proposed)	oreference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CA TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	ABINET/MOUNTING
 b. Provide information needed to implement proposed method(s) for reso estimate of fundamental frequency). 	lving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge and belief, con	rrect and accurate, and
resolution of the outlier issues listed on this page will satisfy the requirements (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey Print or Type Name Signature	9/8/95
Print or Type Name Signature	Date

OUTLIER SEISMIC VERIFICATION SHEET (OSVS)

1. OUTLIER IDENTIFICATION	, DESCRIPTION, ANI	DLOCATION	
DEVICE ID: D2-67-42BPM2 DEV ROOM: 64 DEV FILE: 17397	DEV ELEV: DEV POWER: NA	1007 A	DEV LOCATION: D2
EQUIPMENT ID: DG-2 EQUIP DESCRIPTION: EDG #	SYSTEM: DO)	
SQUG CLASS: 17	SQUG FUNCT	TION: A	PATH: AUX/EDG
EQUIPMENT ID: FO-4B-2-M EQUIP DESCRIPTION: DG-2 F SQUG CLASS: 5		PUMP MOTOR	PATH: AUX/EDG
2. OUTLIER ISSUE DEFINITIO			
a. Identify all the screening guide guidelines could not be satisfied.		t. (Check more th	nan one if several
CAPACITY VS. DEMAND MOUNTING TYPE, LOCA		LOW RU _X_ OTHER	GGEDNESS RELAY
b. Describe all the reasons for the			

adequacy):

The relay capacity is unknown.

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: D2-67-42BPM2

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of prefer	rence).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABIN TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER b. Provide information needed to implement proposed method(s) for resolving	
estimate of fundamental frequency). CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, correct a resolution of the outlier issues listed on this page will satisfy the requirements for (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

OUTLIER SEISMIC VERIFICATION SHEET (OCVS)

THE RESIDENCE OF THE PROPERTY	The same of the sa	and the second course of the s	Control of the Contro
1. OUTLIER IDENTIFICATI	ON, DESCRIPTION, AND	LOCATION	
DEVICE ID: D2-68-42FP DEV ROOM: 64 DEV FILE: 17397	DEV ELEV: DEV POWER: NA	1007	DEV LOCATION: D2
EQUIPMENT ID: DG-2 EQUIP DESCRIPTION: EDC	SYSTEM: DG G # 2 ENGINE (EE-1G)		
SQUG CLASS: 17	SQUG FUNCTI	ION: A	PATH: AUX/EDG
OUTLIER ISSUE DEFINE a. Identify all the screening guidelines could not be satis	idelines which are not met.	(Check more that	han one if several
CAPACITY VS. DEMA	ND	LOW RU	GGEDNESS RELAY
MOUNTING TYPE, LO	CATION	X OTHER	
 b. Describe all the reasons for then the signatories would of adequacy): 			

The relay capacity is unknown.

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: D2-68-42FP

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of p	preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CA TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	ABINET/MOUNTING
 b. Provide information needed to implement proposed method(s) for reso estimate of fundamental frequency). 	olving outlier (e.g.,
CERTIFICATION: The information on this OSVS is, to the best of my knowledge and belief, corresolution of the outlier issues listed on this page will satisfy the requirements (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	0/9/05
Print or Type Name Signature	9/8/95 Date

OUTLIER SEISMIC VERIFICATION SHEET (OSVS)

1. OUTLIER IDENTIFICATION, D	ESCRIPTION, AND LOCATION	
DEVICE ID: LC-101X	DEV ELEV: 1036	DEV LOCATION: AI-4A
DEV ROOM: 77	DEV POWER: AI-40A-20	
DEV FILE: 9513		
EQUIPMENT ID: RC-4-HTRS-1	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BACK	KUP HEATER BANK 1, GROUP I	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-10	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BACK		
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-11	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BACK	CUP HEATER BANK 4, GROUP 2	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-12	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BACK	CUP HEATER BANK 4, GROUP 3	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-2	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BACK	CUP HEATER BANK 1, GROUP 2	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-3	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BACK	CUP HEATER BANK 1, GROUP 3	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
2. OUTLIER ISSUE DEFINITION		
 Identify all the screening guideline guidelines could not be satisfied. 	es which are not met. (Check more	than one if several
CAPACITY VS. DEMAND	LOWR	UGGEDNESS RELAY
MOUNTING TYPE, LOCATIO	N X OTHER	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: LC-101X

3. (PROPOSED) METHOD OF OUTLIER RE	SOLUTION	
a. Define (proposed) method(s) for resolv	ving outlier (ranked in order	of preference).
RE-EVALUATION OF DEMAND/CAPA RELOCATION OF RELAY/OTHER DET TESTING MODIFICATION OF CONTROL CIRCU REPLACEMENT RESELECTION OF SAFE SHUTDOWN OPERATOR ACTION OTHER	VICE, MODIFICATION OF	CABINET/MOUNTING
b. Provide information needed to implement estimate of fundamental frequency).	ent proposed method(s) for r	esolving outlier (e.g.,
Operator action to reestablish pressure	control exists in AOP's/EOP	s.
CERTIFICATION:		
The information on this OSVS is, to the best of resolution of the outlier issues listed on this particle (device) to be verified for seismic adequacy:		
Approved by (Lead Relay Reviewer): R.F. Mehaffey	of mobile.	9/8/95
Print or Type Name	Signature	Date

OUTLIER SEISMIC VERIFICATION SHEET (OSVS)

1. OUTLIER IDENTIFICATION, DE	SCRIPTION, AND LOCATION	
DEVICE ID: LC-101Y DEV ROOM: 77 DEV FILE: 9513	EV ELEV: 1036 EV POWER: AI-40B-21	DEV LOCATION: AI-4B
EQUIPMENT ID: RC-4-HTRS-1 EQUIP DESCRIPTION: PZR BACKU SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-10 EQUIP DESCRIPTION: PZR BACKU		
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-11 EQUIP DESCRIPTION: PZR BACKU		
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-12 EQUIP DESCRIPTION: PZR BACKU SQUG CLASS: 21		PATH: PC
EQUIPMENT 1D: RC-4-HTRS-2 EQUIP DESCRIPTION: PZR BACKU SQUG CLASS: 21		PATH: PC
EQUIPMENT ID: RC-4-HTRS-3 EQUIP DESCRIPTION: PZR BACKU SQUG CLASS: 21		PATH: PC
2. OUTLIER ISSUE DEFINITION		
 Identify all the screening guidelines guidelines could not be satisfied. 	which are not met. (Check more the	han one if several
CAPACITY VS. DEMAND	LOW RU	GGEDNESS RELAY
MOUNTING TYPE, LOCATION	X OTHER	

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: LC-101Y

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of prefe	erence).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CABIN TESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	NET/MOUNTING
 Provide information needed to implement proposed method(s) for resolving estimate of fundamental frequency). 	g outlier (e.g.,
Operator action to reestablish pressure control exists in AOP's/EOP's.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, correct resolution of the outlier issues listed on this page will satisfy the requirements for (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey R.F. Mehaffey	9/8/95
Print or Type Name Signature	Date

OUTLIER SEISMIC VERIFICATION SHEET (OSVS)

I. OUTLIER IDENTIFICATION, I	DESCRIPTION, AND LOCATION	
DEVICE ID: LIC-101X	DEV ELEV: 1036	DEV LOCATION: AI-4A
DEV ROOM: 77	DEV POWER: AI-40A-20	
DEV FILE: 9513		
EQUIPMENT ID: RC-4-HTRS-1	SYSTEM: EE-5	
	KUP HEATER BANK 1, GROUP 1	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-10	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BAC	KUP HEATER BANK 4, GROUP 1	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-11	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BAC	KUP HEATER BANK 4, GROUP 2	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-12	SYSTEM: EE-5	
	KUP HEATER BANK 4, GROUP 3	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-2	SYSTEM: EE-5	
EQUIP DESCRIPTION: PZR BAC	KUP HEATER BANK 1, GROUP 2	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
EQUIPMENT ID: RC-4-HTRS-3	SYSTEM: EE-5	
	KUP HEATER BANK 1, GROUP 3	
SQUG CLASS: 21	SQUG FUNCTION: A	PATH: PC
2: OUTLIER ISSUE DEFINITION		
	nes which are not met. (Check more	than one if several
CAPACITY VS. DEMAND	LOW RU	UGGEDNESS RELAY
MOUNTING TYPE, LOCATION	ON X OTHER	
b. Describe all the reasons for the or	utlier (i.e., if all the listed outlier issue	es were resolved.

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: LIC-101X

3. (PROPOSED) METHOD OF OUTLIER RESOLUTION	
a. Define (proposed) method(s) for resolving outlier (ranked in order of p	preference).
RE-EVALUATION OF DEMAND/CAPACITY RELOCATION OF RELAY/OTHER DEVICE, MODIFICATION OF CATESTING MODIFICATION OF CONTROL CIRCUITY REPLACEMENT RESELECTION OF SAFE SHUTDOWN PATH OPERATOR ACTION OTHER	ABINET/MOUNTING
 Provide information needed to implement proposed method(s) for reso estimate of fundamental frequency). 	olving outlier (e.g.,
Operator action to reestablish pressure control exists in AOP's/EOP's.	
CERTIFICATION:	
The information on this OSVS is, to the best of my knowledge and belief, corresolution of the outlier issues listed on this page will satisfy the requirement (device) to be verified for seismic adequacy:	
Approved by (Lead Relay Reviewer):	
R.F. Mehaffey 67 Milleffly	9/8/95
Print or Type Name Signature	Date

OUTLIER SEISMIC VERIFICATION SHEET (OSVS)

1. OUTLIER IDENTIFICATION, D	ESCRIPTION, AN	D LOCATION		
DEVICE ID: LIC-101Y	DEV ELEV:	1036	DEV LOCATION	N: AI-4B
DEV ROOM: 77	DEV POWER: A	I-40B-21		
DEV FILE: 9513				
EQUIPMENT ID: RC-4-HTRS-1	SYSTEM: EI	E-5		
EQUIP DESCRIPTION: PZR BACK				
SQUG CLASS: 21	SQUG FUNC	TION: A	PATH:	PC
EQUIPMENT ID: RC-4-HTRS-10	SYSTEM: EI	E-5		
EQUIP DESCRIPTION: PZR BACK				
SQUG CLASS: 21	SQUG FUNC	TION: A	PATH:	PC
EQUIPMENT ID: RC-4-HTRS-11	SYSTEM: EI	E-5		
EQUIP DESCRIPTION: PZR BACK				
SQUG CLASS: 21	SQUG FUNC	TION: A	PATH:	PC
EQUIPMENT ID: RC-4-HTRS-12	SYSTEM: EI	E-5		
EQUIP DESCRIPTION: PZR BACK	CUP HEATER BAN	NK 4, GROUP 3		
SQUG CLASS: 21	SQUG FUNC	TION: A	PATH:	PC
EQUIPMENT ID: RC-4-HTRS-2	SYSTEM: EF	3-5		
EQUIP DESCRIPTION: PZR BACK	CUP HEATER BAN	NK 1, GROUP 2		
SQUG CLASS: 21	SQUG FUNC	TION: A	PATH:	PC
EQUIPMENT ID: RC-4-HTRS-3	SYSTEM: EF	3-5		
EQUIP DESCRIPTION: PZR BACK	UP HEATER BAN	K 1, GROUP 3		
SQUG CLASS: 21	SQUG FUNC	TION: A	PATH:	PC
2. OUTLIER ISSUE DEFINITION				
a. Identify all the screening guideline guidelines could not be satisfied.	es which are not me	et. (Check more th	nan one if several	
CAPACITY VS. DEMAND		LOW RU	GGEDNESS RELA	Y
MOUNTING TYPE, LOCATIO	N	X. OTHER		

b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy):

The relay capacity is unknown.

OUTLIER SEISMIC VERIFICATION SHEET (OSVS), CONT'D

DEVICE ID: LIC-101Y

3. (PROPOSED) METHOD OF OUTLIER R	ESOLUTION	
a. Define (proposed) method(s) for reso	lving outlier (ranked in order of	preference).
RE-EVALUATION OF DEMAND/CAP	PACITY	
RELOCATION OF RELAY/OTHER DI TESTING	EVICE, MODIFICATION OF C	ABINET/MOUNTING
TESTING MODIFICATION OF CONTROL CIRC	CUTTY	
REPLACEMENT		
RESELECTION OF SAFE SHUTDOW	N PATH	
1 OPERATOR ACTION		
OTHER		
 Provide information needed to impler estimate of fundamental frequency). 	ment proposed method(s) for rese	olving outlier (e.g.,
Operator action to reestablish pressure	e control exists in AOP's/EOP's.	
CERTIFICATION:		
The information on this OSVS is, to the best resolution of the outlier issues listed on this (device) to be verified for seismic adequacy:		
Approved by (Lead Relay Reviewer):		
	87 milyste	9/8/95
Print or Type Name	Signature J	Date

RELAY EVALUATION REPORT

APPENDIX J.

RESUME OF LEAD RELAY REVIEWER

ROBERT F. MEHAFFEY

EDUCATION:

B.S. - Electrical Engineering, University of Nebraska at Lincoln, 1974 SQUG Relay Evaluation Training, 11/19/92

REGISTRATION:

State of Nebraska, #4873

PROFESSIONAL HISTORY:

Omaha Public Power District, Omaha, NE

Engineer, Technical Services, 1974-1976
Engineer, FCS Electrical/I&C Maintenance, 1976-1979
Supervisor I&C and Electrical, Technical Services, 1979-1986
Supervisor Electrical/I&C Engineering, 1986-1990
Principal Engineer Electrical/I&C, 1990-Present

PROFESSIONAL EXPERIENCE:

Mr. Mehaffey is heavily involved in electrical design issues related to instrumentation, equipment qualification, design basis reconstitution, and seismic safe shutdown at the Fort Calhoun Nuclear Power Station from 1974 to present.

EDUCATION:

Kurukshetra University - India - BSME - 1976-1981

Power Engineers Training Society - New Delhi, India - Certificate course in Power Plant Operations and Maintenance (37 weeks) - 1981-1982

Tata Electric Companies - Bombay, India - Control Room Operations Training with the use of Simulator - 1982

University of Illinois - Chicago - Graduate Coursework (48 QTR HRS) in Mechanical Engineering - 1984-1985

Seismic Qualification Utilities Group

Equipment Selection and Relay Evaluation Training-7/1991. Walkdown Screening and Seismic Evaluation Training-9/1992. Seismic Individual Plant Examination Training- 10/1992.

WORK EXPERIENCE:

1/91 -Present 6/89 -1/91 Omaha Public Power District 444 S. 16 St. Mall, Omaha, NE 68102

NUCLEAR DESIGN ENGINEER SENIOR MECHANICAL ENGINEER

Mr. Mathew is responsible for Mechanical engineering design; conceptual, preliminary, final and construction packages. He provides Project engineering; Prepare and track budget and schedules, A/E firm selection, coordination and review of work performed by A/E companies. He is responsible for preparation and review of work orders, purchase specifications, material and service evaluations, contract documents, procedures, system descriptions, safety analysis, LER, SAO/JCO/LCO, eccomic evaluation, root cause analysis, resolution of QA/DR's, QC/NCR's, Licensing and other commitments. Mr. Mathew performs Engineering Studies, Calculations and Analyses. He also provides construction management support and field engineering supports. He is also responsible for the seismic qualifications and se is mic evaluations in Engineering Mechanics/Analysis Group.

Mr. Mathew have experience in component stress analysis, finite element model analysis and dynamic analysis. He is familiar with codes and standards including ASME B&PV Codes, AISC, ANSI, ASTM, AWS, IEEE Standards, NRC Regulatory Guides, Title 10 of CFR, NUREG'S, MIL and UL Specifications.

4/85 - 10/88 10/88 - 6/89 Sargent & Lundy Engineers 55 E. Monroe, Chicago, IL 60603

ENGINEERING ANALYST

Mr. Mathew was responsible for preparation, review, and approval of environmental (EEQ) and seismic qualification test plans, reports, tests, and analysis for safety-related equipment used at various nuclear power stations for a number of utilities. He has designed the mounting details of various electrical and mechanical components, HVAC hangers, piping and pipe supports, clamps, snubbers, mechanical and electrical penetration assemblies and the loads required for the design of equipment foundations and floor slabs.

Mr. Mathew was also responsible for performing and reviewing plant backfit and Modification packages. In addition, he has prepared and reviewed Administrative, Quality and Technical Procedures and Guidelines. He was also responsible for verifying material and component specifications, conduct Engineering Reviews of safety related parts and equipment purchases, perform Commercial Grade Item Dedication for safety related use, prepare and approve Material Evaluation Reports/Material Procurement Plans and Specifications for spare parts and components.

National Thermal Power Corporation New Delhi, India

11/81 - 4/83

Mr. Mathew worked in the capacity as a controller for the Boiler, Turbine and Generator control panels in the control room of a 210 MW Fossil Power Plant Unit at a 720 MW Station. Mr. Mathew was responsible for unit cold, warm and hot start-ups, synchronizing unit to the grid, normal operations, maintaining control room logs, equipment tag outs for maintenance and returning them to service, running surveillance tests, and planned and emergency unit shut-downs. In addition, Mr.Mathew was a member of the task force for improving plant performance and capacity factor utilitzation.

JULIE A. KAHN

EDUCATION

B.S.: Electrical Engineering, University of New Mexico (December 1988)

SECURITY CLEARANCES

Ms. Kahn holds active U.S. Department of Defense (DoD) "Secret" and U.S. Department of Energy (DOE) "Q" clearances.

WORK SUMMARY

Ms. Kahn is an Electrical Engineer in Science Applications International Corporation's (SAIC's) Integrated Safety Assessment Division and specializes in the area of system safety and reliability analysis. She serves as the lead reviewer in seismic evaluation of plant circuitry for Individual Plant Examinations of External Events (IPEEs) and Unresolved Safety Issue (USI) A-46 studies. Her work also includes safety code compliance, having recently completed an effort to review the compliance of a large Sandia National Laboratories (SNL) research and development facility with the safety-related criteria in DOE Order 6430.1A. Additionally, Ms. Kahn has served as a lead engineer in a number of space system survivability test and evaluation studies, with an emphasis on space nuclear power.

PROFESSIONAL EXPERIENCE

Science Applications International Corporation, 1989 to Present

System Safety/Probabilistic Risk Assessment

Ms. Kahn serves as the lead analyst in nuclear plant relay evaluations in addressing USI A-46 and IPEEE seismic event requirements for Fort Calhoun Nuclear Station, Kewanee Nuclear Station, Arkansas Units 1 and 2, and Point Beach Nuclear Station. Her training includes the Safe Shutdown Equipment Selection and Relay Screening and Evaluation Course sponsored by the Seismic Qualification Utility Group (SQUG), the Electric Power Research Institute (EPRI), and the Nuclear Management and Resources Council (NUMARC).

Ms. Kahn recently completed a large-scale effort to verify the code compliance of SNL's Microelectronics Development Laboratory (ADL) with DOE Order 6430.1A. The work entailed examination of a wide variety of systems at the facility (including electrical; heating, ventilating, and air conditioning (HVAC); structural; and mechanical systems), as well as a number of safety systems. The safety-related details of these systems were compared to a large number of highly specific criteria from DOE Order 6430.1A. This also involved extensive research of related industrial codes and standards. In a related effort, Ms. Kahn contributed to the development of a data base designed to automate future comparisons to DOE Order 6430.1A criteria for increased efficiency and thoroughness.

Her experience also includes system modeling, fault tree analysis, and system level reliability analyses for a number of system safety studies. She developed the fault tree model for the Los Alamos National Laboratory (LANL) Chemistry and Metallurgy Research (CMR) Building's fire protection/suppression system. Ms. Kahn also reviewed and updated the Grand Gulf Nuclear Station Individual Plant Examination (IPE) documentation, including fault tree models and basic event data.

Ms. Kahn has also performed system analysis for addressing potential Anticipated Transient Without Scram (ATWS) instability issues at the River Bend Station. Additionally, she has provided fault tree modeling and quantification support for the Cooper Nuclear Station IPE. She has also conducted accident sequence level quantification using SAIC's probabilistic risk assessment (PRA) software for projects such as the River Bend work and the Savannah River PRA.

Space Nuclear Power

Ms. Kahn was one of SAIC's prime contributors to the SP-100 space nuclear power system survivability program, funded by DOE. Her contributions included participation in the SP-100 Survivability Working Group, identification of system technology issues, direction of data infusion from related programs, and addressing issues regarding the evolution of the system threat document. She also authored several papers for the Strategic Defense Initiative Office (SDIO), the U.S. Air Force, and DOE, promoting an innovative approach combining traditional survivability techniques and PRA for the survivability/availability analysis of space nuclear power systems.

Survivability

Previously, Ms. Kahn worked for SAIC's Survivability Technology Division and was responsible for completing the SP-100 survivability assessment report for LANL (administering the effort for DOE). This work covered threat descriptions, background development, methodology development, and survivability/hardening analyses.

In the area of nuclear survivability of electronics, Ms. Kahn assisted in compiling the Integrated Test Recommendations for Lockheed's Long-Wave Infrared Advanced Technology Seeker (LATS). She also completed the component level nuclear survivability assessment for the Space-Based Interceptor (SBI)/GUNRACK (Air Force Brilliant Pebbles concept) system, which also uses infrared sensor technology. These efforts are supported by Ms. Kahn's authorship of a comprehensive background report on infrared sensor system technologies and survivability in support of the Air Force Weapons Laboratory (now Phillips Laboratory).

Ms. Kahn's education in this area includes a University of California, Los Angeles, short course entitled "Radiation Hardening of Electronic Systems." She has also completed an Advanced Technology International course on sensor systems.

Ford Utilities, November 1984 to August 1988

Ms. Kahn was a computer operator and programmer for an automated energy control, management, and conservation division. In addition to providing software and hardware support, she controlled, monitored, and reported heating and cooling system performance.

AWARDS, HONORS, AND PROFESSIONAL AFFILIATIONS

- · Member, SAIC Technical Environment Committee
- · Member, Institute of Electrical and Electronic Engineers (IEEE)
- · Member, Society of Women Engineers (SWE) Central New Mexico Section
- · Recipient, SWE Certificate of Achievement "in recognition of excellence" (1988)
- Outstanding Senior Electrical Engineering Student (1987-1988)

PUBLICATIONS

- Kahn, J. A., Relay Evaluation Report, prepared for Omaha Public Power District/Fort Calhoun Station, SAIC, December 1993.
- Kryska, P., J. A. Kahn, et al., Safety Assessment for the Microelectronics Development Laboratory, prepared for Sandia National Laboratories, Albuquerque, New Mexico, July 1993.
- Kahn, J. A., L. Guillebaud, and J. LaChance, River Bend Station PRA Analysis in Support of the ATWS Instability Issue, prepared for Gulf States Utilities, SAIC, March 1992.
- LaChance, J., J. A. Kahn, and A. Kolaczkowski, Comparison of the Cooper Nuclear Station IPE with the Sandia National Laboratories DHR Analysis, draft report prepared for Nebraska Public Power District, SAIC, March 1992.
- Kahn, J. A., SP-100 Survivability Technology (SST) Database Development—Phase I, prepared for Los Alamos National Laboratory and the U.S. Department of Energy, SAIC, December 1991.
- Kahn, J. A., Advanced Sensor System IR Focal Plane Arrays: Current Technology Overview, prepared for the Air Force Weapons Laboratory, SAIC, September 1990.
- Kahn, J. A., and K. A. Williams, A Comprehensive Approach to the Survivability Assessment of SP-100, presented at the 7th Symposium on Space Nuclear Power Systems, January 7-11, 1990.
- Kahn, J. A., K. A. Williams, and C. F. Bloemker, SP-100 Survivability: An Overview Using a Comprehensive Approach, prepared for Los Alamos National Laboratory and the U.S. Department of Energy, SAIC, January 1990.



PROFESSIONAL EXPERIENCE

Mr. Reichle has over 19 years of power plant engineering, design, maintenance, and operations experience. As Technical Manager in the Engineering Division of ABB Impell's Boston office he is currently assigned as the Project Engineer on the NRC's Unresolved Safety Issue (USI) A-46 project for Northeast Utilities. This unresolved safety issue deals with the seismic adequacy of equipment in older operating plants.

Mr. Reichle has prepared Design Baseline Documents (DBDs) for the feedwater systems at the PECO Peach Bottom and Limerick nuclear plants. This project consisted of conducting the necessary research to identify the boundaries, interfaces and requirements of the individual systems. The documents also describe how each of the systems satisfies their resign input and output requirements, and what modifications have impacted the system's original design basis. During this project assignment, Mr. Reichle also participated in the Appendix R update project for the Limerick Nuclear Station by reviewing the new and updated shutdown methods identified for each fire area, and assisting in the resolution of shutdown concerns identified during the review process.

Previously, Mr. Reichle served as the Project Manager for the Appendix R Compliance Program and Fire Barrier Upgrade Projects at the Pilgrim Station. Mr. Reichle managed these programs for over two years, with tasks including the development of Appendix R shutdown analyses, the development of associated operating procedures, the review and upgrade of all Appendix R fire barriers, and the design of various electrical and mechanical system modifications. This project was staffed with approximately 25 engineers and technicians.

Mr. Reichle served as the Project Engineer, and managed the engineering resources, during the update of the J. A. FitzPatrick Fire Protection Reference Manual, and supported the update of the Fire Protection Program Manual for Indian Point Unit 3. Both of these projects involved the update of fire protection and Appendix R programs to include the changes made by modifications, and the preparation of a new manual that included both programs.

Mr. Reichle also served as the Project Engineer for an Appendix R project for Northeast Utilities Millstone 3 Nuclear Power Plant. This project consisted of four major tasks: 1) review the plant's safe shutdown methodology and equipment list to ensure completeness 2) identify which components might be affected for each fire area, 3) identify the worst case fire scenario (in terms of equipment loss) for each fire area, and 4) identify and prioritize the operator actions that need to be taken in each fire area.



Page Two

EXPERIENCE (Cont'd)

Prior to this assignment, Mr. Reichle performed a design baseline verification of the Emergency Operating Procedures (EOP) for Nine Mile Point 1, and determined the impact of operating safety related systems with normally open manual valves at the system's interface with non-safety related portions of the system. His responsibilities on these projects included the preparation of verification packages to document design basis of input parameters to EOP flowcharts, preparation of various design calculations, and preparation of a report on the boundary valves. Also included within this project was a review of the plant's Service Water System and the effect of increased lake water temperature.

Mr. Reichle has also served as a technical specialist in support of triennial fire protection audits at the H.B. Robinson, Brunswick and Shearon Harris nuclear power plants. During these audits, he served as the Systems Engineer reviewing station operating practices, programs and procedures used to ensure safe shutdown of the plants in the event of a fire. Mr. Reichle has also served as the Project Manager for the single failure analysis of the ECCS sub-systems, and their support systems, for the Connecticut Yankee plant. This project included the identification and review of potential equipment failures for each of the systems, including mechanical, electrical and instrumentation, during injection and recirculation modes in response to a LOCA.

In conjunction with the above single-failure analyses, a review of the CY surveillance procedures was performed. This review was conducted to ensure that all ECCS redundant or required components were included in the appropriate procedure, and that proper surveillances were being performed to assure operability of the systems.

Prior to joining ABB Impell, Mr. Reichle was a Senior Engineer at Cygna Energy Services and assisted in the preparation of the Appendix "R" review for various NUSCo generating stations. As a member of this project, he was assigned tasks such as developing safe shutdown scenarios and identifying equipment which needed to be protected, establishing safe shutdown fire areas, performing walkdowns of fire areas to verify the adequacy of existing barriers (including doors, dampers, and penetration seals), identifying barrier deficiencies, preparing justifications for exemption requests, and making recommendations for upgrading fire barriers or their penetrations to the required fire resistance rating.



Page Three

EXPERIENCE (Cont'd)

Mr. Reichle also participated in preparing a conceptual design of a seismic hot shutdown system for the Yankee Rowe Nuclear Plant. This project reviewed the feasibility of providing a standby, portable pumping system made up of standard commercial grade components, that would deliver water to the steam generators and/or main coolant system in the event no other method was available. Included in this project was the identification system demands, sizing of components, identification of water sources, and providing an estimated cost to install the system.

In a previous assignment, Mr. Reichle served as Lead Engineer for the development of surveillance and maintenance procedures for the Shoreham Power Station. His responsibilities included the identification of maintenance and inspection requirements for all mechanical balance of plant equipment. He established the parts requirements, special tools, rigging and handling instructions for those procedures. Mr. Reichle also supervised additional tasks for the Shoreham Station including:

- Development of Fire Protection Program Description and Associated procedures
- Development of Maintenance Program Description
- NUREG-0612 Heavy Loads Analysis
- Rigging and Handling Procedures for NUREG-0612 Heavy Loads
- Preparation of Refueling Procedures
- Design, Analysis, and Fabrication of Fuel Handling and Reactor Head Strongback

Before joining Cygna, Mr. Reichle held the position of Lead Applications Engineer for the Jamesbury Corp., a manufacturer of fluid control equipment. His responsibilities included supervising technical analysis, sizing equipment, selecting material and accessories, and resolving field installation and operational problems of motor-operated valves.

Mr. Reichle was responsible for sizing valve actuators (both pneumatic and electric) given the system operating conditions. For motor operated valves this task included determining the necessary torque output, then selecting the appropriate gear train configuration and motor size. For nuclear projects, motor sizing included considerations of both normal and degraded voltage conditions.



Page Four

EXPERIENCE (Cont'd)

Earlier in his career, Mr. Reichle worked with Stone & Webster Engineering Corporation where he was the responsible engineer for liquid and solid radioactive waste systems. Responsibilities associated with this position included: development of system design and flow diagrams, engineering, selection of equipment and layout, preparation of equipment specifications and purchase requisitions. Other duties included review of system piping diagrams, and resolution of field installation problems. Mr. Reichle also assisted in the development of a spare parts program and database for Millstone Unit 3.

In his initial assignment at Stone and Webster, Mr. Reichle assisted in the preparation of a system operations manual for Connecticut Yankee. This work included the writing of system descriptions and operating procedures for the waste evaporator degasifier, aerated drains, and steam generator blowoff.

Before Mr. Reichle's employment with Stone & Webster, he spent six years in the U. S. Navy Nuclear Submarine Program where he qualified as an Engineering Watch Supervisor.

EDUCATION

B.S., Mechanical Engineering, Central New England College

A.S., Mechanical Engineering, Worcester Junior College

U.S. Navy Nuclear Power School and Prototype Training

Graduate Work, Fire Protection Engineering, Worcester Polytechnic Institute

PROFESSIONAL ACTIVITIES

Member, American Society of Mechanical Engineers

FORT CALHOUN STATION USI A-46 SAFE SHUTDOWN EQUIPMENT LIST (SSEL) REPORT

Prepared by

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1.0 INTRODUCTION

The SQUG Generic Implementation Procedure (GIP, Reference 5.1) for Seismic Verification of Nuclear Plant Equipment provides guidance for identifying the preferred paths to be used in accomplishing the following safe shutdown functions subsequent to a safe shutdown earthquake (SSE):

Reactor Reactivity Control Reactor Coolant Pressure Control Reactor Coolant Inventory Control Decay Heat Removal

The purpose of this report is to identify the preferred safe shutdown paths for the four safe shutdown functions, identify the auxiliary paths required to support the preferred paths, and then identify the corresponding equipment and instrumentation. Reference 5.2 provides the documentation for the review of the various alternate paths and selection of the preferred path for each of the four safe shutdown functions.

2.0 SCOPE / METHOD

Our analysis is bounded by the guidelines stated in the GIP, as applicable. For the purposes of this analysis, safe shutdown is hot shutdown as defined in Fort Calhoun's Technical Specifications.

Using the guidelines provided in the GIP, and upon review of plant specific input such as the OPPD operating procedures, P&IDs, and the Appendix R Report, ABB Impell has identified the preferred safe shutdown paths and the associated auxiliary systems which can be used to accomplish the four safe shutdown functions identified in Section 1.0. ABB Impell Project Instruction (Reference 5.3) documents the methodology used. OPPD Operating Department reviewed the preferred safe shutdown paths and the associated auxiliary systems and provided comments (References 5.60, 5.61, & 5.62). These comments were incorporated into this report where applicable. Also, the preferred safe shutdown paths and the associated auxiliary systems were compared with the existing Appendix R analysis to ensure consistency (Reference 5.55).

3.0 ASSUMPTIONS / LIMITATIONS

3.1 GENERAL

- 3.1.1 Offsite power may not be available for 72 hours following the SSE.
- 3.1.2 No other extraordinary events are postulated. (i.e., LOCA, HELB, fire, etc.)
- 3.1.3 Operator actions which are not addressed with existing procedures will be evaluated for accessibility and time constraints.
- 3.1.4 The equipment to be identified for seismic evaluation will include:

Active mechanical or electrical equipment which operates or changes state to accomplish a safe shutdown function.

Active equipment in systems which supports the operation of the safe shutdown equipment.

Only instrumentation which is absolutely necessary to operate, control and monitor the SSD functions have been identified.

Tanks and heat exchangers used by the SSD equipment or in the SSD path.

- 3.1.5 All electrically operated components whose relays have not been seismically evaluated are assumed to malfunction or spuriously operate during the seismic event. Only those components whose spurious actuation would affect the ability of the safe shutdown path to perform its intended function are required to be identified.
- 3.1.6 All systems are maintained operable in accordance with the Technical Specifications.
- 3.1.7 For this analysis, the following criteria have been used in selecting and analyzing system boundary valves.
 - 3.1.7.1 For normally open valves which must close to perform the boundary function, two valves in series are required. Both valves are taken to be active components.

- 3.1.7.2 Normally closed valves which must remain closed to perform the boundary function are considered passive for this analysis and no seismic review is required. However, for these valves it is necessary to consider the impact of spurious operation on the success path; therefore, relay screening will be performed for these valves.
- 3.1.7.3 It is assumed that relief valves which serve as boundary valves will not be challenged during the plant shutdown and therefore will be able to provide an adequate system boundary.
- 3.1.7.4 In cases where the position of the boundary valve is not important (i.e., the valve can be either opened or closed) neither a seismic review nor a relay review are required. For these cases the valve will be included in the SSEL and the justification will be identified in the notes column.
- 3.1.8 A review of the ventilation requirements for areas in the plant outside the Containment and Control Room was performed to identify those systems which might need to be included on the SSEL. The result of this review is documented in Reference 5.73. The calculation concluded that the heat loads in the various spaces are not sufficient to raise the temperature in any room to a point where the operability of A-46 equipment will be effected.

- 4.0 RESULTS
- 4.1 Shutdown Functions
- 4.1.1 Reactivity Control

System Path

The preferred path for reactivity control is shown on Figure 1. The initial method for reactivity control is by insertion of the control element assemblies (CEAs). The CEAs will free fall into the core when the magnetic clutch holding coils become deenergized following a manual or automatic reactor trip. The CEA system is independently capable of making the core subcritical from a hot operating condition. (Reference 5.7)

In addition to the reactivity control by the CEA system, boron injection will be necessary during the 72 hours that the plant is required to remain in hot shutdown to compensate for the positive reactivity insertion from xenon burn out. Also, a loss of offside power (LOOP) will cause the main steam system to be isolated from the condenser. This will result in the lifting of the main steam relief valves (see Section 4.1.4). Due to the lack of operator control of these valves, the Reactor Coolant System (RCS) may cool down below the hot shutdown minimum temperature of 515 °F. If this transient causes a temperature reduction of 100 °F or more below the minimum hot shutdown temperature of 515 °F, additional negative reactivity from boron injection will be required (Reference 5.7).

Therefore, the preferred reactivity control method is provided by CEA insertion along with boron injection by the Chemical and Volume Control System (CVCS). The CVCS is capable of making the core subcritical from a hot operating condition and holding it in the hot shutdown condition (Reference 5.7). The preferred boron injection flow path is from the concentrated boric acid storage tanks (BASTs) to the suction of the charging pumps via the gravity feed valves, HCV-258 and HCV-265. The Fort Calhoun Station Technical Specifications assure that the minimum volume of borated water necessary to bring the plant to cold shutdown from a hot operating condition will be available in the BASTs (Reference 5.5). This minimum required volume can be either the combined volume of the two BASTs or the volume contained in a single BAST. The minimum required volume of boric acid solution in the BASTs is a function of the boron concentration in the BASTs and the boron concentration in the Safety Injection and Refueling Water Tank (SIRWT). If the minimum required BAST volume is split between the two BASTs, then both gravity feed valves would be required to open. The gravity feed valves HCV-258 and HCV-265 receive emergency power and are controlled remotely from the control

room (Reference 5.49). If one of the gravity feed valves fails to open, an operator would be required to manually open the valve. The discharge path from the charging pumps will be through the normal charging system to RCS loops 1A and 2A cold leg injection points. Refer to Section 4.1.3 for the discussion on inventory control and the impact of injecting borated water into the Reactor Coolant System.

Instrumentation

CEA position indication from the QSPDS will be necessary to confirm control rod position. Reactivity is monitored by the neutron flux process variable. The wide range logarithmic channels will be used. These instruments provide indication of reactor power from source range to above 100% full power (Reference 5.4).

Boundaries

There are no branch paths that will prevent the Chemical and Volume Control System (CVCS) from fulfilling its intended reactivity control function. The branch paths that are bounded with normally closed manual valves (e.g., vent and drain valves, test taps, sample lines, system cross connects, etc.) will not affect the system function because the valves are not active. The two branch paths, charging to safety injection header and boric acid pumps discharge to charging pumps suction, contain normally closed valves HCV-308/HCV-2988 and HCV-268, respectively. A spurious actuation of valve HCV-268 would only provide redundant boric acid flow to the suction of the charging pumps. Spurious actuation of valves HCV-308/HCV-2988 would not affect the flow because the loop injection valves downstream remain closed (Reference 5.46). In addition, the high pressure safety injection pumps are protected from over pressurization by check valve SI-323 in the safety injection pump discharge header.

The letdown branch path has redundant air operated valves that fail closed (Reference 5.4), therefore this path would not affect the ability of the CVCS to maintain reactivity control. The branch line from the Volume Control Tank (VCT) to the suction of the charging pumps contains valve LCV-218-2. This valve receives emergency power (Reference 5.49) and would require closure from the control board to isolate the VCT from the boric acid injection path if the VCT is operating at a higher pressure than the charging pump suction path from the BASTs. If the valve fails to close, an operator may be required to manually close the valve (Reference 5.4).

Operator Action

An operator will be required to manually close LCV-218-2 if the valve fails to close on demand or opens on a spurious actuation signal. An operator will be required to manually open HCV-258 or HCV-265 if either valve fails to open on demand. The selection of this success path is consistent with success paths RC-1 and RC-2 presently addressed in EOP-20.

Auxiliary Systems

The following auxiliary systems are required to support the operation of the CVCS:

Component Cooling (see Section 4.2.1) is required to provide cooling to the charging pumps' lube oil coolers.

Emergency Diesels (see Section 4.2.3) provide power to the charging pumps and other safety related CVCS components.

Raw Water (see Section 4.2.2) is required to provide cooling to the component cooling water system.

AC and DC Electrical Power Distribution System (see Section 4.2.7) is required to provide power to all required components.

Control Room HVAC (see Section 4.2.5) is required to support the operation of the control room instrumentation.

Auxiliary Building HVAC (see Section 4.2.9) is required to support the operation of components.

4.1.2 Pressure Control

System Path

The preferred path for pressure control is shown on Figure 2. Satisfactory resolution of the pressure control function requires a method to reduce Reactor Coolant System (RCS) pressure and a method to increase RCS pressure.

Immediately following the seismic event and the reactor trip, reactor decay heat will be significant. A method to reduce RCS pressure will be required. The preferred method of pressure reduction is pressurizer spray via the auxiliary spray header. This path requires the charging pumps to supply water to the charging header. A portion

of the flow from the charging header will then be routed through the auxiliary spray valve, HCV-249 or HCV-240, to the auxiliary spray header. The auxiliary spray header will provide flow to the pressurizer spray nozzle. To minimize operator action, the preferred water supply for the charging pumps is from the BASTs using the path as described in Section 4.1.1.

Solenoid operated valve (SOV) HCV-249 and air operated valve (AOV) HCV-240 provide redundant flow paths for auxiliary spray. HCV-240 fails closed on a loss of offside power due to the loss of instrument air but is equipped with a safety related air accumulator tank which provides compressed air at a pressure required to operate the valve after a loss of instrument air (Reference 5.4). With the tank, the valve is capable of one cycle for 25 hours (Reference 5.10). AOP-17 provides direction on the operation of this valve with loss of instrument air. Operation of the valve after this period would require an operator to open the valve. HCV-249 would remain operable with a loss of offside power because it is a DC powered valve.

During the 72 hours that the reactor is required to remain in hot shutdown, it will be necessary to increase RCS pressure to stay within the pressure / temperature limits. The pressurizer heaters will be used to increase RCS pressure. The preferred path will use Bank 1 and Bank 4 back-up heaters. These heaters each receive emergency power and each have 3 heater groups where each group is rated at 75 kw.

Instrumentation

The process variables required to verify pressure control of the RCS are pressurizer level (Lp), and pressurizer pressure (Pp), and sub cooling margin.

Boundaries

There are no branch paths that will prevent the Chemical and Volume Control System (CVCS) from fulfilling its intended pressure control function. The branch paths that are bounded with normally closed manual valves (e.g., vent and drain valves, test taps, sample lines, system cross connects, etc.) will not affect the system function because the valves are not active. The two branch paths, charging to safety injection header and boric acid pumps discharge to charging pumps suction, contain normally closed valves HCV-308/HCV-2988 and HCV-268, respectively. A spurious actuation of valve HCV-268 would only provide redundant boric acid flow to the suction of the charging pumps. Spurious actuation of valves HCV-308/HCV-2988 would not affect the flow because the loop injection valves downstream remain closed (Reference 5.46). In addition, the high pressure safety injection pumps are protected from over pressurization by check valve SI-323 in the safety injection pump discharge header.

The letdown branch path has redundant air operated valves that fail closed (Reference 5.4), therefore this path would not affect RCS pressure control.

The branch line from the Volume Control Tank (VCT) to the suction of the charging pumps contains valve LCV-218-2. This valve receives emergency power (Reference 5.49) and would require closure from the control board to isolate the VCT from the boric acid injection path if the VCT is operating at a higher pressure than the charging pump suction path from the BASTs. If the valve fails to close, an operator may be required to manually close the valve.

Operator Action

The selection of this success path is consistent with success path PC-1 of EOP-20.

Auxiliary Systems

See Section 4.1.1.

4.1.3 Inventory Control

System Path

The preferred safe shutdown path for inventory control is shown on Figure 3. The purpose of the inventory function is to provide a method to supply water to the reactor coolant system (RCS) while minimizing the RCS losses during the 72 hours the plant is in hot shutdown. The preferred path for inventory make up is provided by the CVCS as described in Section 4.1.1 with the addition of the SIRWT to provide a source of make up water to the RCS after the BASTs have been depleted. The charging pumps will initially take suction from the BASTs as defined in Section 4.1.1. After the reactor trips, the charging pumps will be injecting concentrated boric acid solution from the BASTs into the RCS with the letdown path being isolated. The addition of water into the RCS can be accommodated by the shrinkage in the RCS due to a temperature reduction from normal operating TAVE to hot shutdown TAVE plus reactor coolant pump seals seal leak off (Reference 5.4). Hence, a letdown path will not be required. For the duration of the event, to compensate for the large volume lost from seal leak off and other RCS leakage, the suction of the charging pumps must be realigned to the SIRWT by opening valve LCV-218-3. LCV-218-3 receives emergency power (Reference 5.49) and is controlled remotely from the control room. If the valve fails to open or is out of service for maintenance activities, an operator would be required to manually open the valve. The injection flow from the SIRWT will be controlled by cycling the charging pumps as nec ary.

Boundaries

See Section 4.1.1.

Operator Action

In addition to the operator actions identified in Section 4.1.1, an operator may be required to manually open LCV-218-3. Operator action will be required to cycle the charging pumps to accommodate changes in inventory. The selection of this success path is consistent with success path IC-l of EOP-20.

Auxiliary Systems

See Section 4.1.1.

4.1.4 Decay Heat Removal

System Path

The preferred safe shutdown path for Decay Heat Removal is shown on Figure 4. Decay heat will be removed by use of the steam generators. To meet the requirements of decay heat removal, a source of water and a method to remove steam from the steam generators must be available.

Makeup water to the steam generators will be supplied by the auxiliary feed water system. The preferred path is from the auxiliary feed water pumps through valves 1107A/B and/or 1108A/B to the steam generators. The only source of supply water for the auxiliary feed water pump suction is the emergency feed water storage tank (EFWST). The amount of available water in the EFWST is adequate to remove decay heat for only 8 hours (Reference 5.4). Because the EFWST does not contain enough water to maintain the reactor in the hot shutdown condition for the required 72 hours, makeup to the EFWST will be necessary. Makeup to the EFWST will be provided by the Raw Water system (See 4.2.2).

The event will cause the main steam system to be isolated from the condenser; therefore, the preferred method for removing steam from the steam generators is the main steam safety valves. These valves will lift to provide over pressure protection of the steam generators. The lifting valves will allow main steam to be released to the atmosphere thereby removing decay heat from the RCS.

Main Steam relief valves MS-291 and MS-292 are equiped with actuators that could allow for remote manual operation of the valves. However, operation of these

valves is not considered necessary for the A-46 Shutdown method and the accumulators for these valves are not included on the SSEL.

Instrumentation

The process variables required to verify RCS decay heat removal are RCS hot and cold leg temperatures, (Th, Tc), steam generator level (LS/G), steam generator pressure (PR/G), and EFWST level (LEFWST).

Boundaries

The branch paths that are bounded with normally closed manual valves (e.g., vent and drain valves, test taps, sample lines, system cross connects, etc.) will not affect the system function because the valves are not active.

The Main Steam Isolation Valves HCV-1041A & HCV-1042A, do not provide two valves in series for system boundary isolation. These valves are normally open fail closed and are required to be closed in order to satisfy their safe shutdown function. Should these valves fail to close it will be necessary to take operator action to manually close the valve. Manual action is an acceptable means to meet the intent of the single failure criteria of the GIP. In particular, section 3.2.6 of the GIP specifically states the use of operator action to meet the single failure criteria.

Operator Action

Operator action may be required to operate either 1107B or 1108B valves after the local accumulator tank is exhausted.

Operator action will be required to manually close HCV-1041A & HCV-1042A if these valves fail to close. Operator action will be required to align RW connection to the EFWST. This shall be included as part of a recommended modification to the plant configuration (Ref 4.2.2).

The motor driven lube oil pump (LO-39) for the turbine driven auxiliary feedwater pump has neither been included on the SSEL nor evaluated under the A-46 program. Therefore, if the pump should fail to start, the feedwater pump can be started by performing the steps identified in Reference 5.72.

Configuration Changes

A modification to the plant system to align the RW to the EFWST is required as described in section 4.2.2 of this report.

Auxiliary Systems

The following auxiliary systems are required to support the operation of the AFWS:

Emergency Diesels (see Section 4.2.3).

Raw Water (see Section 4.2.2).

AC and DC Electrical Power Distribution System (see Section 4.2.7) will be required to provide power to all required components.

Control Room HVAC (see Section 4.2.5) is required to support the operation of the control room instrumentation.

Auxiliary Building HVAC (see Section 4.2.9) is required to support the operation of components.

4.2 Auxiliary Systems

4.2.1 Component Cooling Water (CCW)

The CCW system is a closed loop system used to transfer heat from various components to the raw water system which discharges to the Missouri river. During normal operations only one pump and two heat exchangers are required to provide cooling to the various components (Reference 5.11). For this analysis, the CCW system is required to provide cooling to the containment air handling units, the control room air conditioning system, the RCP seal coolers, and the charging pump lube oil coolers. The other heat exchangers in the CCW system which are aligned for normal cooling will not impact the overall performance of the system. Pump discharge pressure is required to verify the operation of the system.

Some boundary valves, within the component cooling water system, provide isolation between the various CCW loads. Because this analysis requires only a fraction of the total CCW load, it is not essential that the remaining CCW loads be isolated, thus the position of these valves is not critical. A listing of these valves and the associated CCW loads is as follows. (Reference OPPD file # 41741, composite CCW flow diagram)

HCV-446	RCP 3A lube oil cooler				
HCV-447	RCP 3B lube oil cooler				
HCV-448	RCP 3C lube oil cooler				
HCV-449	RCP 3D lube oil cooler				
HCV-474	LPSI/HPSI/Cont Spray Heat Exchangers				
HCV-484/HCV-485	Shutdown Cooling Heat Exchangers				
TCV-2897A/TCV-2897B	Let Down Heat Exchanger				
HCV-478	Storage Pool Heat Exchanger				
HCV-467B	Detector Well Cooling Coils				
HCV-425B	SI Tank Leakage Coolers				
HCV-2895A/HCV-2895B	Waste Evaporator/Primary Sample Cooler				

The following two heat exchangers can not be isolated:

Sample Heat Exchangers
Gas Compressor Seal Water Heat Exchanger

4.2.2 Raw Water (RW)

The RW system is an auxiliary system required to support the CCW system. Only one of the four RW pumps is required to provide adequate flow when not in shutdown cooling or following a design basis accident (Reference 5.4). The system supplies cooling water to the component cooling heat exchangers via redundant loops. Pump discharge pressure is required to verify the operation of the system.

The RW system will also be used to supply makeup water to the EFWST. The current plant configuration does not have this provision available. A configuration change is recommended as part of this SSEL identification to allow for this provision. This will require that a spool piece be added to the RW header in Room 81. A hose can then be connected to a tie-in valve located on the spool piece. This will allow for operations personnel to refill the EFWST.

It was concluded that the use of the RW system for this purpose was the optimum method to refill the EFWST. This was based on the impact to operations and the cost associated with implementing a modification. This modification to the plant (MR-FC-94-018) is scheduled for completion in 1996.

4.2.3 Diesel Generator (DG)

Two redundant diesel generators are available to supply power to the safe shutdown components on the loss of offsite power. The auxiliary systems required to support the diesel generators are starting air, lube oil, jacket water, fuel oil, air for combustion and cooling.

Each diesel engine has two independent starting air systems that are designed to provide five starts and each has its own completely integral lube oil system requiring no energy sources except the diesel generator itself. The diesel generators both have a 550 gallon engine mounted fuel tank which is gravity fed by its own 300 gallon auxiliary fuel tank. The auxiliary fuel tanks are both supplied from the diesel generator fuel oil storage tank, which has adequate capacity for continuous operation of one DG in excess of 72 hours (Reference 5.63).

The air required for combustion and cooling of the diesel is introduced to the respective diesel generator room through ventilation dampers YCV-871A through YCV-871H.

Since the expected heat loads in the diesel generator room is expected to be low during an A-46 safe shutdown, the need to include the diesel generator room exhaust fans VA-52A and VA-52B has been eliminated.

4.2.4 Containment Cooling

Containment cooling is an auxiliary system required to maintain the containment air temperature within its design limits during a design basis accident. Either air handling and filter unit (VA-15A or 15B) utilizing fans VA-3A or VA-3B respectively can remove the heat lost from piping and equipment within the containment while in hot shutdown. The containment air cooling system is dependent upon component cooling water, which is described in Section 4.2.1, and the Diesel Generators, which are described in section 4.2.3.

The inlet dampers (HCV-724A and HCV-725A) to air handling units VA-15A and VA-15B fail open to the desired position on a loss of air supply.

4.2.5 Control Room Habitability

The design criteria for the control room air-conditioning is that a system failure will not prevent safe shutdown following a seismic event. However, in order to ensure a habitable Control Room for plant operators during a toxic gas release, the air-condition system operating in the recirculation mode has been included on the SSEL. The main

control room air-conditioning system consists of two refrigeration and air handling units with air cooled evaporators. Either unit can be selected for automatic operation if the running unit should fail. During a period of above normal heat load both units can be placed in operation although this is not expected for a A-46 safe shutdown. The two units design and capabilities for connection to emergency power assures that the components in the main control room will not be adversely affected by the loss of either refrigeration or air handling unit (Reference 5.9). The control room air-conditioning system is dependent upon component cooling water, which is described in Section 4.2.1, when the ambient air temperature is below 0° F.

4.2.6 Instrument Air (IA)

The safety related function of the IA system is to provide sufficient stored instrument grade air in local accumulator tanks to permit the operation of safety related pneumatic devices during and following the SSE (Reference 5.10). All other devices that are not required to operate are designed to assume the accident controlling position on loss of air pressure (Reference 5.4). The failure position of valves and operating times following a loss of IA are provided in attachments to AOP-17. Valves that are required to operate to support a specific function are identified in the corresponding section in this report.

4.2.7 AC and DC Electrical Power Distribution

The safety related 4160V buses and their associated 480V components, which includes the 480V MCCs, are redundant and provide power to the necessary safe shutdown equipment (Reference 5.50). The batteries, chargers, inverters and associated safety related instrument and control buses are also redundant and provide power to the necessary safe shutdown equipment (Reference 5.50).

4.2.8 Heat Tracing

Heat Tracing is used in certain pipes and components in the Chemical and Volume Control system, in the Waste Disposal system, the inlet piping to the containment stack radiation monitors, and a portion of the pipe between the condenser and the condensate storage tank. A review of these systems for impact on safe shutdown equipment was performed. No flow paths required heat tracing. Thus, loss of heat tracing will not impact the capability of the plant to achieve safe shutdown.

4.2.9 Auxiliary Building HVAC

The Auxiliary Building HVAC system is designed to provide 100 percent outdoor air to the Auxiliary Building for ventilation and temperature control (Reference 5.65). However, an analysis has been performed (Reference 5.71) that has determined that the maximum expected temperature in all Auxiliary Building room containing safe shutdown equipment. The analysis confirmed that the maximum temperature is below the operability temperature for those components.

Therefore, the SSEL does not contain any Auxiliary Building HVAC components as being necessary to support safe shutdown.

5.0 REFERENCES

- 5.1 "Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Plant Equipment", Revision 2, February 1992 (corrected February 14, 1992).
- 5.2 ABB Impell Report 0139-00045.004-01, "Validation of Preferred Safe Shutdown Path for Fort Calhoun", Revision 1, March 5, 1993.
- 5.3 ABB Impell Project Instruction PI-USIA46-04, Revision 2, March 5, 1993.
- 5.4 Fort Calhoun Updated Safety Analysis Report, (sections 9.2.3, 9.12.2).
- 5.5 Fort Calhoun Technical Specifications.
- 5.6 Fort Calhoun Appendix R Report.
- 5.7 Fort Calhoun Design Basis Document SDBD-CH-108, "Chemical Volume and Control System", Revision 3, June 1992 (Section 5.1.6).
- 5.8 Fort Calnoun Design Basis Document SDBD-FW-AFW-117, "Auxiliary Feedwater", Revision 7, September 1992.
- 5.9 Fort Calhoun Design Basis Document SDBD-VA-CR-140, "Control Room Habitability", Revision 2, May 1992.
- 5.10 Fort Calhoun Design Basis Document SDBD-CA-IA-105, "Instrument Air", Revision 5, July 1992.
- 5.11 Fort Calhoun Design Basis Document SDBD-AC-CCW-100, "Component Cooling Water", Revision 4, May 1992.
- 5.12 Fort Calhoun Design Basis Document SDBD-DG-112, "Emergency Diesel Generators", Revision 5, July 1992.
- 5.13 Fort Calhoun Abnormal Operating Procedure AOP-30, "Emergency Fill of Emergency Feedwater Storage Tank", Revision 0.
- 5.14 Fort Calhoun Abnormal Operating Procedure AOP-03, "Emergency Boration", Revision 0.
- 5.15 Fort Californ Abnormal Operating Procedure AOP-17, "Loss of Instrument Air", Revision, 6.
- 5.16 Fort Calhour Emergency Operating Procedure EOP-00, "Standard Post Trip Actions", Revision 1.
- 5.17 Fort Calhoun Emergency Operating Procedure EOP-20, "Functional Recovery", Revision 0.
- 5.18 Fort Calhoun Emergency Operating Procedure EOP-02, "Loss of Off-Site Power / Loss of Forced Circulation", Revision 0.
- 5.19 Fort Calhour P&ID 11405-M-l, sh 1, rev 65, Containment HVAC.
- 5.20 Fort Calhoun P&ID 11405-M-10, sh 1, rev 60, Auxiliary Component Cooling.
- 5.21 Fort Calhoun P&ID 11405-M-10, sh 2, rev 1, Auxiliary Component Cooling.
- 5.22 Fort Calhoun P&ID 11405-M-10, sh 3, rev 3, Auxiliary Component Cooling.
- 5.23 Fort Calhoun P&ID 11405-M-12, sh 1, rev 49, Primary Plant Sampling.
- 5.24 Fort Calhour P&ID 11405-M-40, sh 1, rev 27, Auxiliary Component Cooling.
- 5.25 Fort Calhoun P&ID 11405-M-40 sh 2, rev 20, Auxiliary Componen Cooling.
- 5.26 Fort Calhoun P&ID 11405-M-100, rev 51, Raw Water.

REFERENCES (Continued)

- 5.27 Fort Calhoun P&ID 11405-M-119, rev 12, CEDM Auxiliary Cooling.
- 5.28 Fort Calhoun P&ID 11405-M-252, sh 1, rev 70, Steam Flow
- 5.29 Fort Calhoun P&ID 11405-M-253, sh 1, rev 80, SG Feedwater & Slowdown.
- 5.30 Fort Calhoun P&ID 11405-M-254, sh 2, rev 11, SG Condensate.
- 5.31 Fort Calhoun P&ID 11405-M-253, sh 4, rev 13, SG Feedwater & Slowdown.
- 5.32 Fort Calhoun P&ID 11405-M-262, rev 38, Fuel Oil.
- 5.33 Fort Calhoun P&ID B120F03001, sh 1, rev 8, Lube Oil Schematic.
- 5.34 Fort Calhoun P&ID B120F03001, sh 2, rev 17, Lube Oil Schematic.
- 5.35 Fort Calhoun P&ID B120F04002, sh 1, rev 13, Jacket Water Schematic.
- 5.36 Fort Calhoun P&ID B120F04002, sh 2, rev 10, Jacket Water Schematic.
- 5.37 Fort Calhoun P&ID B120F07001, sh 1, rev 23, Air Starting Schematic.
- 5.38 Fort Calhoun P&ID B120F07001, sh 2, rev 11, Air Starting Schematic.
- 5.39 Fort Calhoun P&ID D-4078, rev 11, RC Gas Vent.
- 5.40 Fort Calhoun P&ID E-23866-210-110, sh 1, rev 66, RCS Flow.
- 5.41 Fort Calhoun P&ID E-23866-210-110, sh IA, rev 0, RCS Flow.
- 5.42 Fort Calhoun P&ID E-23866-210-120, sh 1, rev 59, CVCS Flow.
- 5.43 Fort Calhoun F& ID E-23866-210-120, sh IA, rev 2, CVCS Flow.
- 5.44 Fort Calhoun P&ID E-23866-210-121, sh 1, rev 34, CVCS Flow.
- 5.45 Fort Calhoun P&ID E-23866-210-121, sh 2, rev 7, CVCS Flow.
- 5.46 Fort Calhoun P&ID E-23866-210-130, sh 1, rev 61, Safety Injection.
- 5.47 Fort Calhoun P&ID E-23866-210-130, sh 2A, rev 2, Safety Injection.
- 5.48 Fort Calhoun P&ID E-23866-210-130, sh 3, rev 3, Safety Injection.
- 5.49 Fort Calhoun P&ID Figure 8.1-1, rev 72, Simplified One-Line Electrical.
- 5.50 Fort Calhoun Calculation #FC03382, Diesel Generator LOCA Loads.
- 5.51 Fort Calhoun Critical Quality Elements List.
- 5.52 ABB Impell Project Instruction USI A46-05, Revision 2, March 5, 1993.
- 5.53 ABB Impell Project Instruction USI A46-06, Revision 1, March 5, 1993.
- 5.54 ABB Impell Project Instruction USI A46-03, Revision 1, January 15, 1993.
- 5.55 ABB Impell Project Instruction USI A46-12 Revision 0, January 21, 1993.
- 5.56 Fort Calhoun P&ID 11405-M-10, sh Cc 1, Composite CCW Flow.
- 5.57 Fort Calhoun P&ID 11405-M-265, sh 1, rev 53, Misc Drains
- 5.58 Fort Calhoun P&ID 11405-M-40, sh 3, rev 18, CCW Flow.
- 5.59 Fort Calhoun P&ID 11405-M-10, sh 4, rev 0, CCW Flow.
- 5.60 USI A-46 Resolution Meeting Minutes, December 18, 1992
- 5.61 USI A-46 Resolution Meeting Minutes, February 1, 1993
- 5.62 VSI A-46 Resolution Meeting Minutes, June 23, 1993
- 5.63 OPPD Engineering Analysis, EA-FC-92-047, "Diesel Generator Fuel Oil Requirements", Rev 0, August 1992
- 5.64 OPPD Engineering Analysis, EA-FC-93-048, "Evaluation of Seismic Safe Shutdown Function of MCC-4C2", Rev A, June 1993

REFERENCES (Continued)

- 5.65 Fort Calhoun Design Basis Document SDBD-VA-AUX-138, "Auxiliary Building HVAC", Revision 6, August 1993.
- 5.66 Fort Calhoun P&ID E-4144, rev 01, FW-10 Lube Oil Flow Diagram
- 5.67 Fort Calhoun P&ID 11405-M-97, sh 2, rev 2, Misc Heating, Ventilating & Air Condition Flow Diagram
- 5.68 Fort Calhoun P&ID 11405-M-2, sh 1, rev 50, Aux Building Heating & Ventilating Flow Diagram
- 5.69 Fort Calhoun P&ID 11405-M-2, sh 2, rev 54, Aux Building Heating & Ventilating Flow Diagram
- 5.70 Fort Calhoun P&ID 11405-M-2, sh 3, rev 45, Aux Building Heating & Ventilating Flow Diagram
- 5.71 Fort Calhoun Calculation FC06176, Rev. 1, "Room Heatup Due to Loss of HVAC During Station Blackout"
- 5.72 Fort Calhoun Operating Instruction OI-AFW-4, Rev. 12, "Auxiliary Feedwater Startup and System Normal Operation"
- 5.73 Fort Calhoun Calculation FC06237, Rev. 0, "Room Heatup Due to Loss of HVAC"

Figure 1: Preferred Safe Shutdown Paths for Reactivity Control

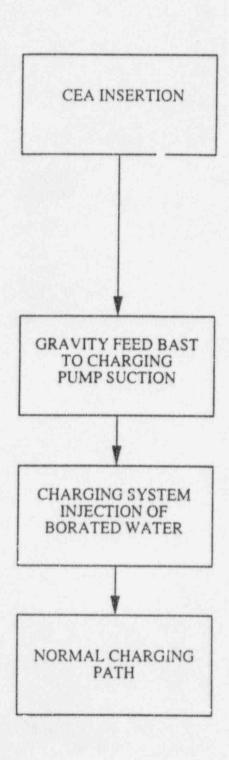


Figure 2: Preferred Safe Shutdown Paths for Pressure Control

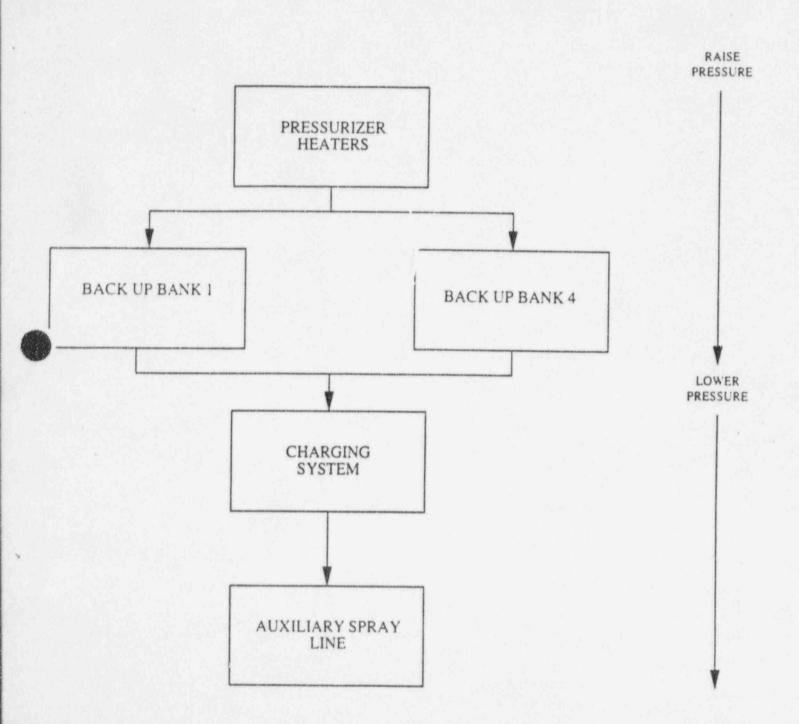


Figure 3: Preferred Safe Shutdown Paths for Inventory Control

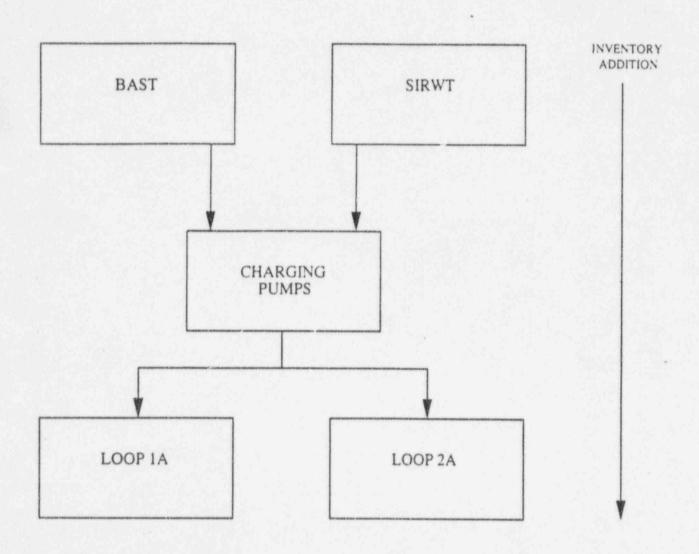
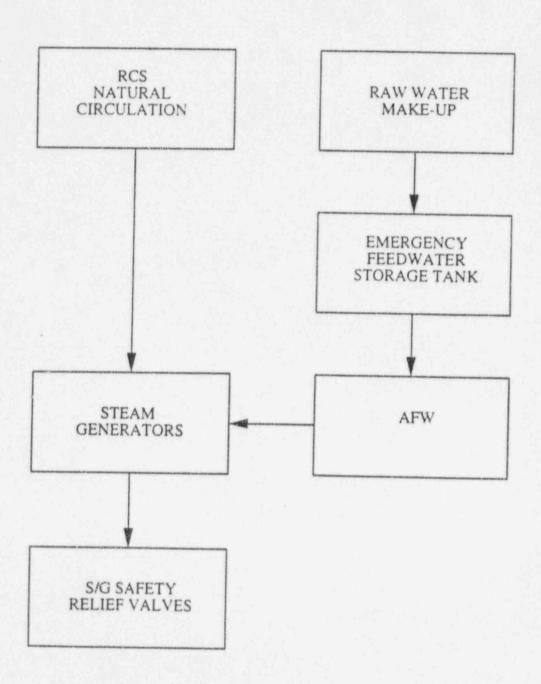


Figure 4: Preferred Safe Shutdown Paths for Decay Heat Removal



ATTACHMENT A

Highlighted Drawings of Preferred Safe Shutdown Paths

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No.	File No.	Drawing No.	P&ID Pg. No.	Drawing Title
A-1	10475	E-23866-210-110, Sh. 1	133	Reactor Coolant System
A-2	10476	E-23866-210-120, Sh. 1	136	CVCS
A-3	10478	E-23866-210-121, Sh. 1	141	CVCS
A-4	55250	E-23866-210-121, Sh. 2	142	CVCS
A-5	55158	E-23866-210-120, Sh. 1A	137	CVCS
A-6	10442	11405-M-12, Sh. 1	30	Primary Plant Sampling
A-7	20663	D-4078	126	Reactor Coolant Gas Vent
A-8	56027	E-23866-210-130, Sh. 3	148	Safety Injection & Cont. Spray
A-9	42107	E-23866-210-110, Sh. 1A	134	Reactor Coolant System
A-10	41901	E-23866-210-130, Sh. 24	146	Safety Injection & Cont. Spray
A-11	48725	B120F03001, Sh. 1	161	Lube Oil System
A-12	17388	B120F04002, Sh. 1	163	Jacket Water
A-13	48724	B120F04002, Sh. 2	164	Jacket Water
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A-17	16303	11405-M-262, Sh. 1	93	Fuel Oil Flow
A-18	10459	11405-M-253, Sh. 1	62	SGBD
A-19	10458	11405-M-252, Sh. 1	58	Steam
A-20	55540	11405-M-254, Sh. 2	68	Condensate
A-21	56510	11405-M-253, Sh. 4	65	SGBD
A-22	:0440	11405-M-10, Sh. 1	25	Aux. Coolant Comp. Cooling
A-23	35368	11405-M-40, Sh. 2	34	Aux. Coolant Comp. Cooling
A-24	55196	11405-M-10, Sh. 3	27	Aux. Coolant Comp. Cooling
A-25	55195	11405-M-10, Sh. 2	26	Aux. Coolant Comp. Cooling
A-26	10456	11405-M-119, Sh. 1	34	Aux. Coolant Comp. Cooling CEDM
A-27	10431	11405-M-1, Sh. 1	168	Containment HVAC
A-28	35367	11405-M-40, Sh. 1	33	Aux. Coolant Comp. Cooling
A-29	10454	11405-M-100, Sh. 1	48	Raw Water
A-30	12234	FIG. 8.1-1	185	Plant Electrical System
A-31	10479	E-23866-210-130, Sh. 1	144	Safety Injection & Cont. Spray
A-32	41741	11405-M-10, Sh. Cov.	24	Composite Aux Coolant CCW
A-33	10471	11405-M-265, Sh. 1	105	Misc. Drains and Chemical Feed
A-34	35369	11405-M-40, Sh. 3	35	Aux Coolant CCW System
A-35	55197	11405-M-10, Sh. 4	28	Aux Coolant CCW System

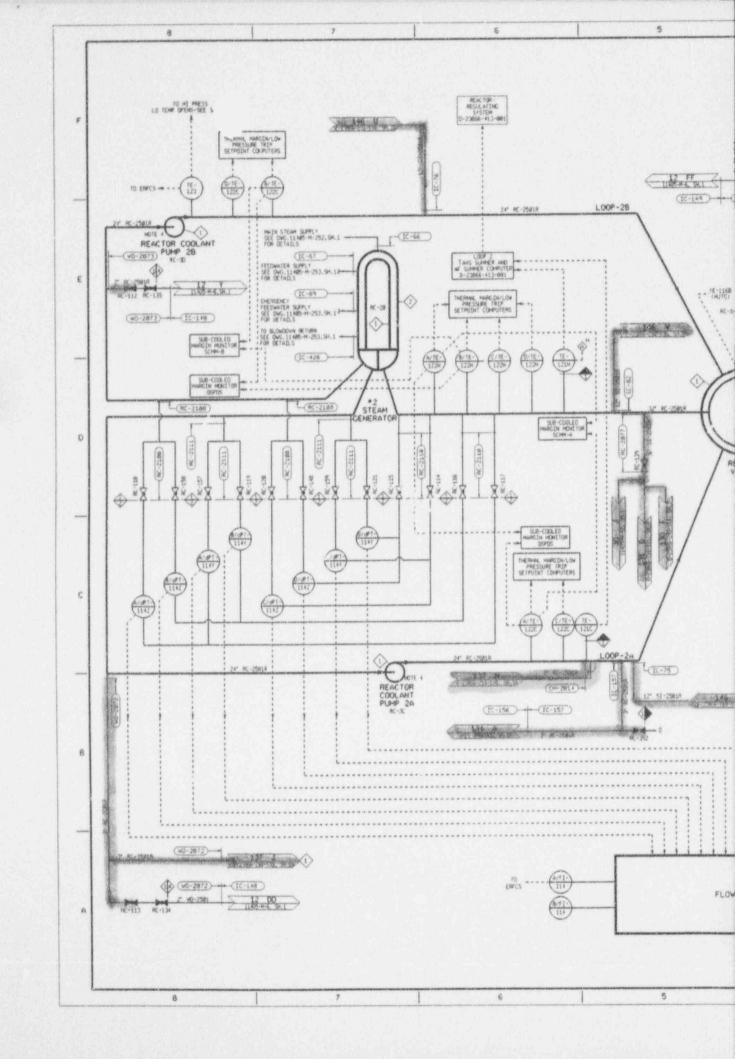
TABLE OF CONTENTS OF ATTACHMENT A (CONT.)

No.	File No.	Drawing No.	P&ID Pg. No.	Drawing Title
A-36	55703	E-4144, Sh. 1	127	FW-10 Lube Oil
A-37	56299	11405-M-97, Sh. 2	174	Misc HVAC
A-38	10435	11405-M-5, Sh. 1	9	Demineralized Water System
A-39	49127	627-D-8053, Sh. 2	117	Model RW 900 SP
A-40	10474	627-D-8053, Sh. 1	116	Model RW 900 SP

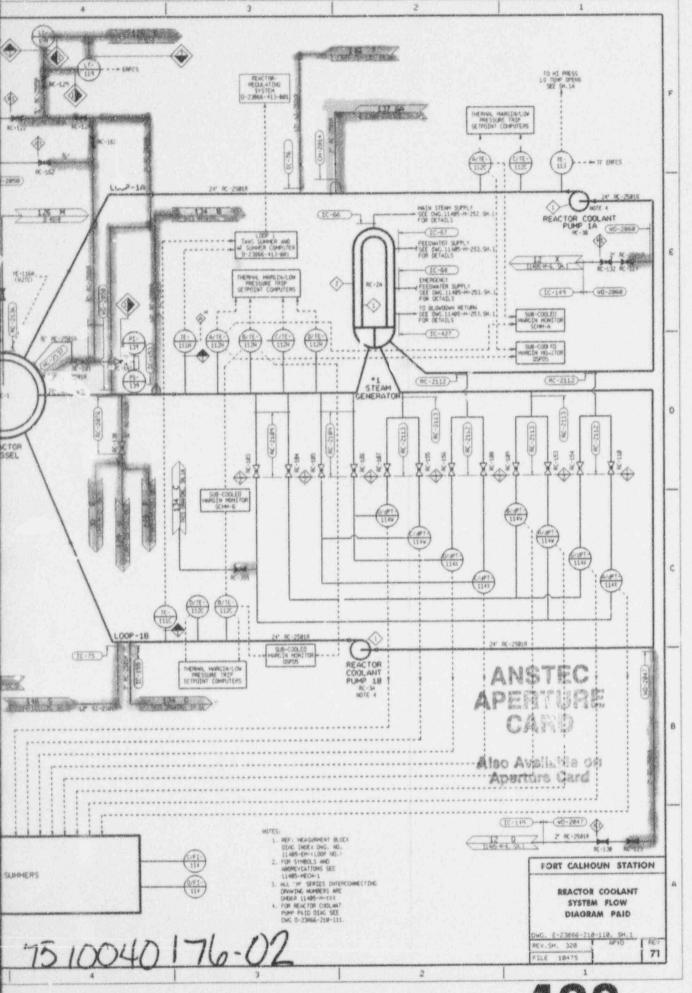
Note: The following color scheme is used to depict safe shutdown functions and auxiliaries:

Blue - Pressure Control
Pink - Reactivity Control
Yellow - Inventory Control
Orange - Temperature Control

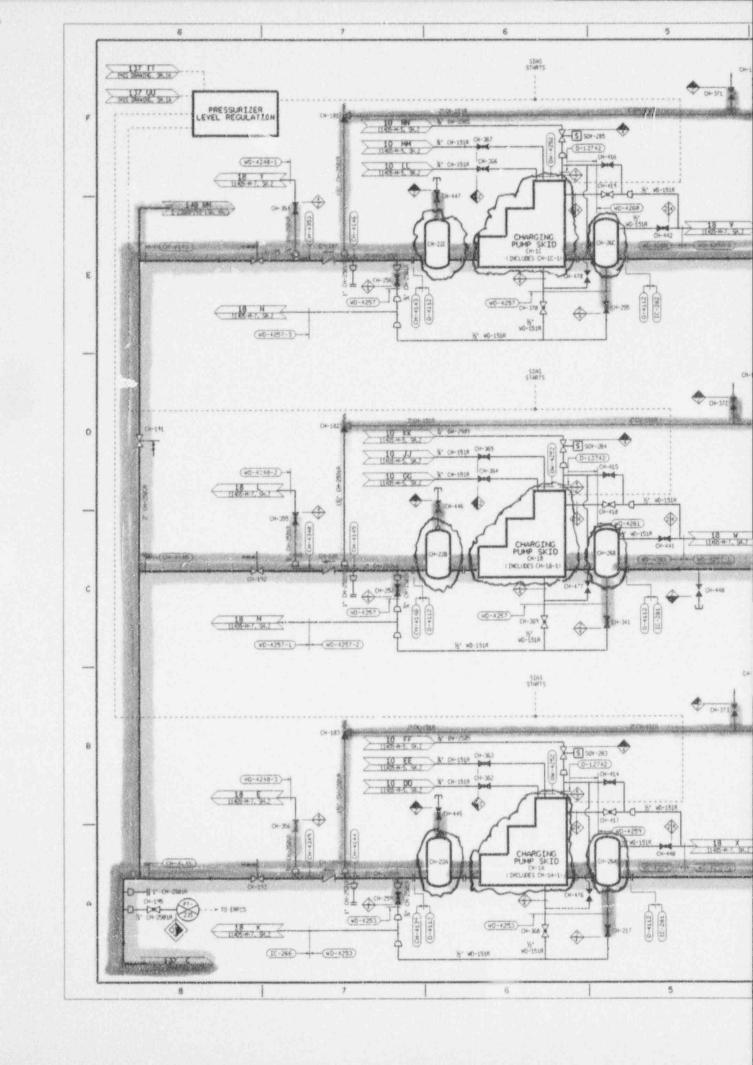
Green - Auxiliaries Violet - Boundaries



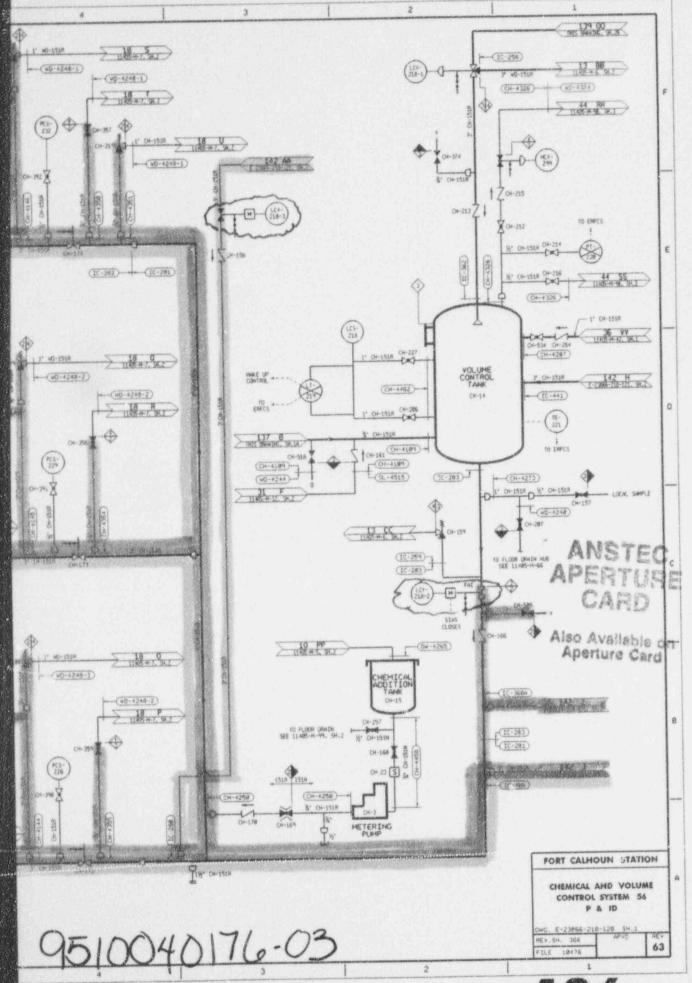
Water Nices



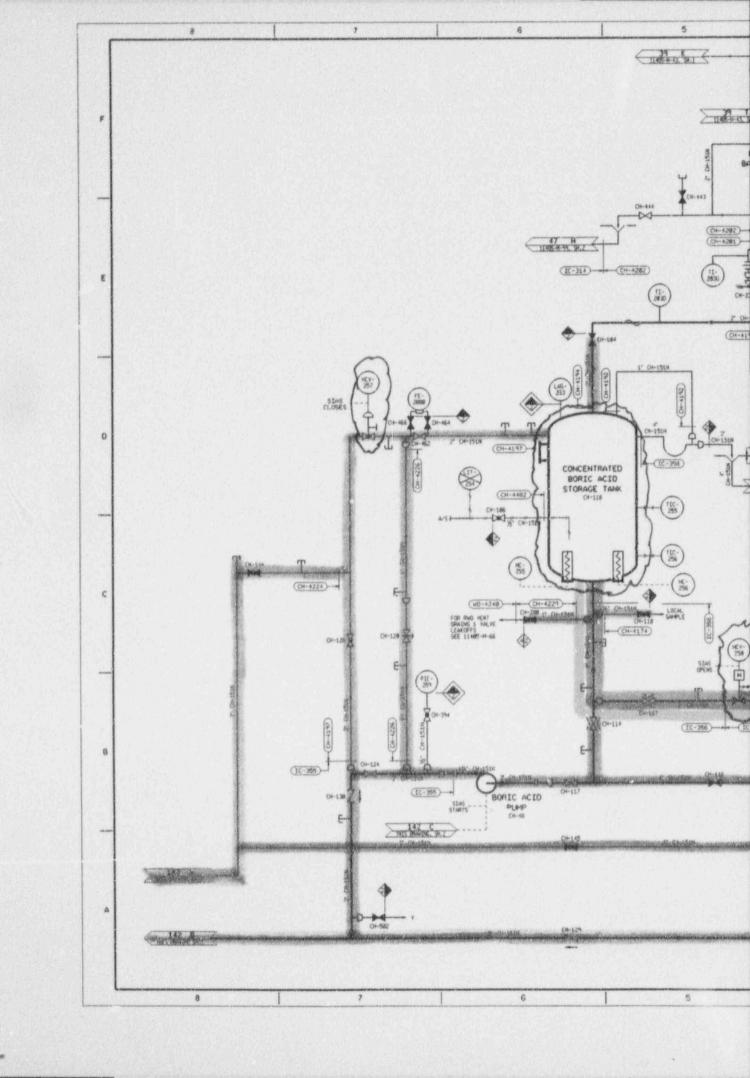
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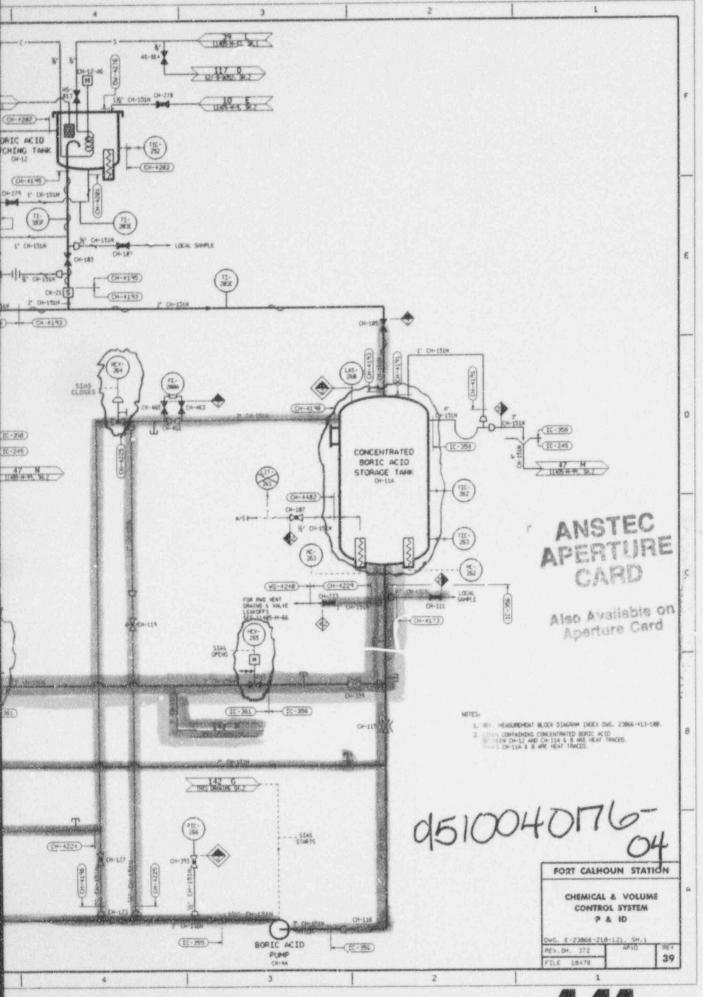


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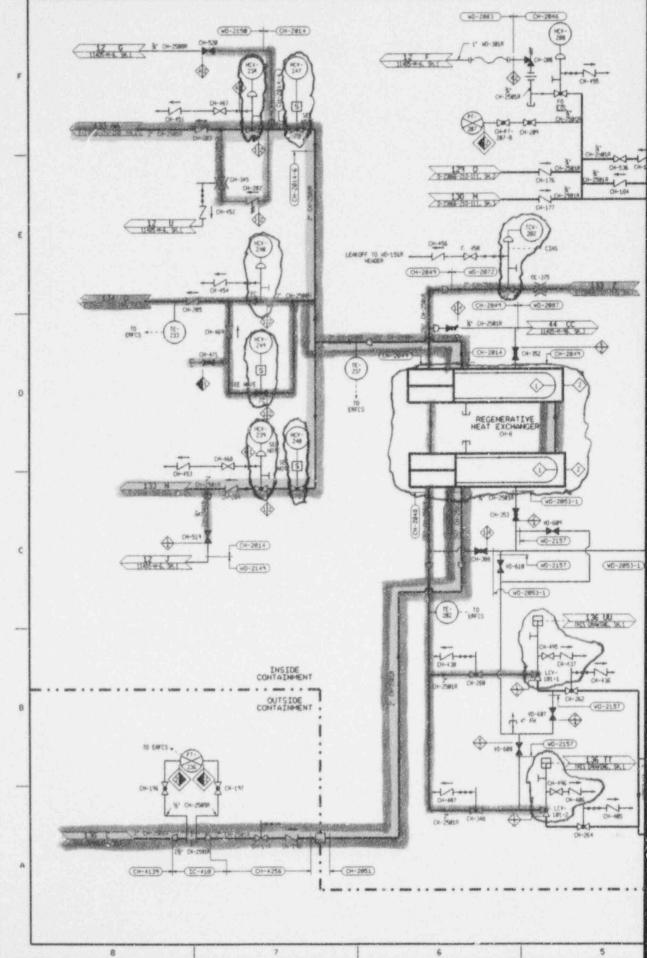


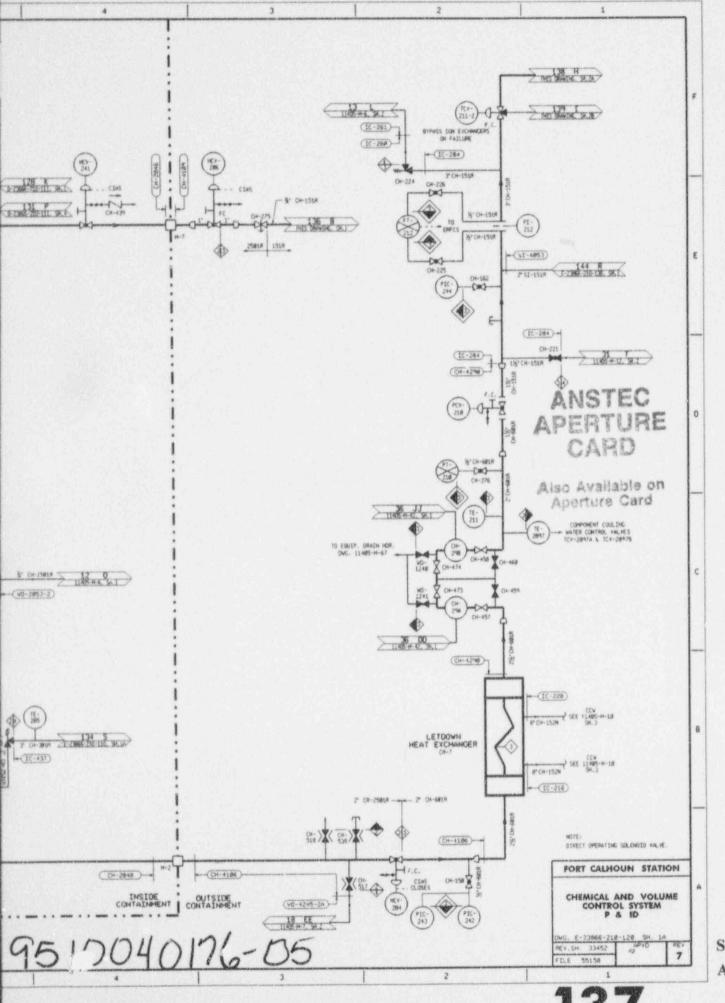
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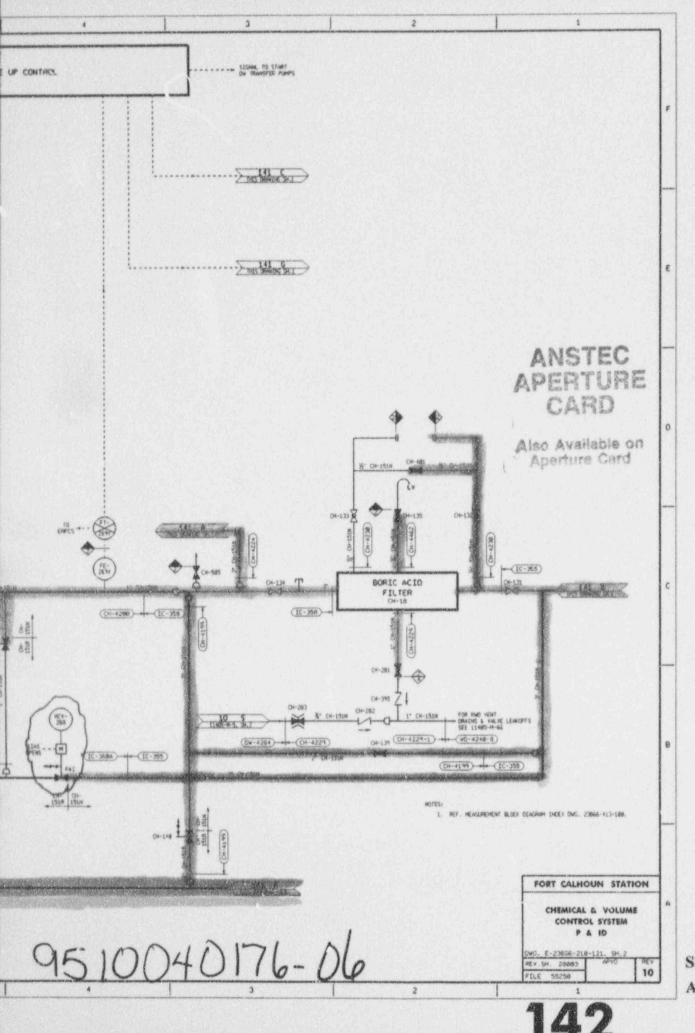


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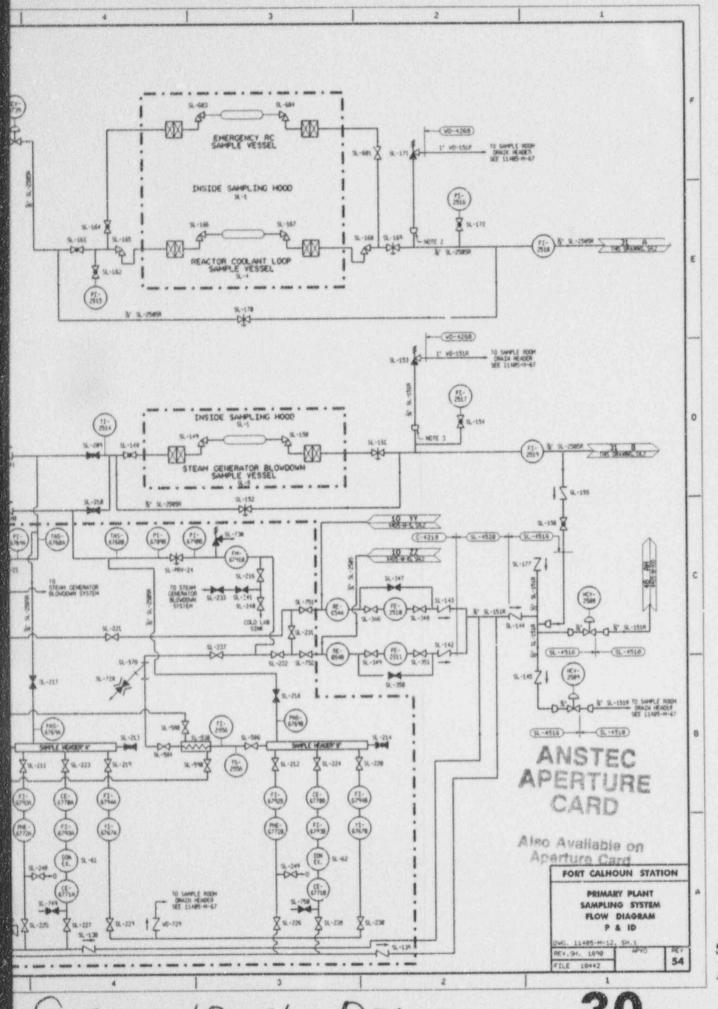




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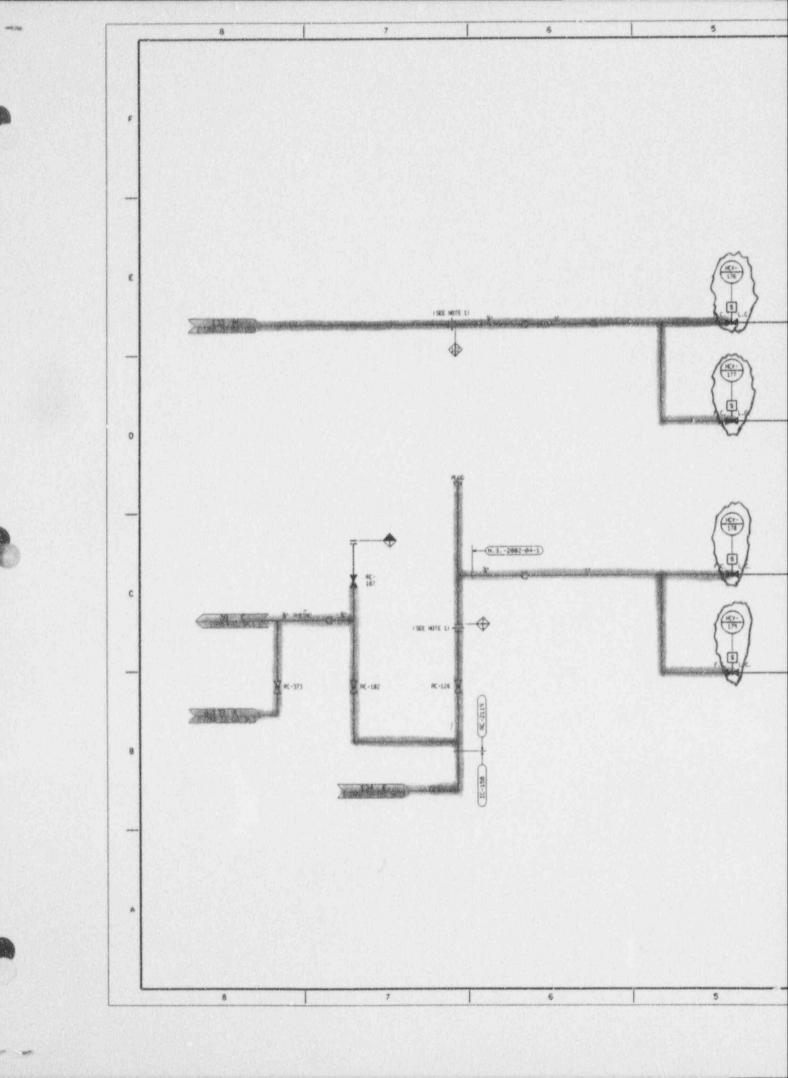


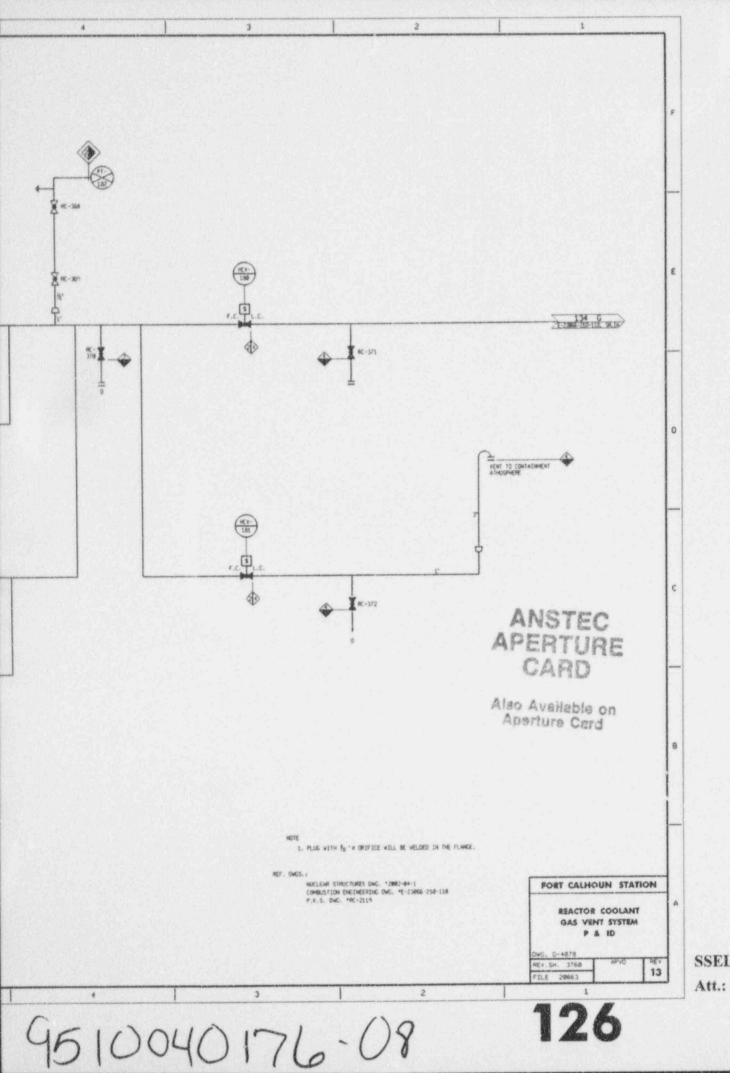
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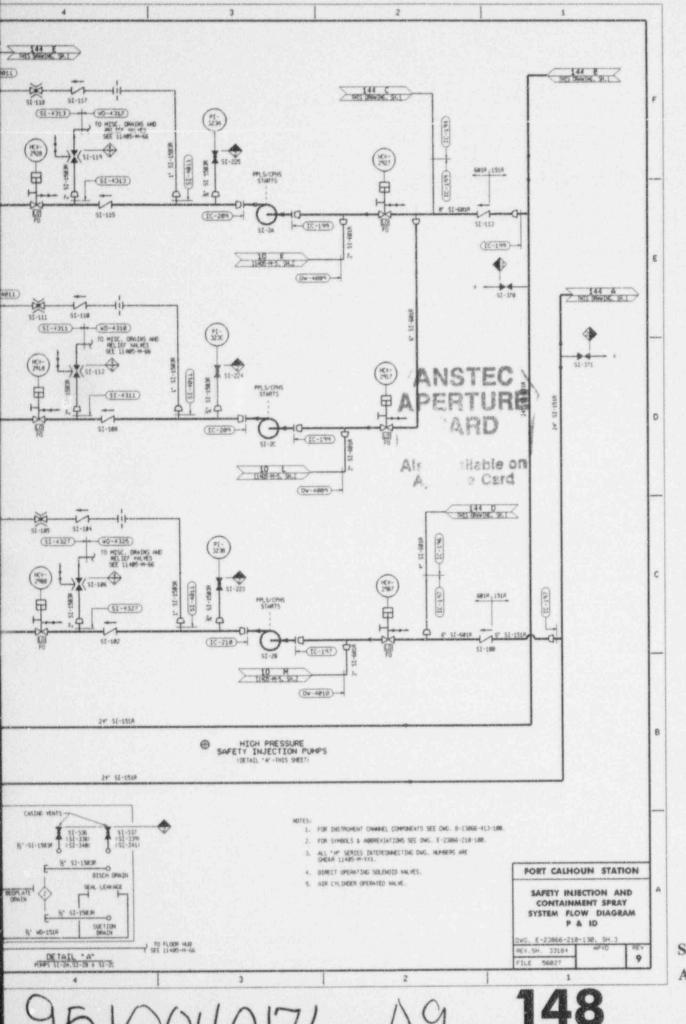
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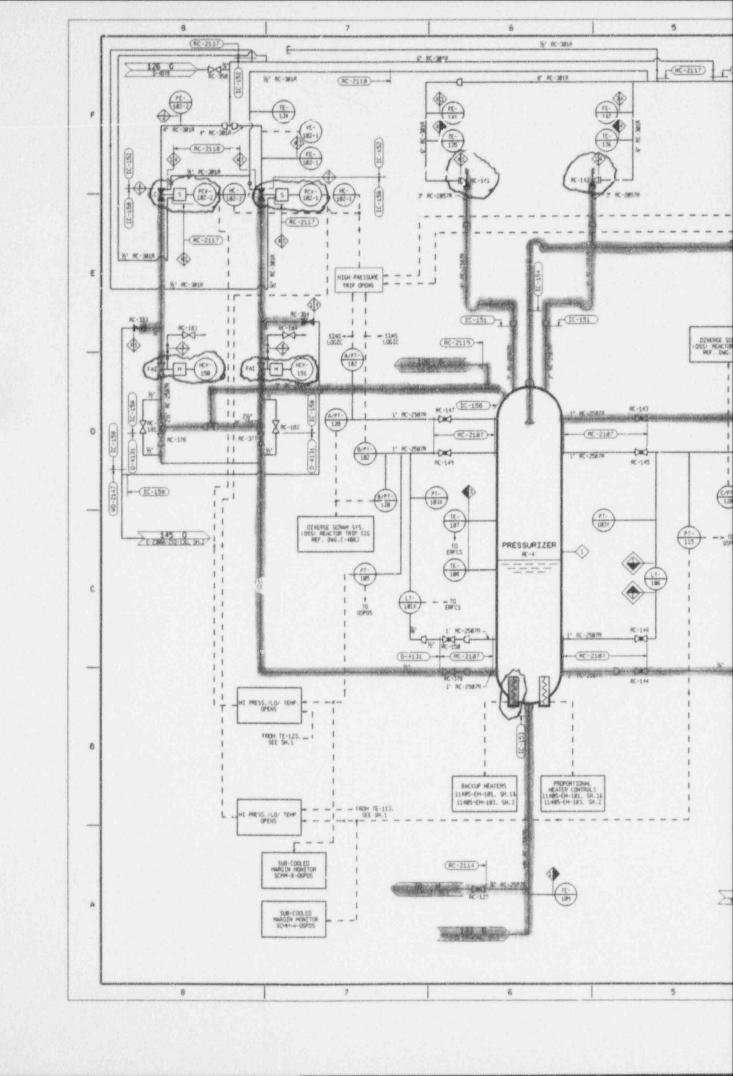


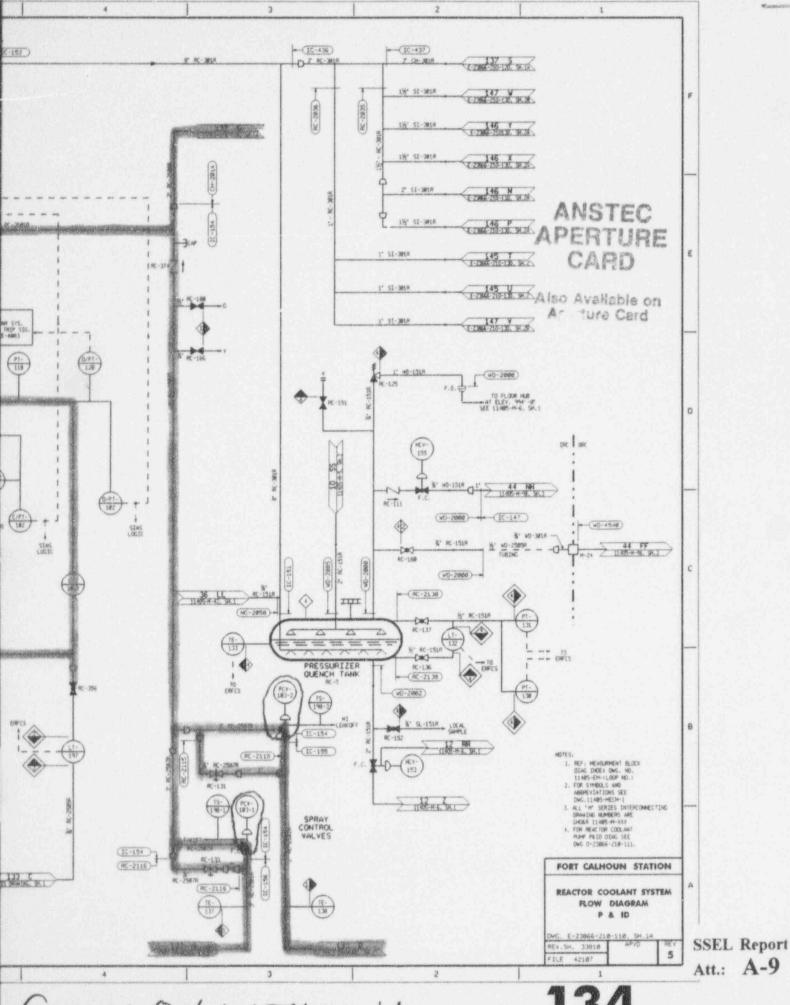


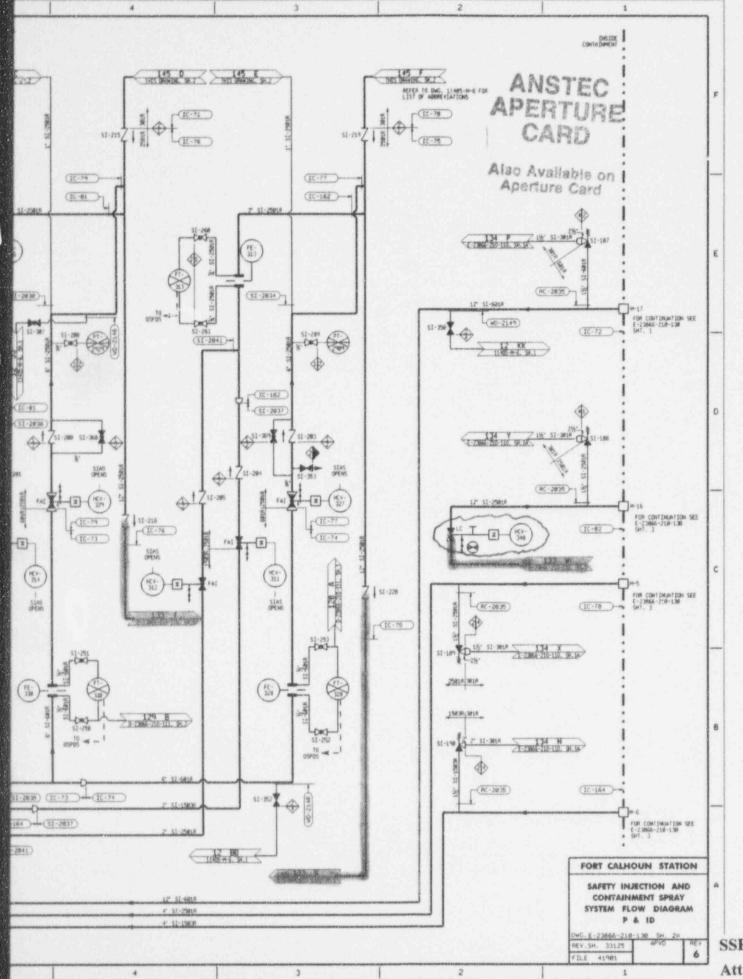
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SSEL Report Att.: A-8



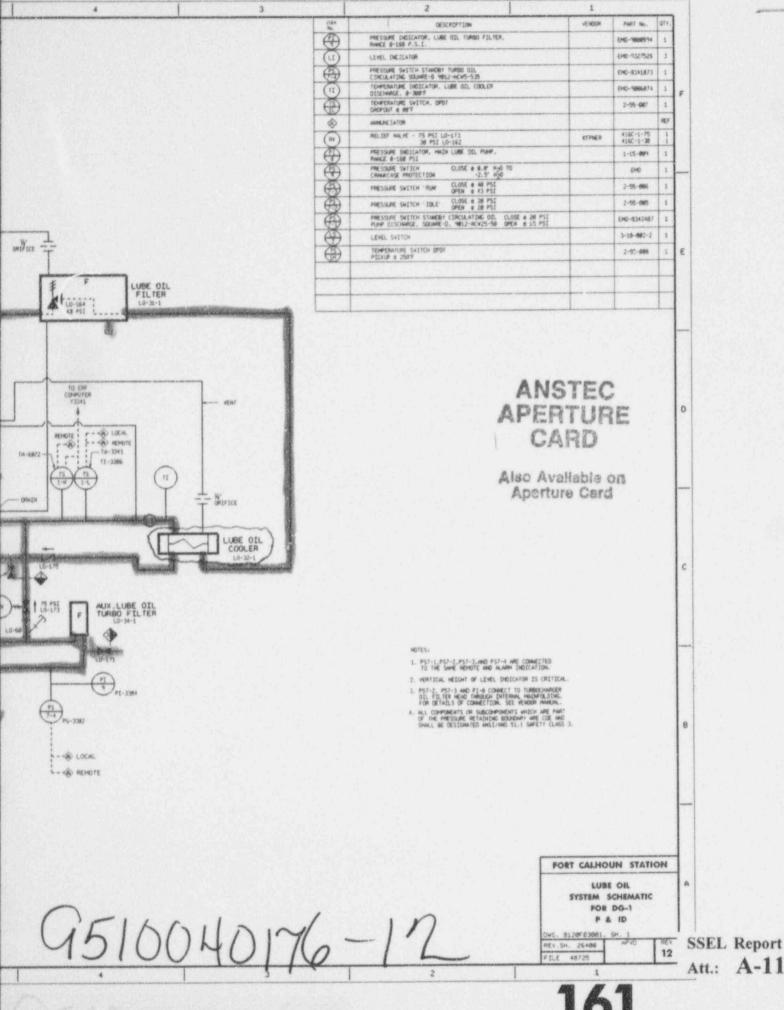


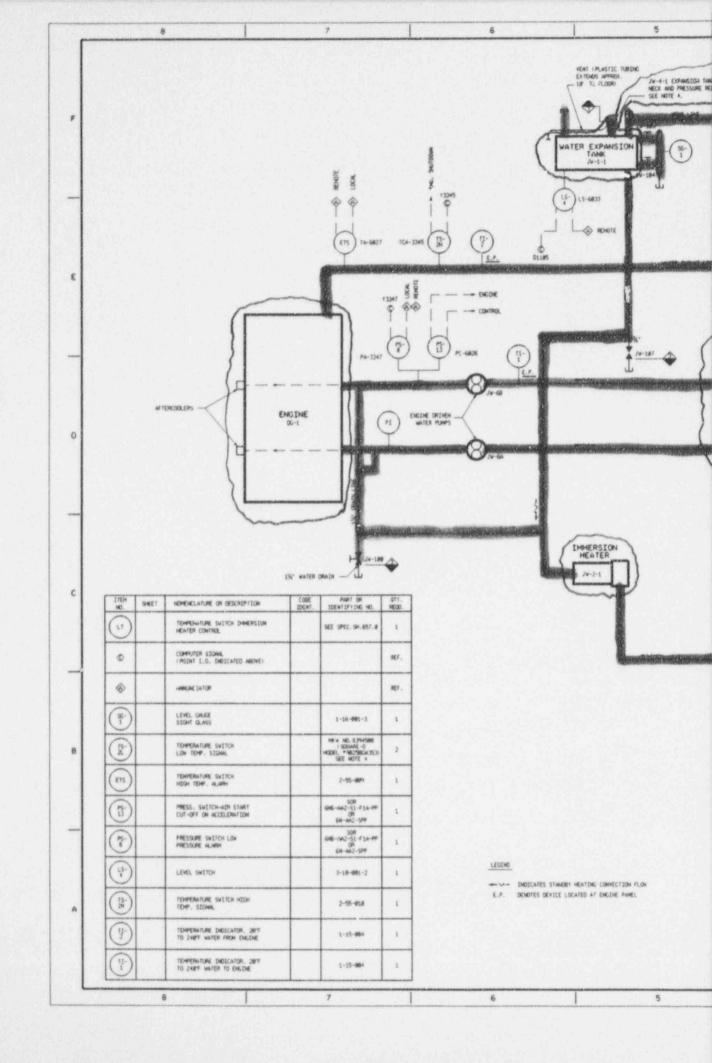


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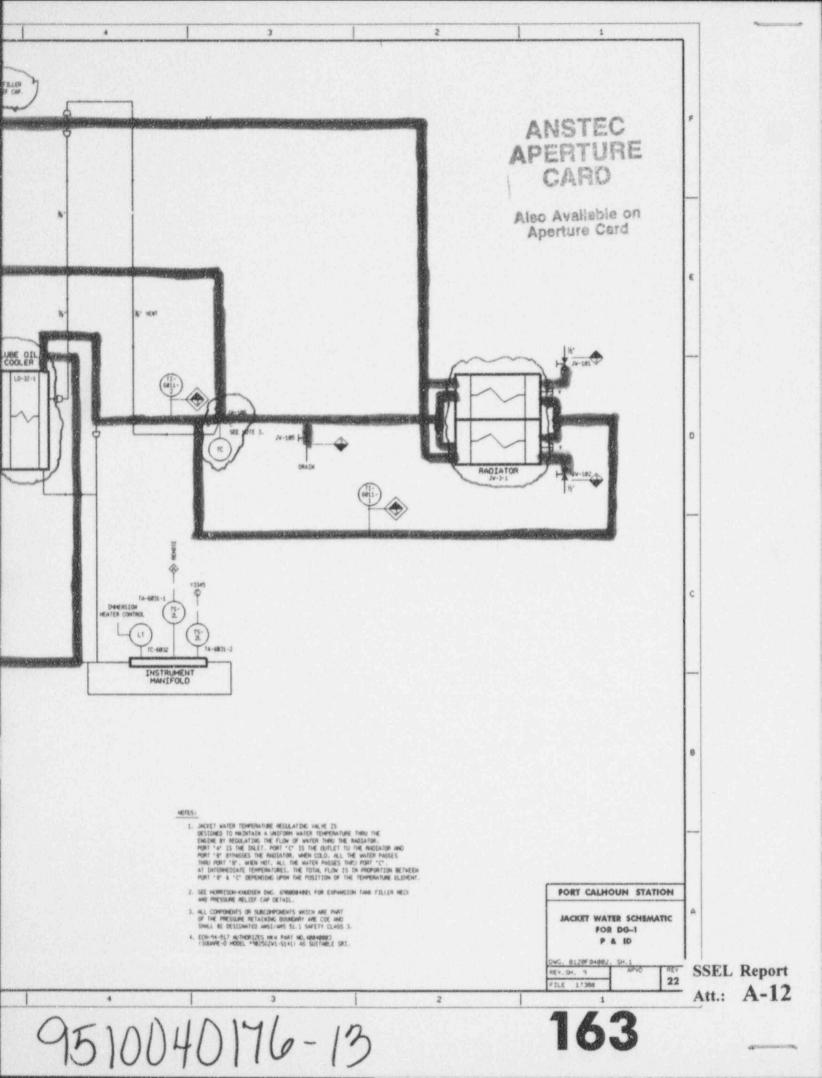
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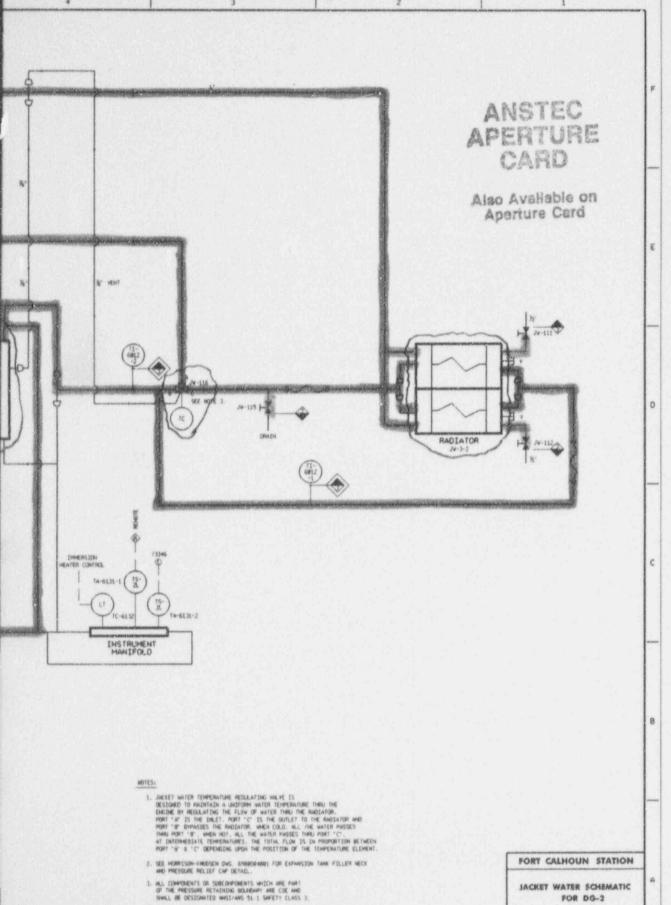




A 1000 - 100



8 6 5 YENT IPLASTIC TUBBING EXTENES APPROX. LIP TO PLOOR! JN-4-2 EXPANSION TANK FILLER MECK AND PRESSURE RELIEF CAP SEE NOTE 4. WATER EXPANSION TANK N-1-2 1,5-6834 - A REMOTE 14-6127 1C4-3346 (15-215 LOCAL - FIGTHE 00 #5-13 8 COOLER 10-32-5 AF TERCOOLERS ENGINE 0 IMMERSION HEATER 1% HATER SHAIN -PART OR IDENTIFYING NO. GTY. RECO. CODE LOENT. SHEET HOMENCLATURE OR DESCRIPTION FEMERATURE SWITCH DIMERSION HEATER CONTROL (ur SEE SPEC. SH. 657.0 COMPUTER SIGNAL (POINT L.O. INDICATED ABOVE) 0 REF. 0 MANAGE LATOR REF. (F LEVEL GALKE SIGH! GLASS 1-16-001-7 1 HEV 100, 87945081. 1 SQUARE - 0 HOORS. 1 HOOSBOWNS 31 SEE NOTE 4 (55-X TEMPERATURE SYLTON LOW TEMP. SEDNAL TEMPERATURE SWITCH HIGH TEMP, ALARM ETS 2-55-889 SOR SN6-682-SL-F14-PP OR SN-682-SPP (T) \$208 685-442-51-5 (4-89 681-442-589 (% PRESCUPE SYSTOM LOW PRESSURE ALARM 15.4 LEGON LEVEL SWITCH 3-18-001-2 ----- INDICATES STANDOT HEAT DIS CONVECTION FLOW E.P. DEMOTES DEVICE LOCATED AT ENGINE PAREL (25) TEMPERATURE SWITCH VICH. 2-55-618 The state of TEMPERATURE DISTORTOR. 2015 TO 240FF WATER FROM ENGINE 1-15-604 II. TEMPERATURE ENGINE OFF TO ENGINE 1-15-004 8



FOR DG-2 P & 10

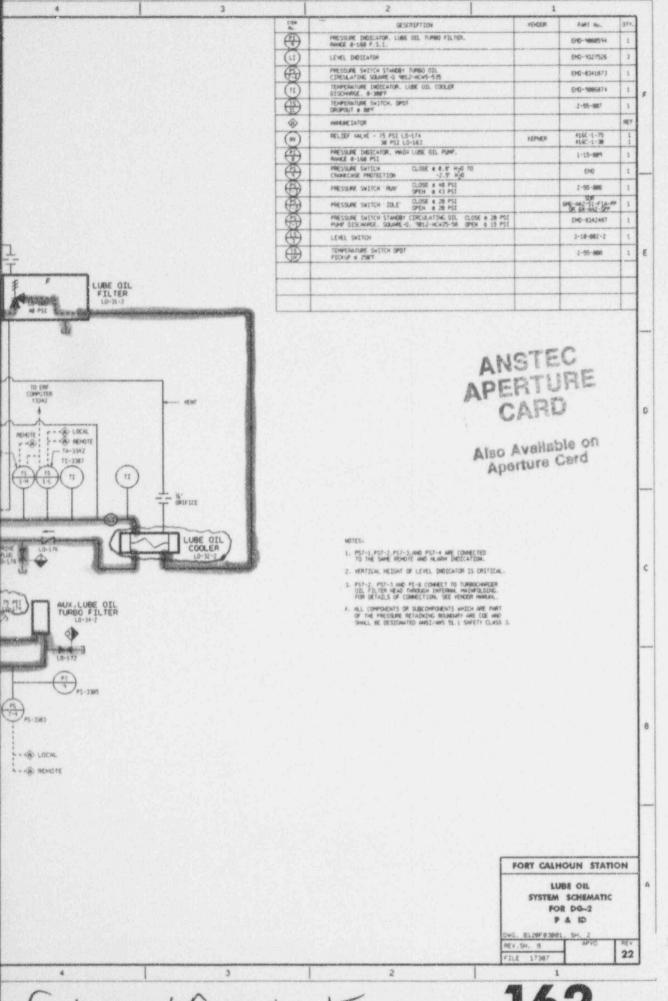
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SSEL Report Att.: A-13

4. ECH 94-517 MITHORIZES HKV PART NO. HIBMARKE (SOUME-O HODE). PRIZECZNI-SS41) AS A SUITABLE SRI.

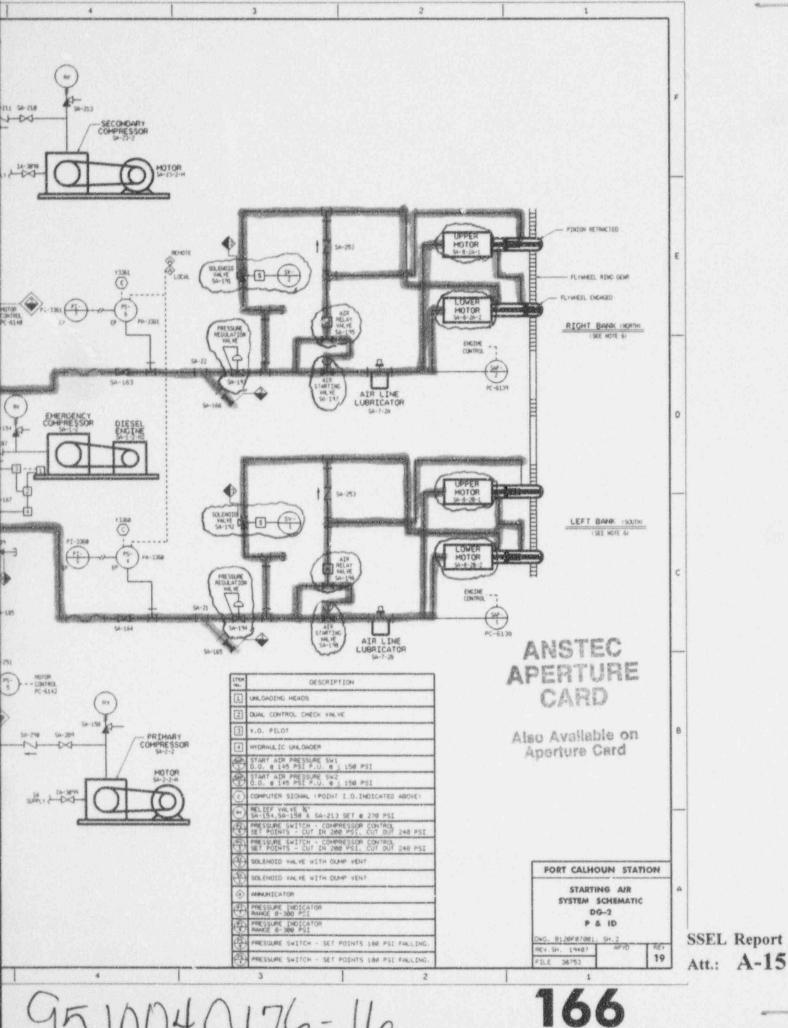
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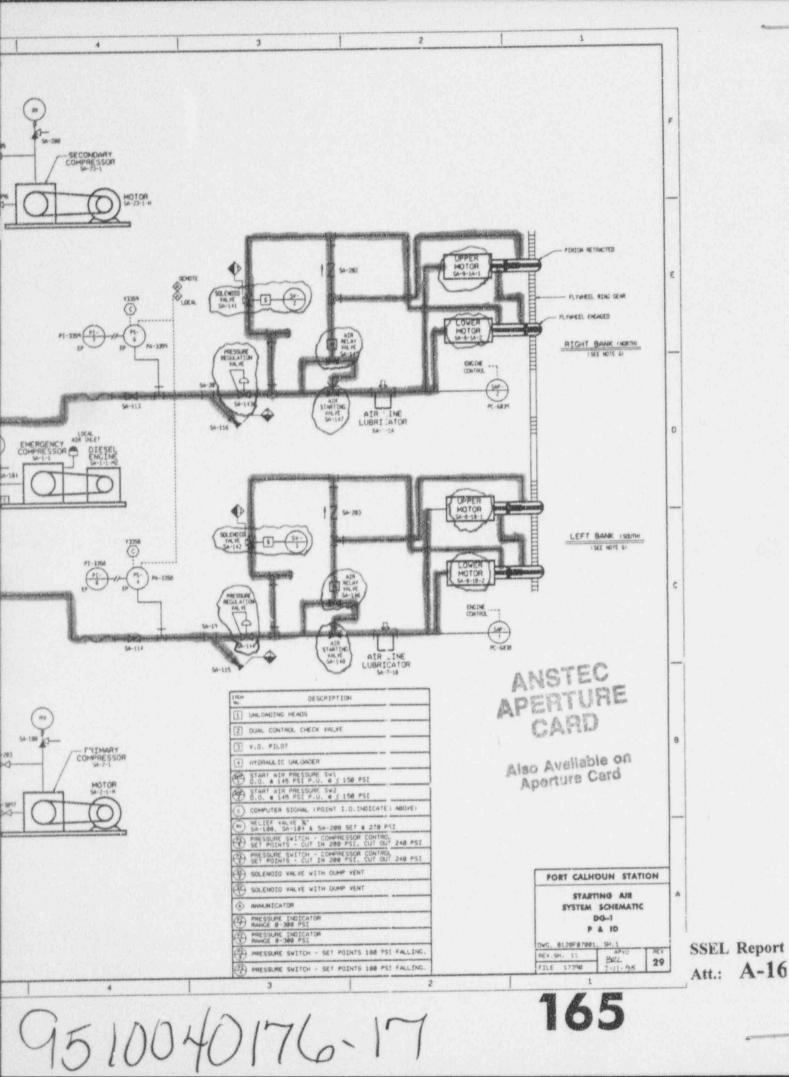
SSEL Report Att.: A-14

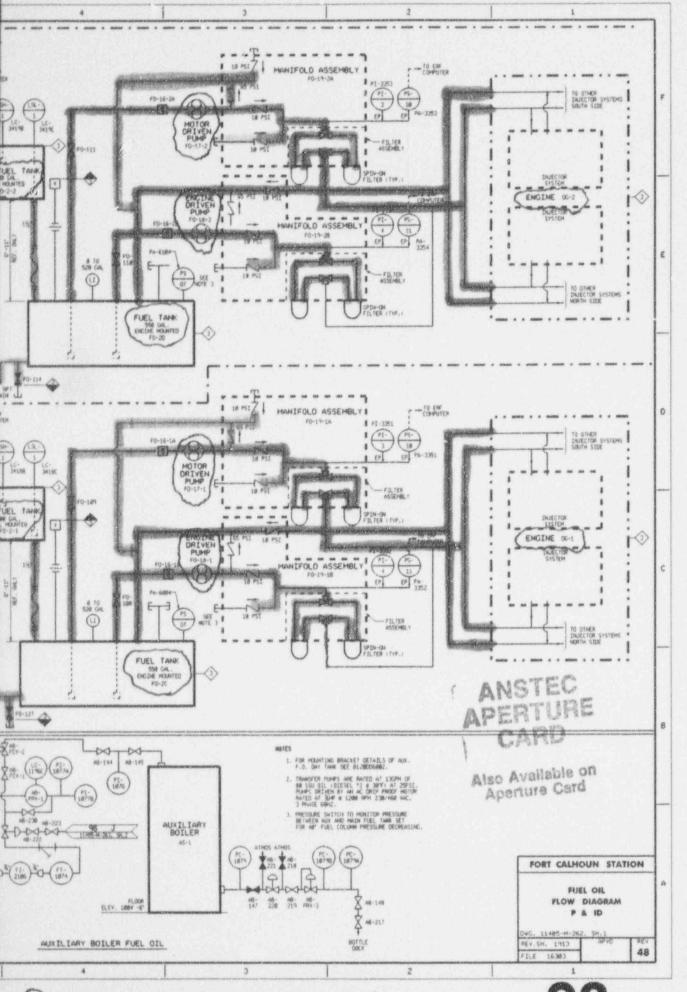
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WYDAY WEXN

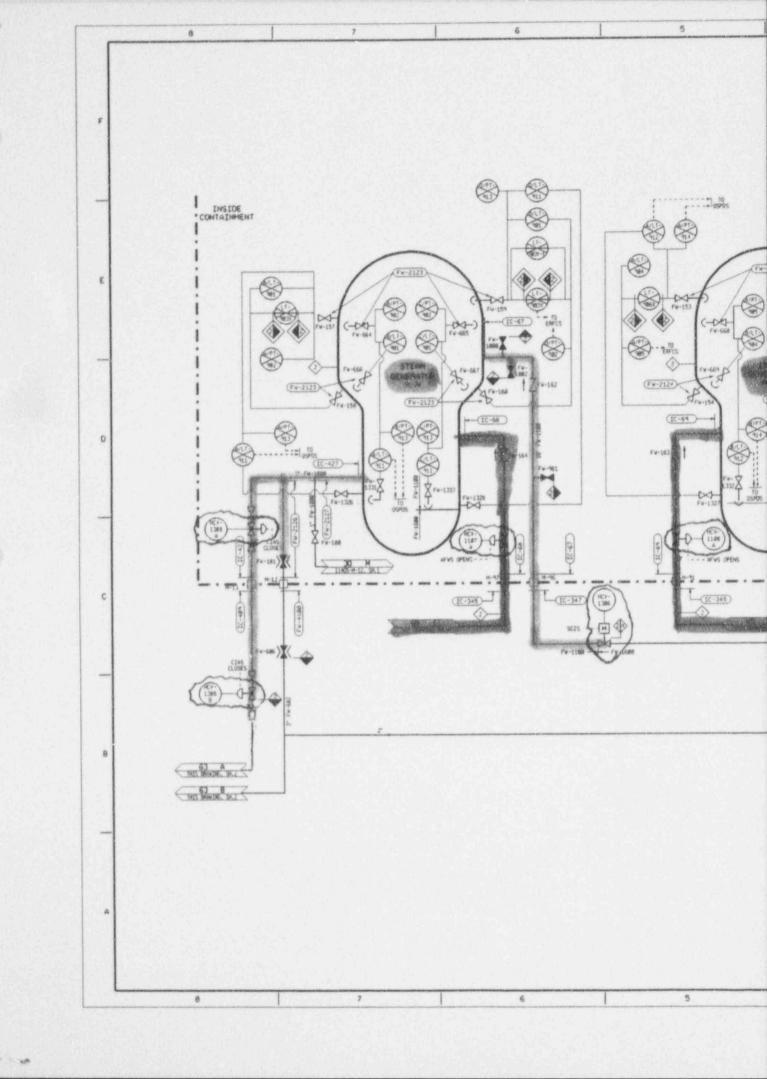


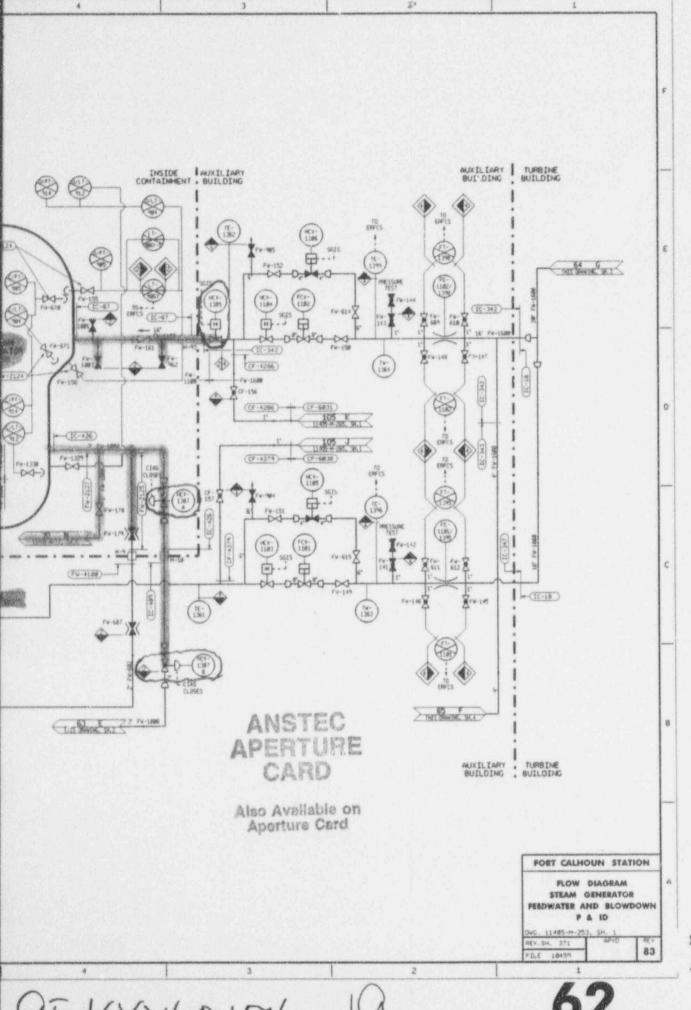
March 1986



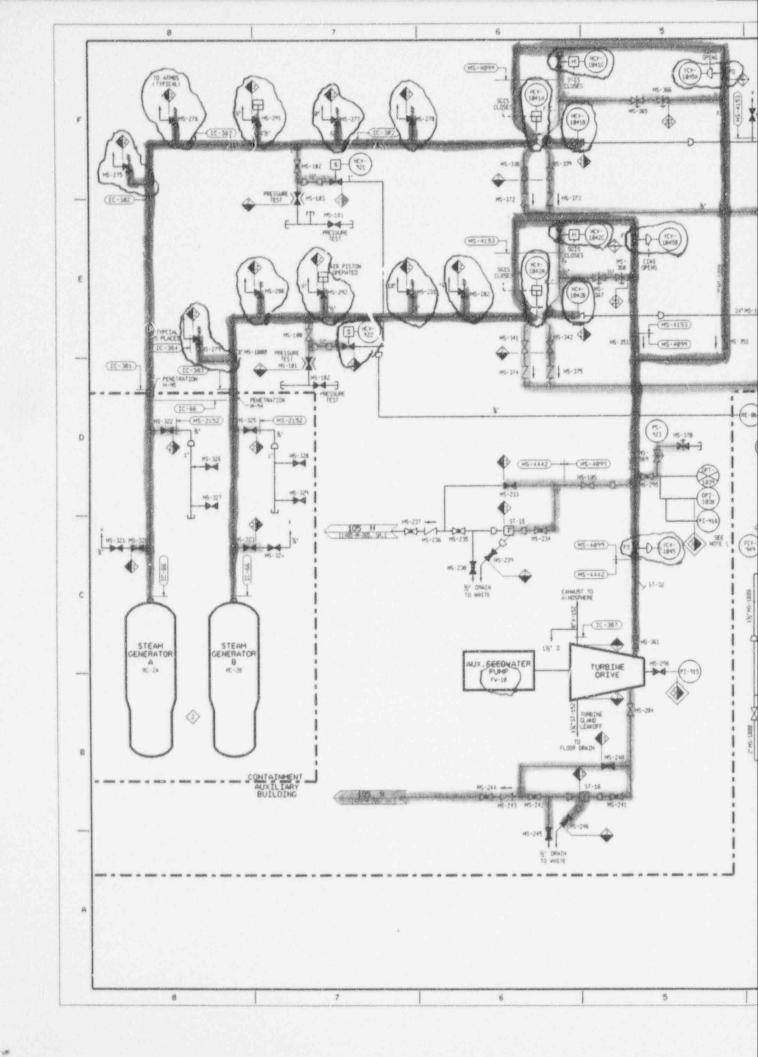


SSEL Report Att.: A-17

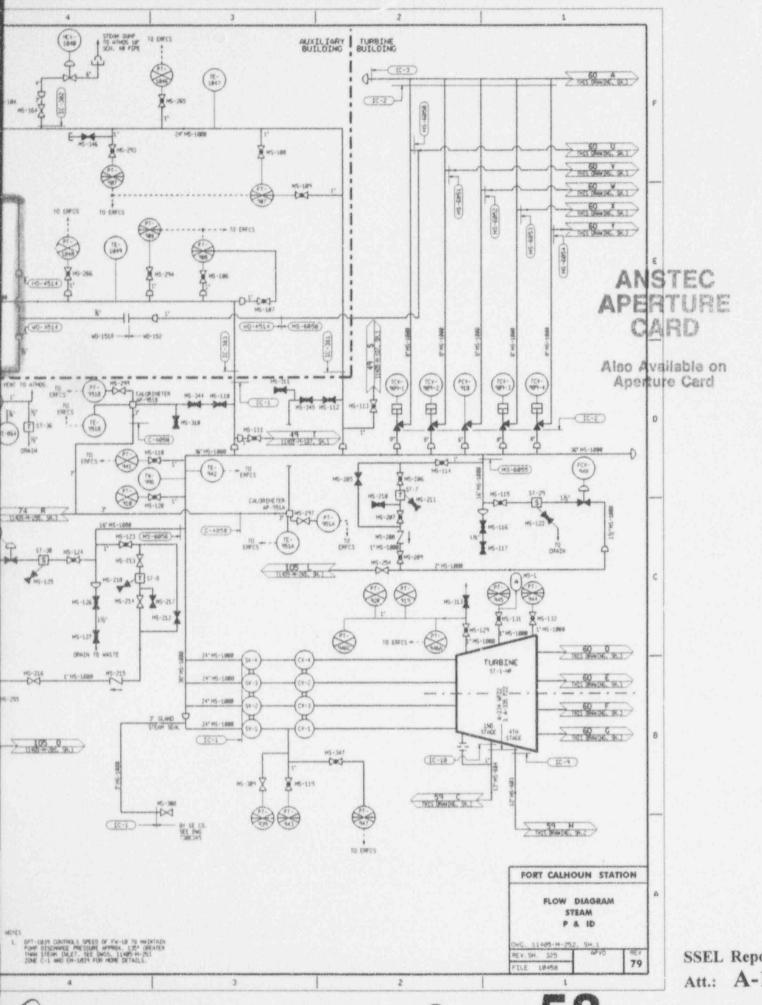




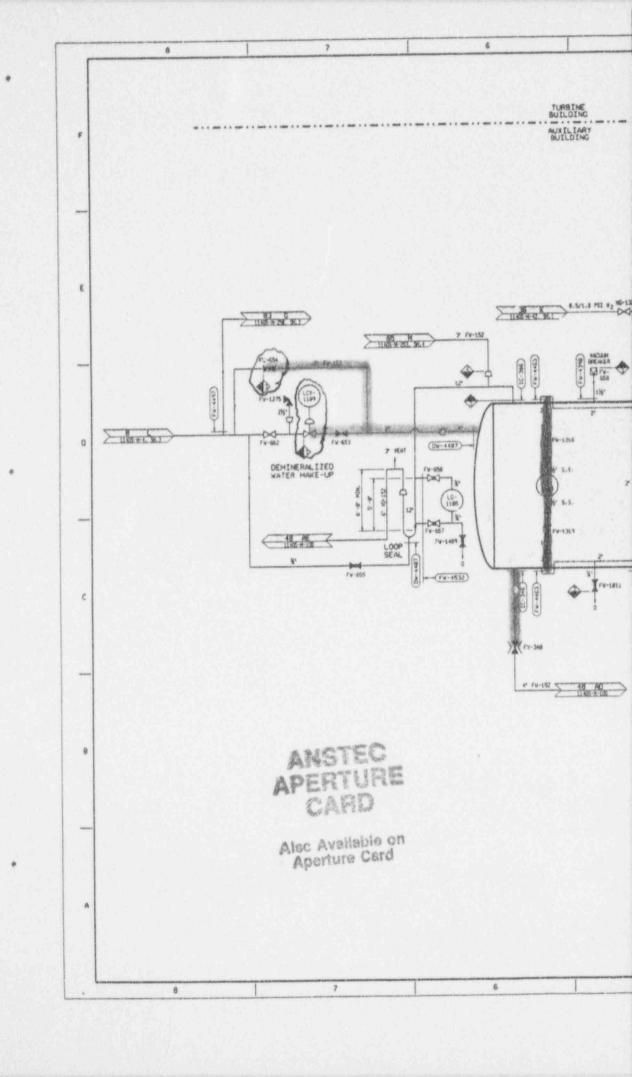
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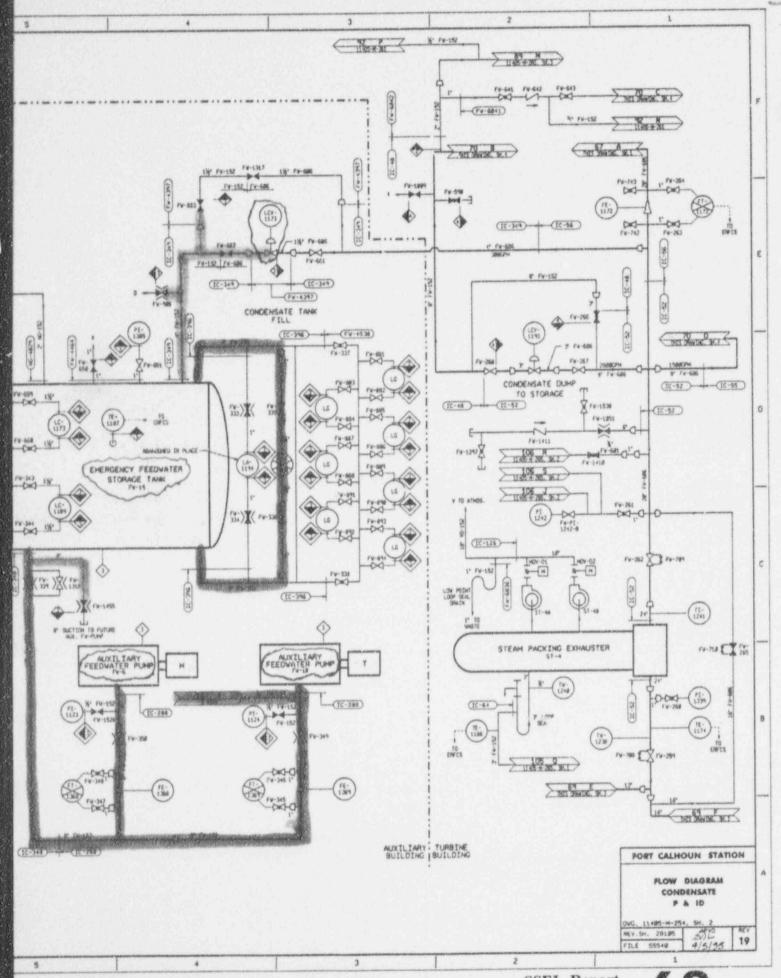


Wast San

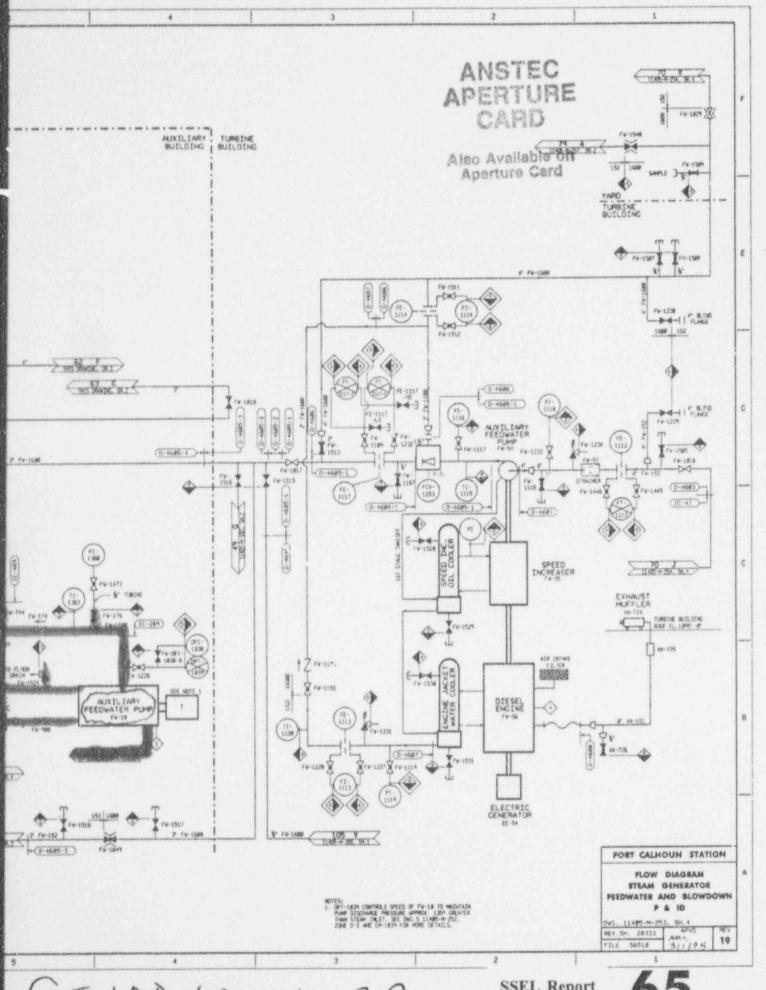


SSEL Report Att.: A-19

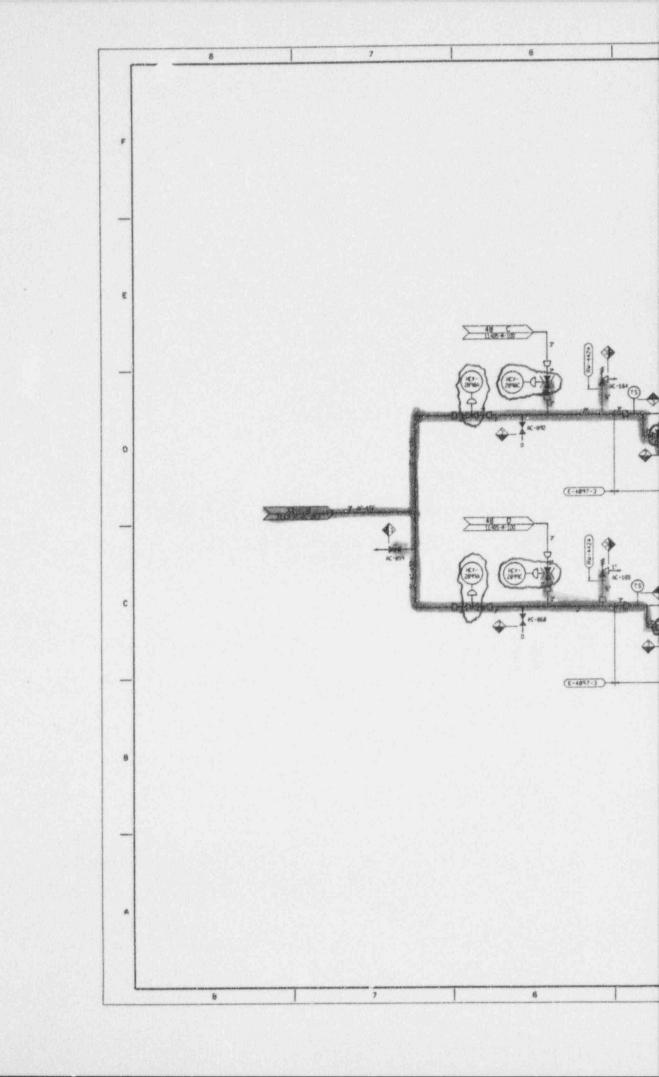




SSEL Report Att.: A-20 68



SSEL Report Att.: A-21



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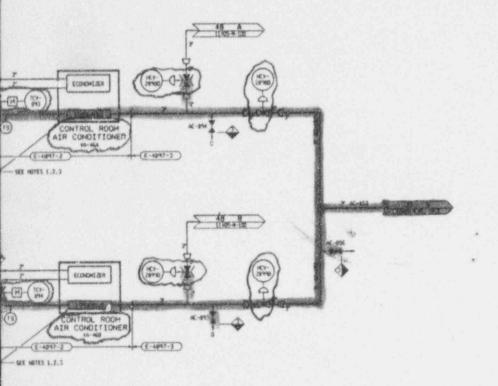
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ANSTEC **APERTURE** CARD

Also Available on Aperture Card



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MOTES

- 1. WATER COOLED CONDENSER IS IN LONGER REQUIRED FOR THE CONTROL ROCH AIR REFRICEMENT SYSTOM, HERE-C-M-420 INSTITULE AIR COOLED CONDENSERS TO REJECT THE CONTROL ROCH HEAT GAIN. SEE DRAWING 0-4187. CONTROL ROCH HEAT GAIN. SEE DRAWING 0-4187. CONTROL ROCH HEAT REPRICEMENT LINE PUPPING ISOHETRICS.
- 2. THE CON SYSTEM IS STOLL REQUIRED FOR THE WATER SIDE ECONOMIZER.
- THE CON STELL FLOWS THROUGH THE WHITEH-COOLED CONDUCINER. THEREFORE, THE CON FLOW RATE ODES HOT CHANGE.

FORT CALHOUN STATION

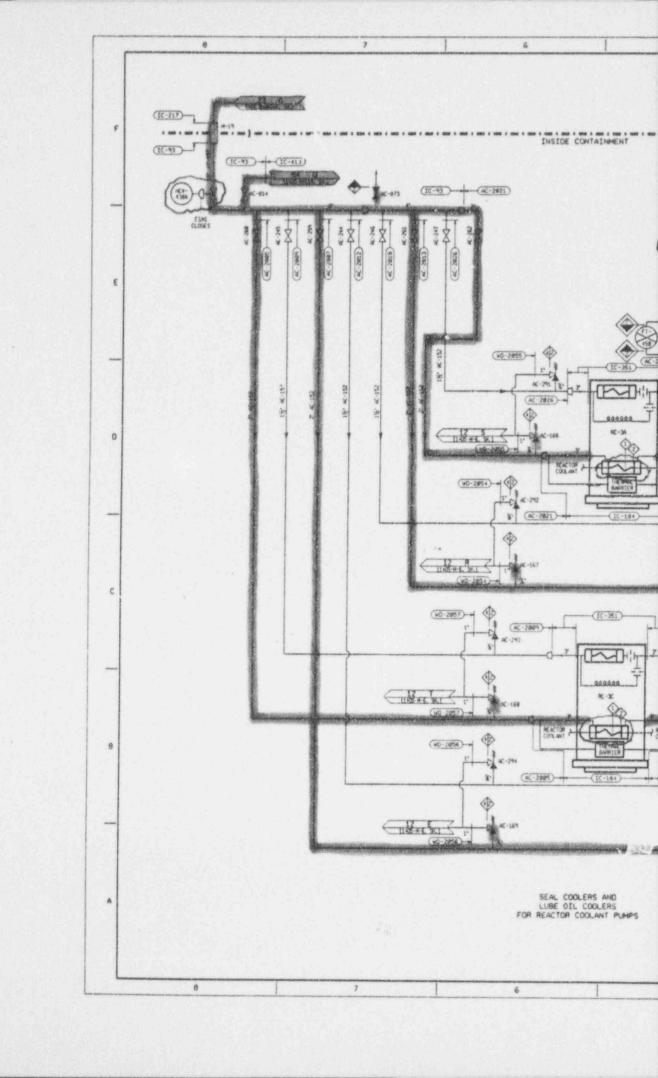
THAJOOD YRAIJIXUA COMPONENT COOLING SYSTEM FLOW DIAGRAM P & ID

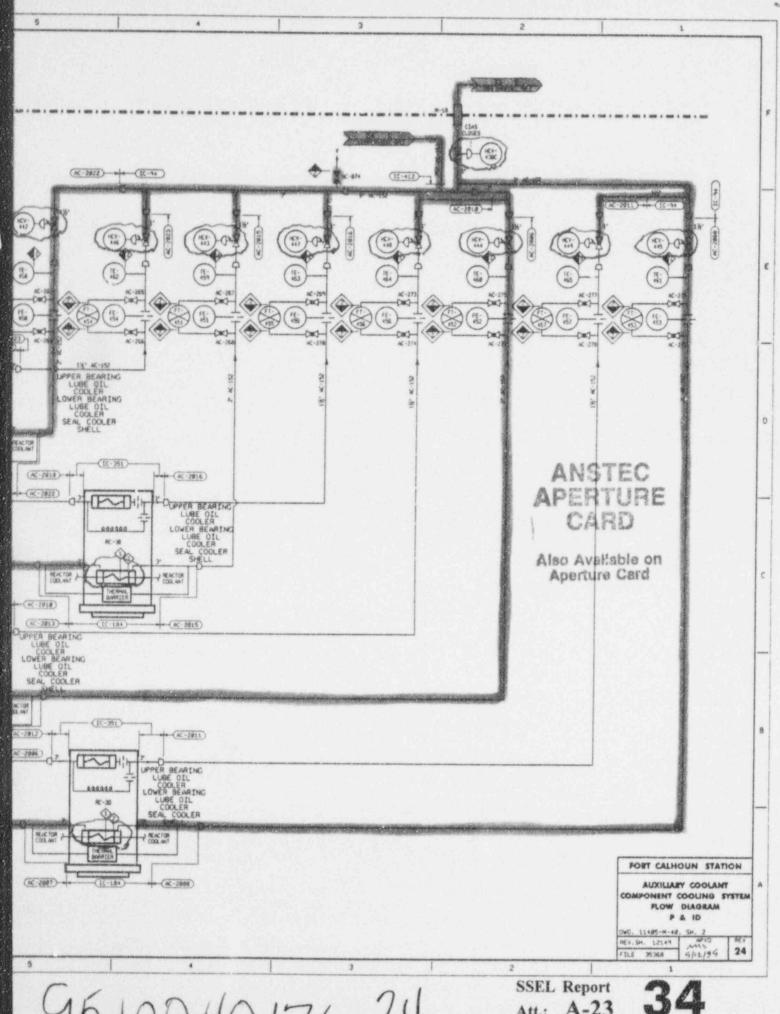
DWG. 11485-H-18, REV. SH. 244 FILE 18448

502 AEV +/5/95 65

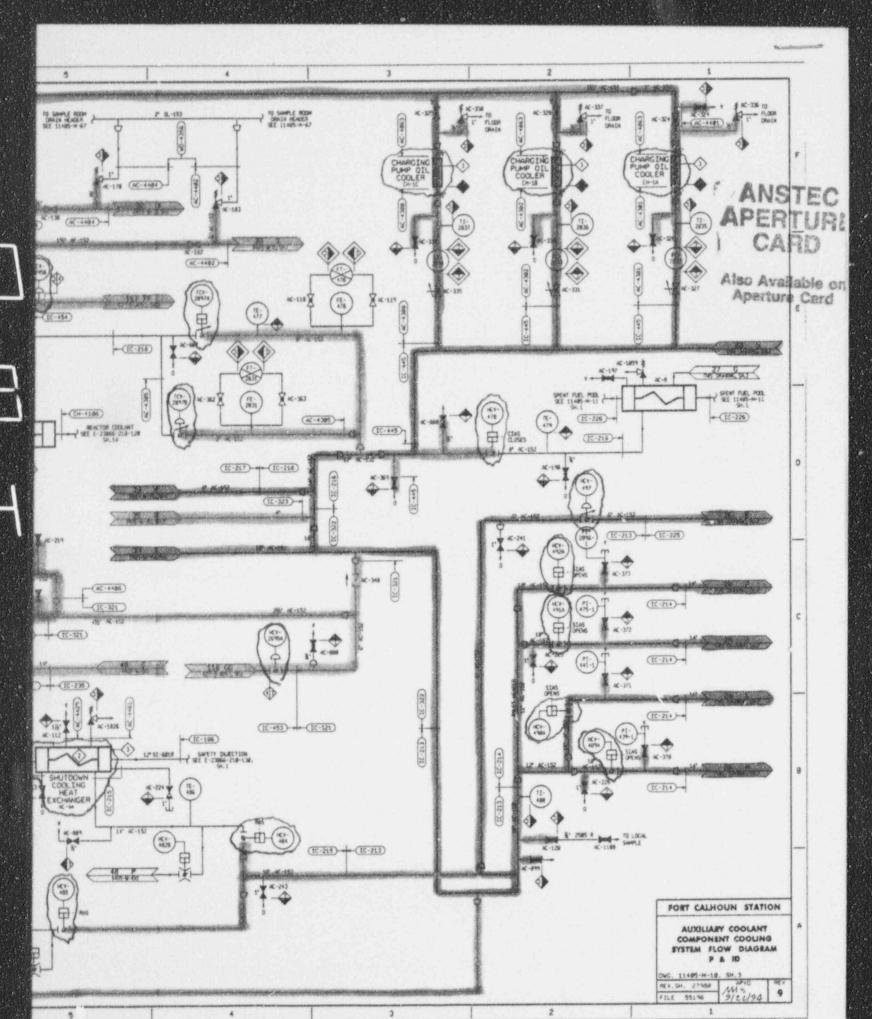
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9510040176-23

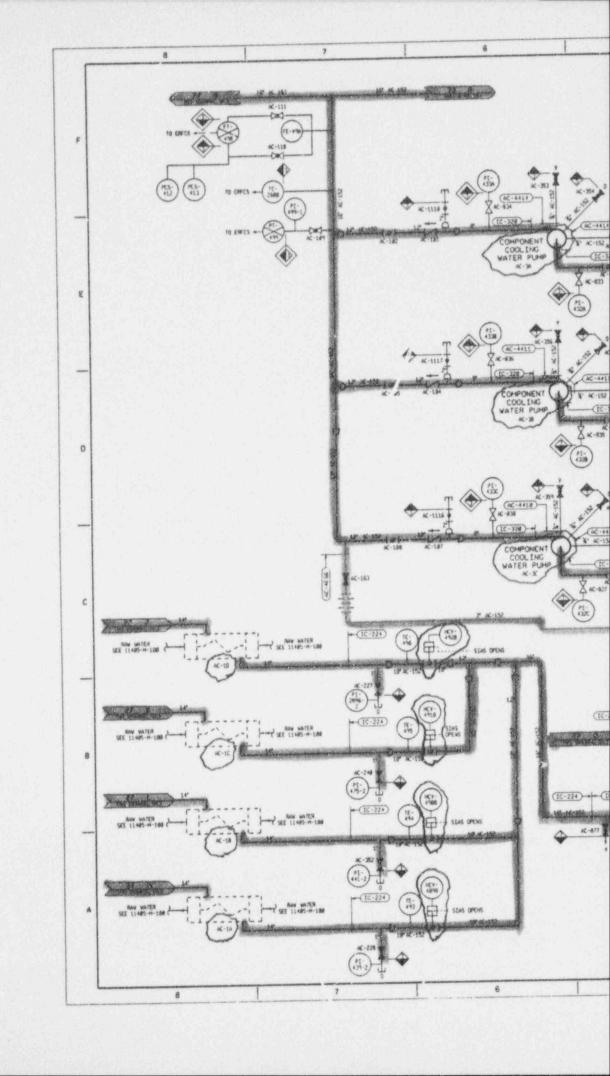




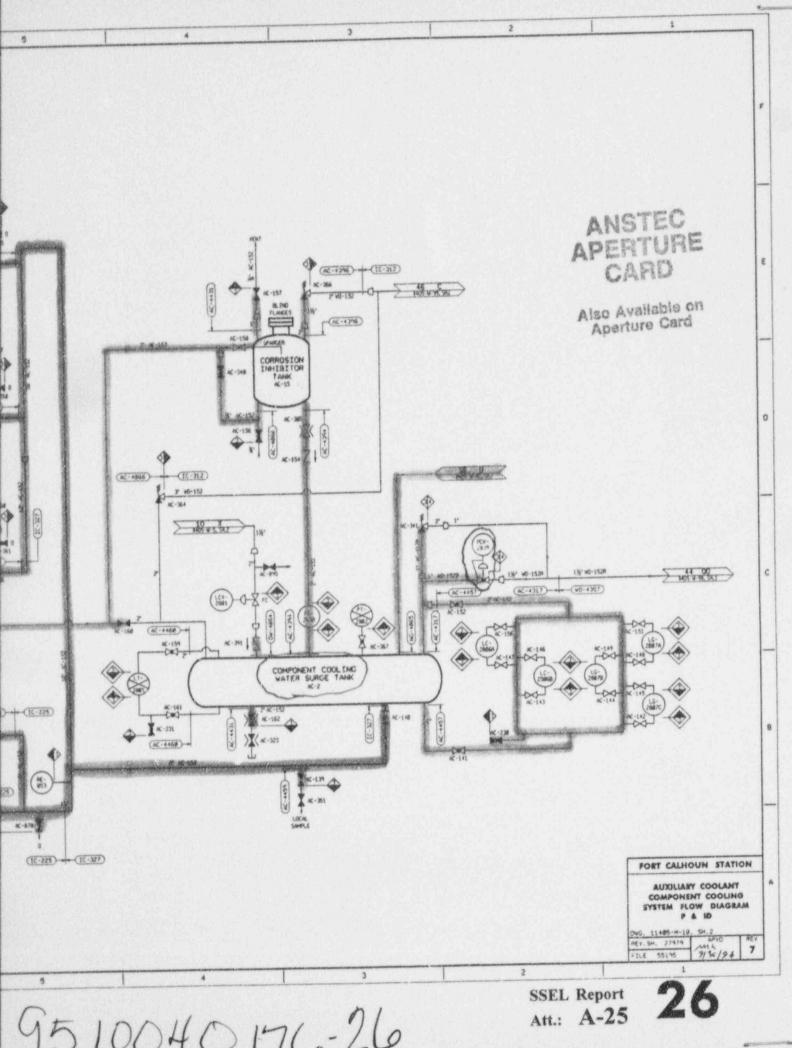
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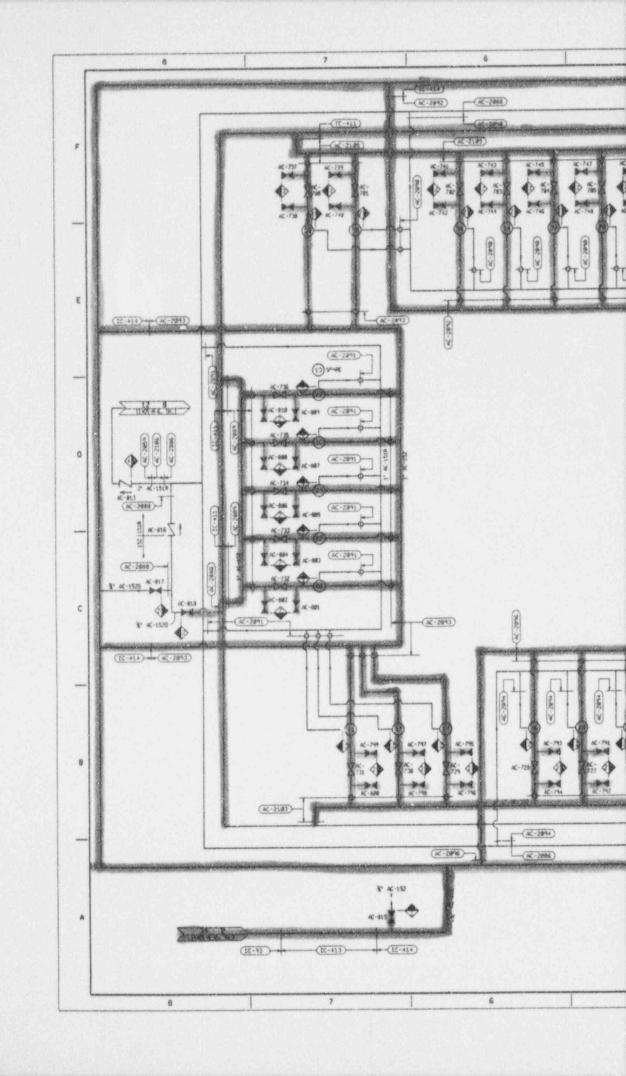


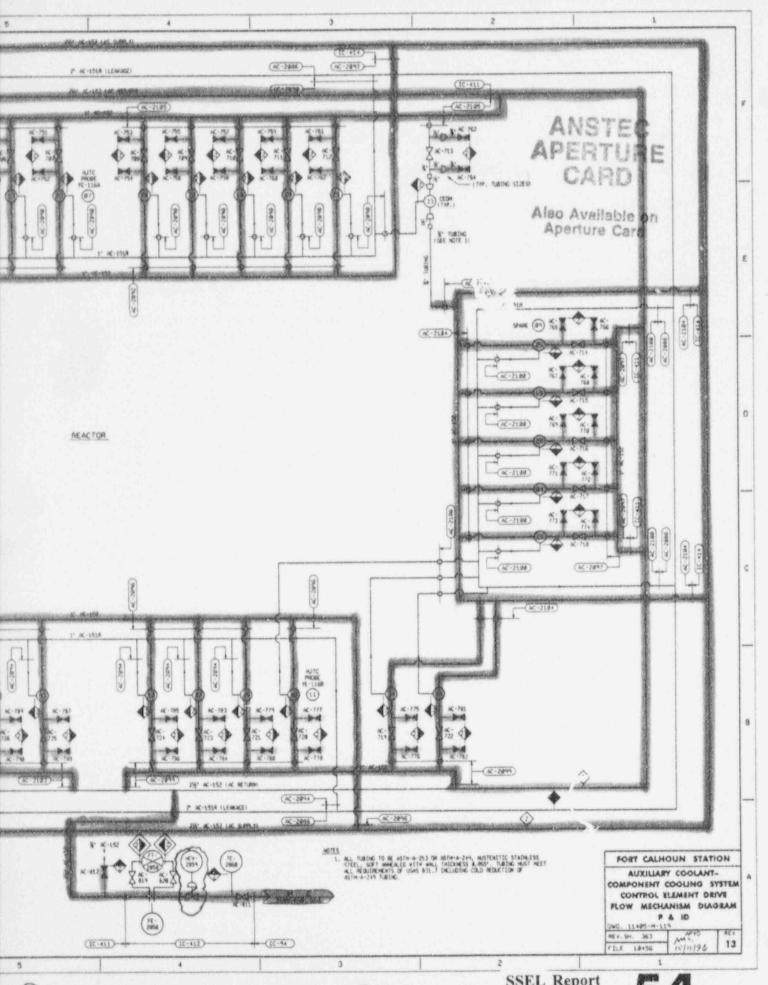
SSEL Report
Att.: A-24



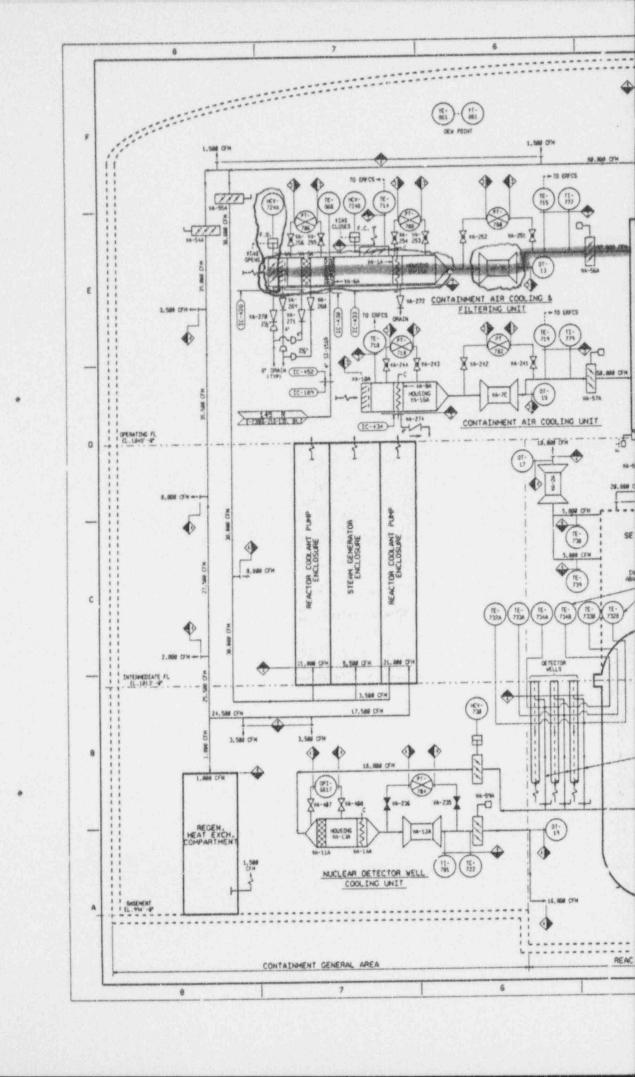
Killion Service

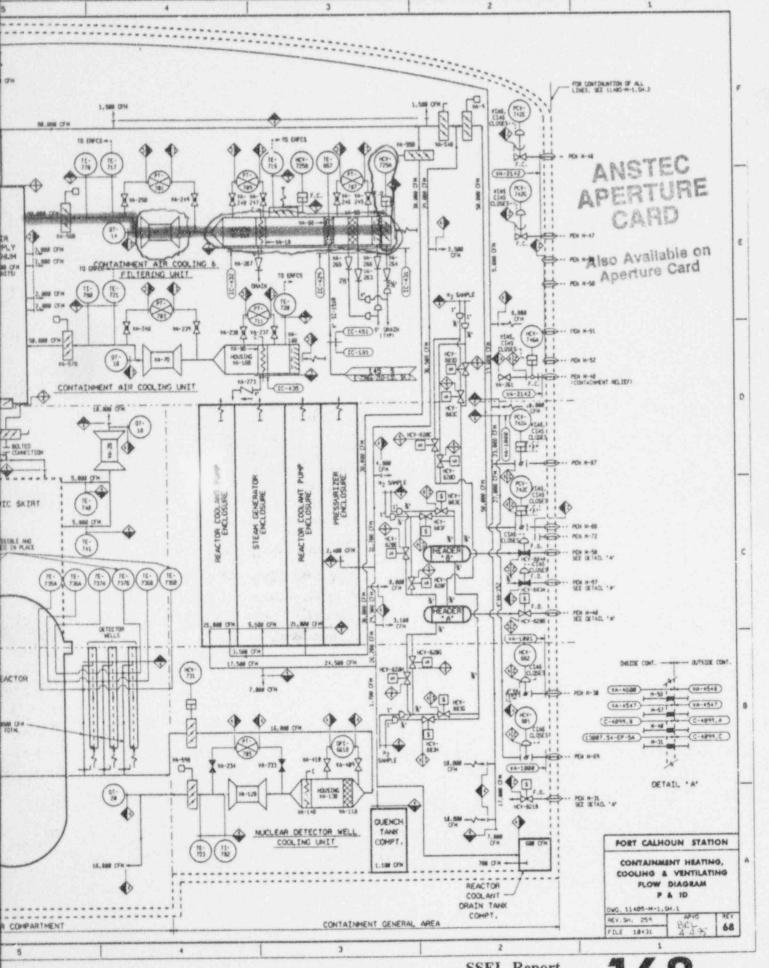






SSEL Report
Att.: A-26

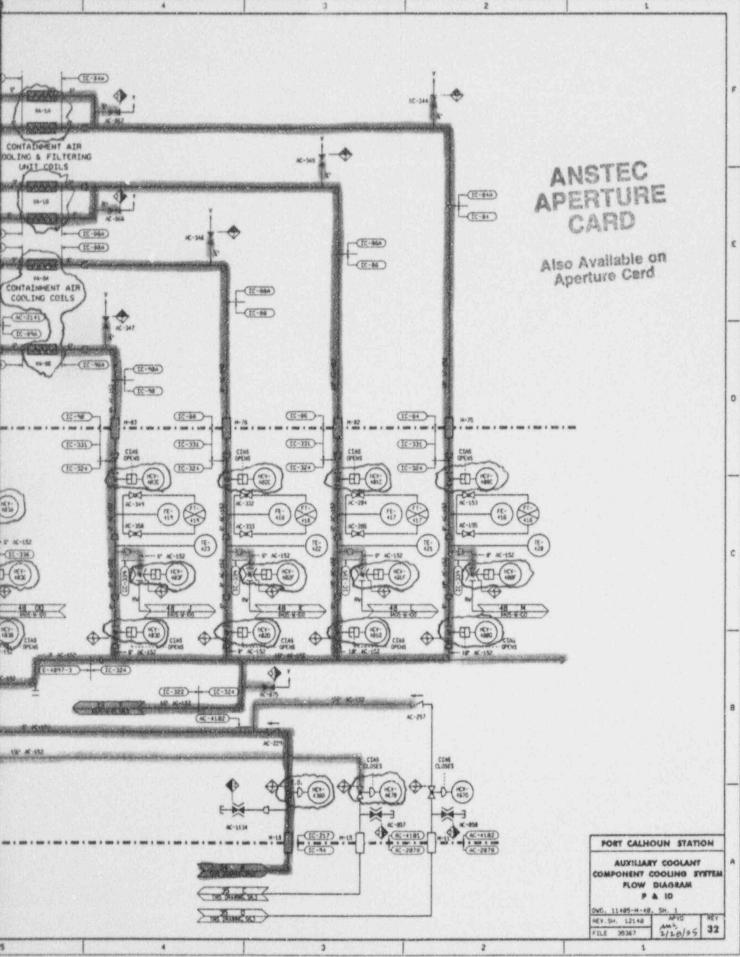




SSEL Report Att.: A-27

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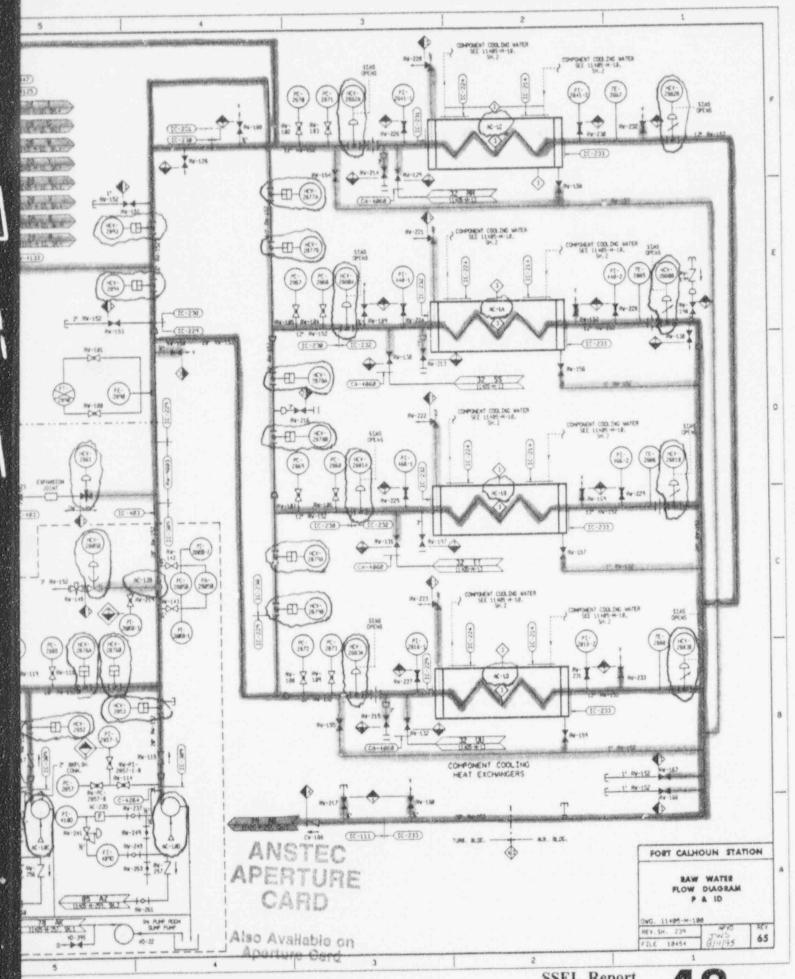
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9510040176-29

SSEL Report
Att.: A-28

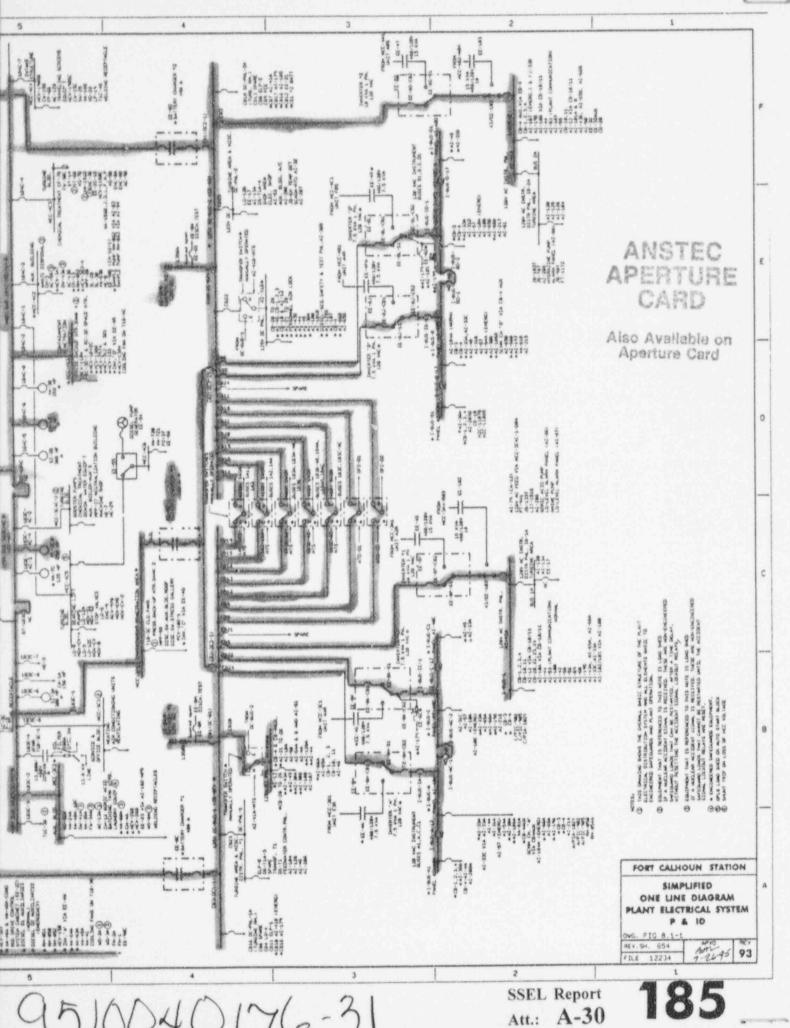
Esser March

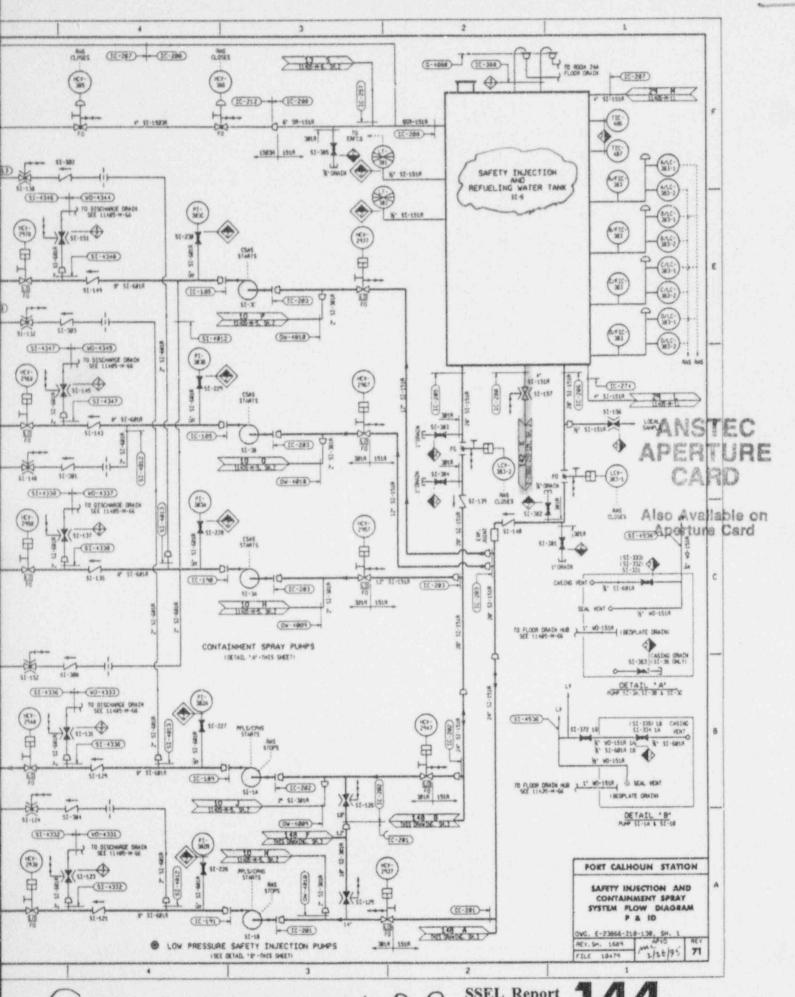


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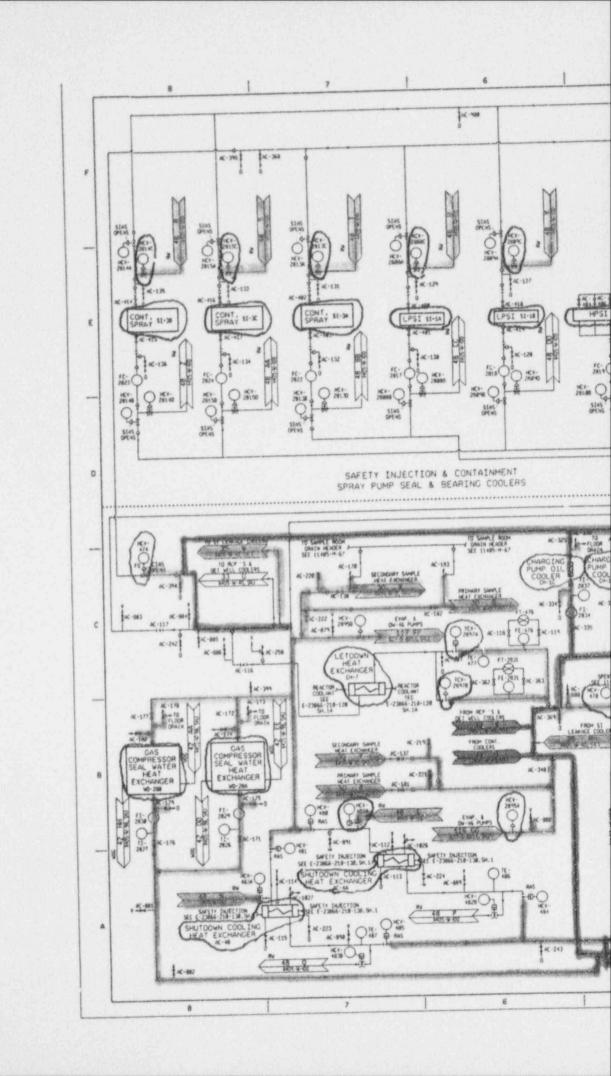
SSEL Report Att.: A-29 48

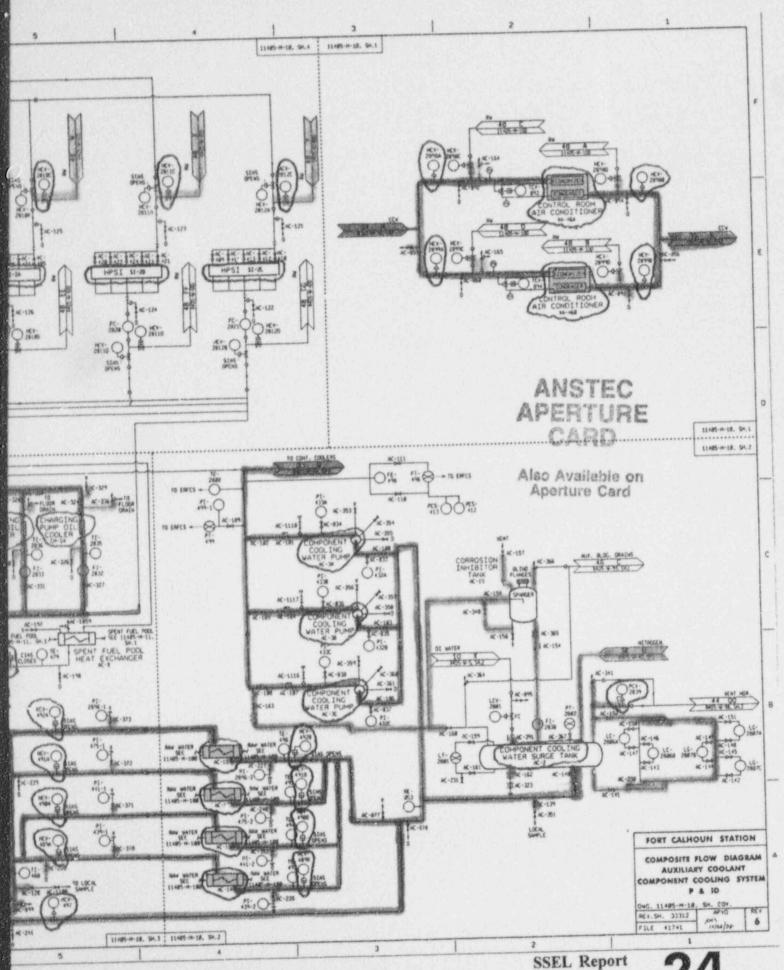
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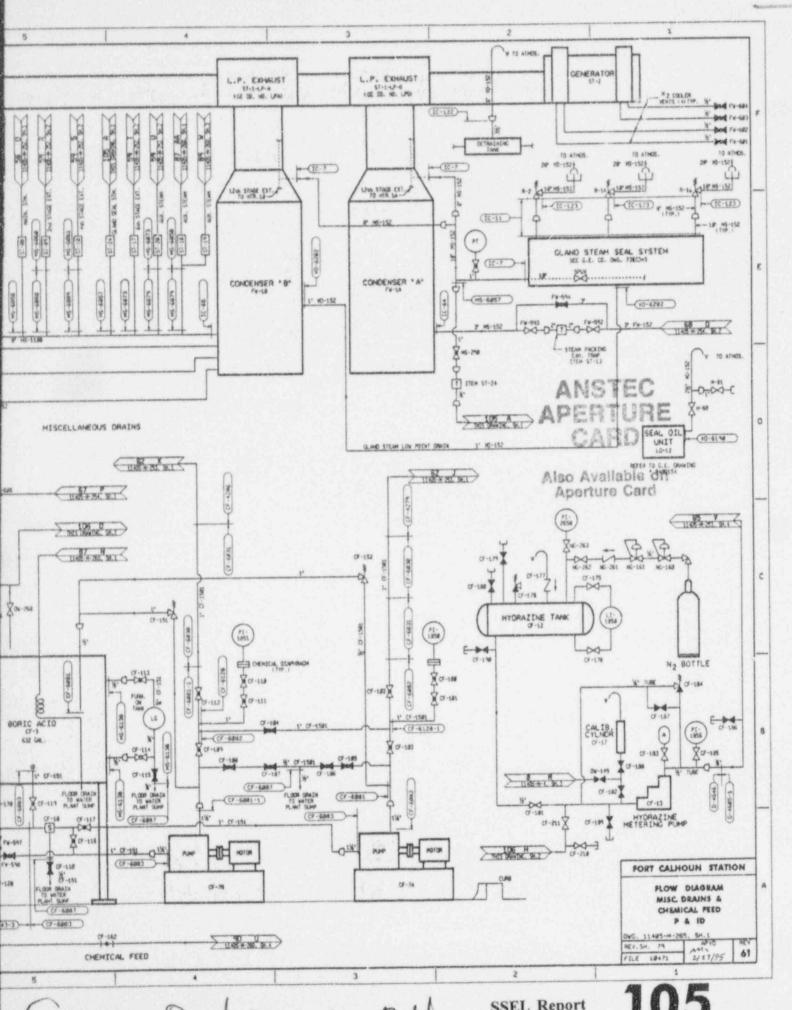
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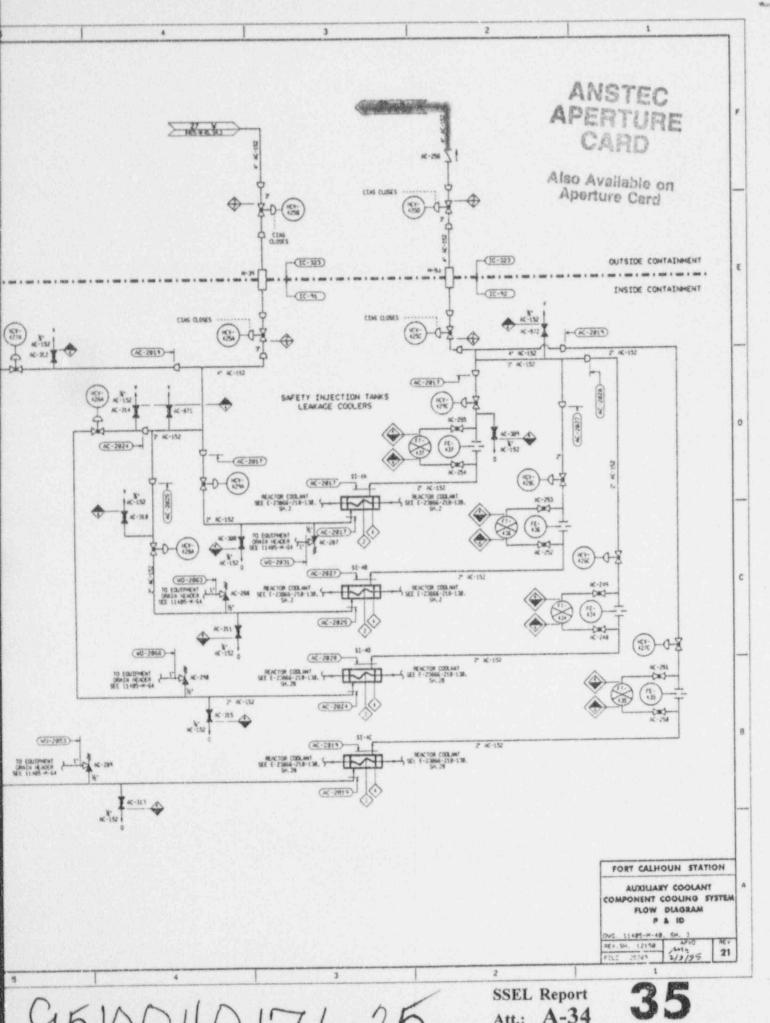


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SSEL Report
Att.: A-32

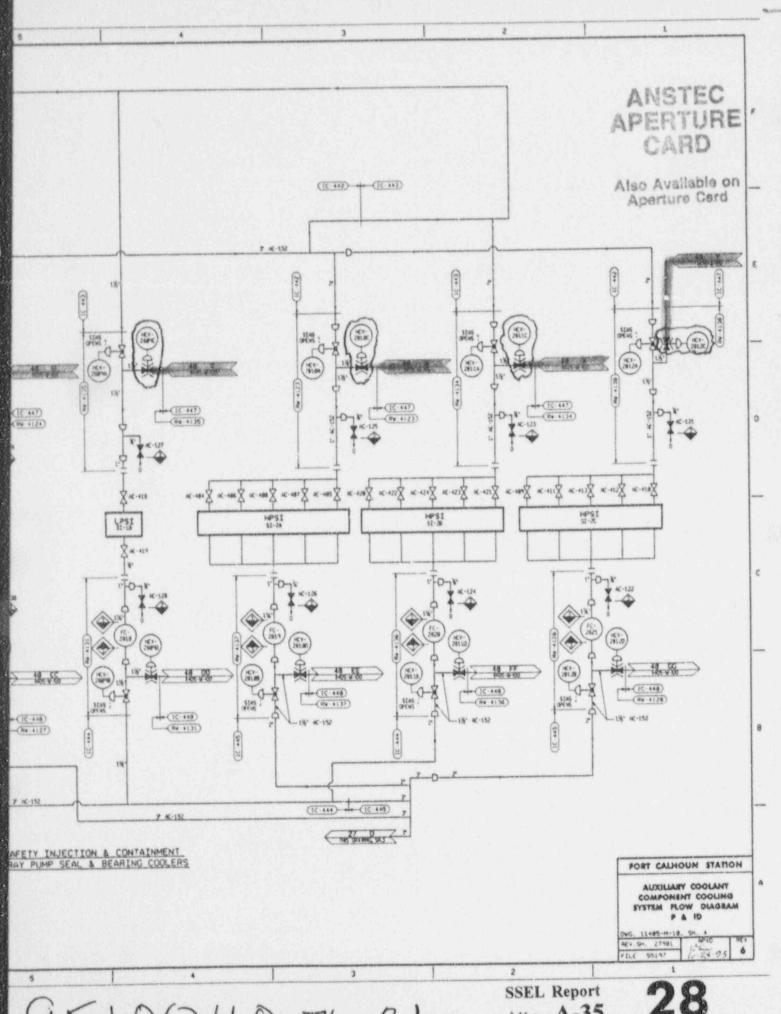


SSEL Report Att.: A-33



Att.: A-34

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Att.: A-35



Also Available on Aperture Card

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SALE TO SERVICE TO SER

FORT CALHOUN STATION

FW-10 LUGE OIL SCHEMATIC P & ID

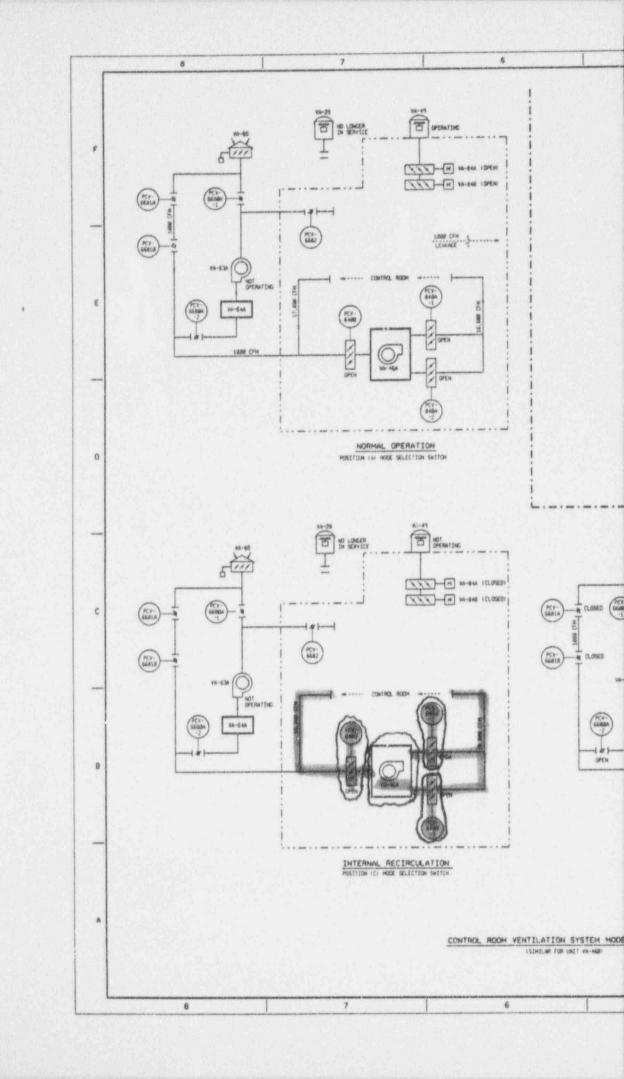
DWG. E-4144 REV.SH. 28844

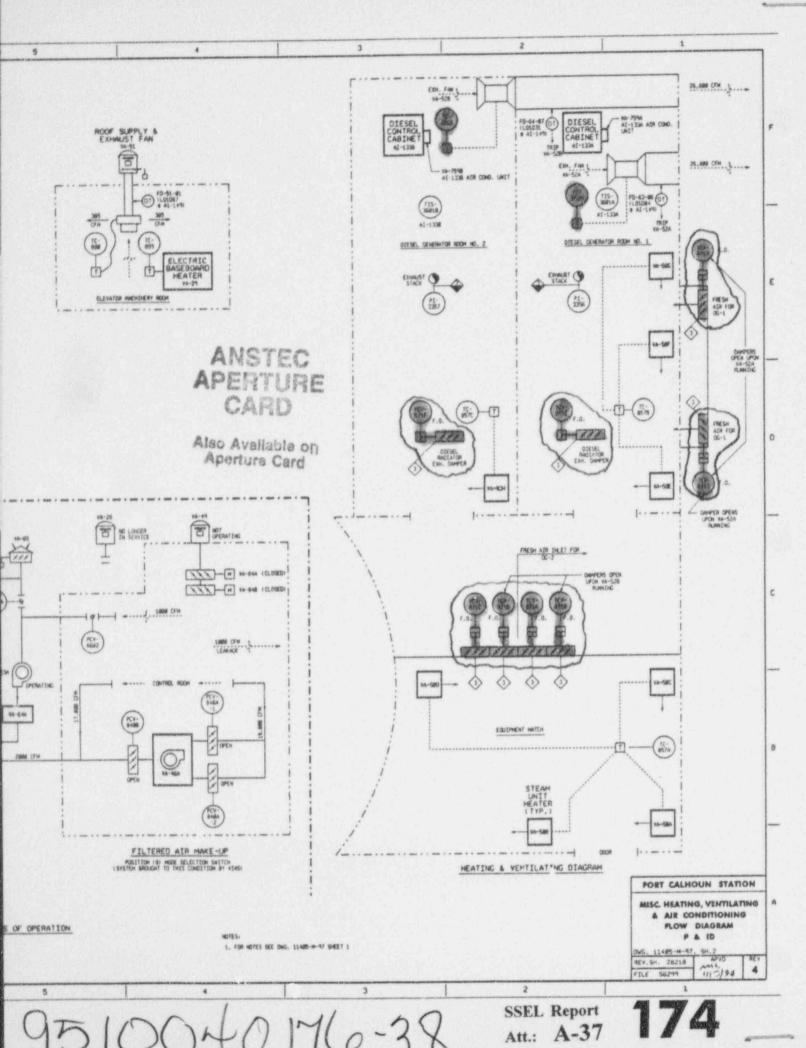
894 AFVO

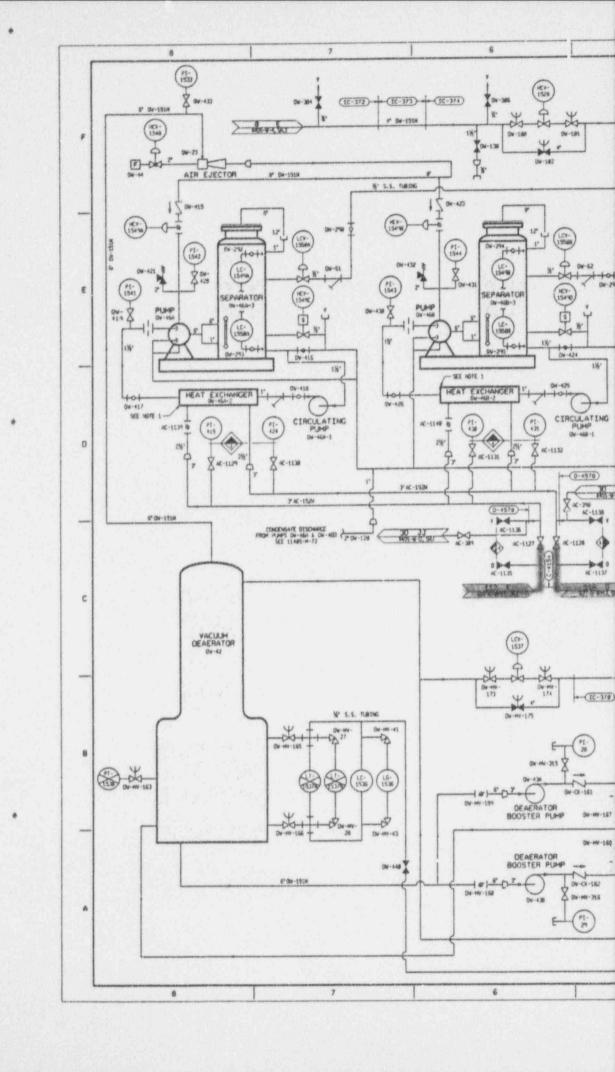
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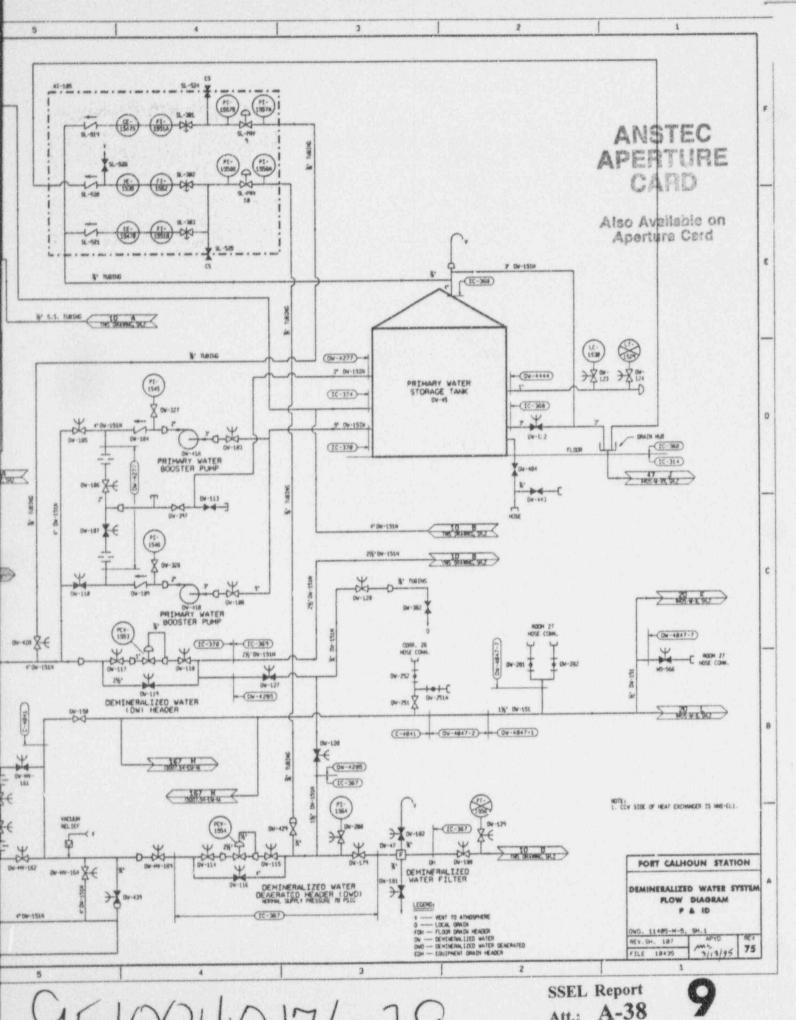
SSEL Report
Att.: A-36



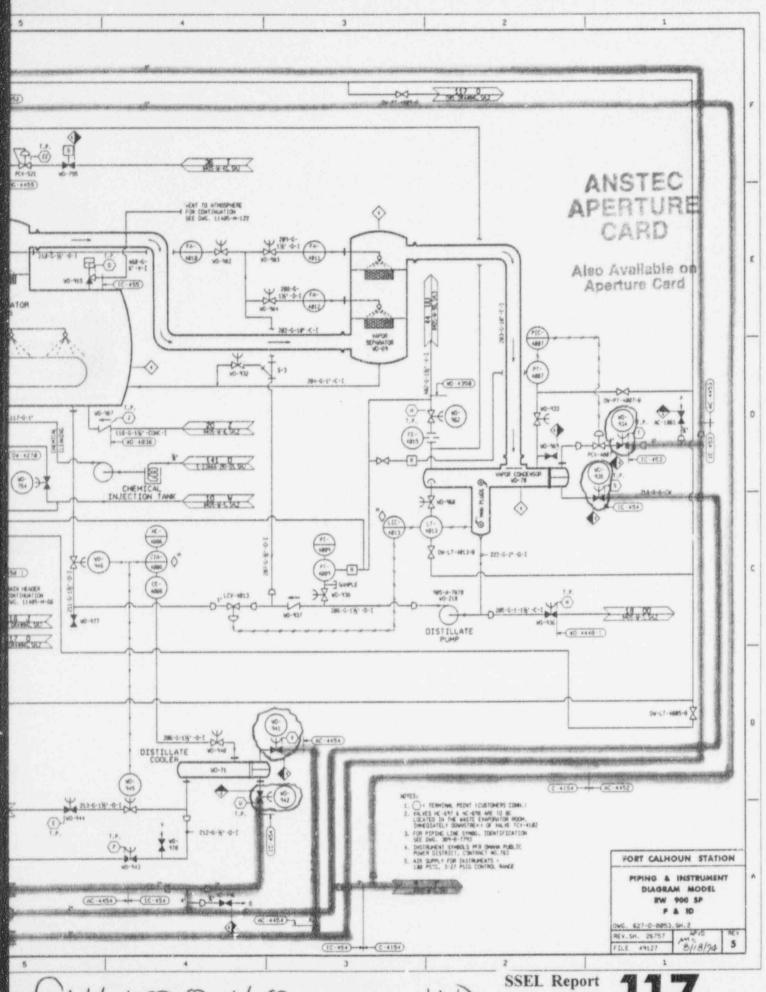




Wast V

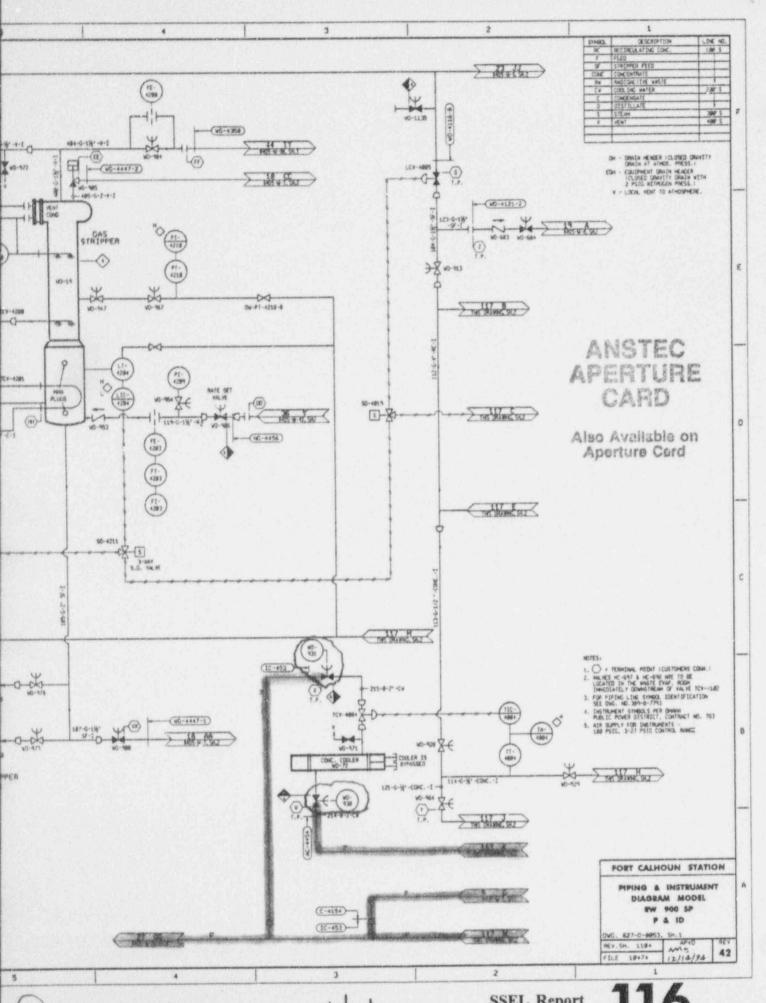


Att.: A-38



SSEL Report Att.: A-39

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SSEL Report
Att.: A-40

ATTACHMENT B

Safe Shutdown Equipment List

SSEL Equipment Drawing (EM)

ATTACHMENT B

NOTES

- This valve is normally closed and is required to be closed for safe shutdown, therefore in accordance with the GIP it is considered passive. It should be noted that FCV-269Y can be either opened or closed for safe shutdown. FCV-269 has been chosen as the boundary valve.
- 2. The position of this valve is not critical for achieving safe shutdown, therefore no further evaluation is required.
- In accordance with the system operating procedures this valve is hand-jacked closed.
 Thus, no evaluation is required.
- 4. For the purpose of safe shutdown, this valve can be either opened or closed. If they are opened and the Reactor Coolant Pumps are operable then they provide an alternate path for pressurizer spray. However, if the Reactor Coolant Pumps are not operating then no driving force exists to provide flow through this valve. In either case, opened or closed, this valve does not impact safe shutdown. Thus, no evaluation is required.
- 6. This valve is normally closed and is required to be closed for safe shutdown, therefore in accordance with the GIP it is considered passive. No relay review is required since this valve is pneumatically controlled. Thus, no evaluation is required.
- 7. This component is not required for safe shutdown. This check valve has been included as a system boundary valve in the event HCV-308 should spuriously open. Check valves are considered inherently rugged and therefore, no further evaluation is required.
- 8. This valve has been electrically disabled by a key locked switch in the control circuit. Not susceptible to contact chatter. Thus, no evaluation is required.

ATTACHMENT B

NOTES

- This valve is electrically locked closed. However, chatter would cause the motor to energize for short periods of time (i.e., less than 1 second). As such, no significant valve movement is expected (Reference 5.64). No evaluation is required.
- 10. This valve is a Raw Water to Component Cooling Water system isolation valve. The downstream CCW isolation valves are hand-jacked closed and the potential for diverted flow does not exist. Thus, no evaluation is required.
- 11. Damper fails open on a loss of air supply.
- Reactor Coolant pump (RCP) motor lube oil coolers are mounted on the RCP's which are included within the NSSS exclusion provision of the SQUG methodology (Ref. OPPD file no. 6806).
- 13. This transfer switch provides a reliable source of 125V DC power to 4160V and 480V switchgear for breaker operation. A relay evaluation for these devices has not been included since a spurious transfer of DC power source will not affect switchgear operation. The DC power sources, busses powered by batteries, are not subject to a single failure and are considered to be reliable.
- 14 This valve is normally closed and required to be closed for safe shutdown. The control circuit for this valve contains no relays (handswitch only), therefore a relay review is not required (Ref. OPPD file no. 218 & 219).
- * The Normal and Req'd Position columns bounded by stars (i.e., "*") were verified and evaluated during the relay review. Otherwise, the Normal and Req'd Position columns were extracted from OPPD's CHAMPS Equipment Database and have not been verified. These fields are included in the SSEL for information only.

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES	
143	IAI-IA3-MTS	20	A	AUX/EE	12234	125 VDC XFER SW REQ FOR 1A3 BUS	EE-4A	56	1011	1A3	EE-8F-CB19	S	NA	NA	13	
1A3	1A3	3	A	AUX/EE	12234	4.16KV DISTRIBUTION BUS	EE-4A	56	1016	HWCI8NIA	1A3-3	S	NA	NA	0	
1A3	1A3-10	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO AC-10C	AC-RW	56	1011	1A3	IA3	SR	*C*	*C*	0	
1A3	1A3-11	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO XFMR T1B-3A	EE-4A	56	1011	1A3	1A3	SR	*C*	*C*	0	
IA3	1A3-12	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO XFMR T1B-3B	EE-4A	56	1011	EA3	1.43	SR	*C*	*C*	0	
1A3	1A3-13	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO XFMR T1B-3C	EE-4A	56	1011	1A3	1A3	SR	*C*	*C*	0	
IA3	1A3-16	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO FW-6	FW-AF	56	1011	1A3	1A3	SR	*0*	*C*	0	
1A3	1A3-20	3	A	AUX/EE	12234	DG1 FEEDE% BREAKER 4.16KV BUS 1A3	DG	56	1011	1A3	DGI	SR	*0*	*C*	0	
1A3	1A3-9	3	A	AUX/EE	12234	4 16KV PLEDER BREAKER TO AC-10A	AC-RW	56	1011	1A3	IA3	SR	*C*	*C*	0	
1A4	1A2-1A4-MTS	20	A	AUXÆE	12234	125 ' DC XFER SW REQ FOR 1A4 BUS	EE-4A	56	1011	1A4	EE-8G-CB15	S	NA	NA	13	
1A4	1A4	3	A	AUX/EE	12234	6 KV DISTRIBUTION BUS	EE-4A	56	1016	16WCI8NIA	1A4-18	S	NA	NA.	0	
184	1A4-1	3	A	AUX/EE	12234	DG2 FEEDER BREAKER 4.16KV BUS 1A4	DG	56	1011	1A4	DG2	SR	*0*	*C*	0	
104	1A4-10	3	A	AUX/EE	127 4	4.16KV FEEDER BREAKER TO XFMR T1B-4A	EE-4A	56	1011	1A4	1A4	SR	*C*	*C*	0	
1A4	IA4-11	3	A	AUX/EE	12 34	4.16KV FEEDER BREAKER TO AC-10B	AC-RW	56	1011	1A4	1A4	SR	*C*	*C*	0	
1A4	1A4-12	3	A	AUX/EE	12,13/	4.16KV FEEDER BREAKER TO AC-10D	AC-RW	56	1011	1A4	1A4	SR	*C*	*C*	0	
IA4	1A4-8	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO XFMR T1B-4C	EE-4A	56	1011	1A4	1A4	SR	*C*	*C*	0	
1A4	1A4-9	3	A	AUX/EE	12234	4.16KV FEEDER BREAKER TO XFMR T1B-4B	EE-4A	56	1011	1A4	1A4	SR	*C*	*C*	0	
1B3A	1B3A	2	A	AUX/EE	12234	480V DISTRIBUTION BUS	EE-4B	56	1011	10WC21N5B	1B3A-1B3A	S	NA	NA	0	
183A	1B3A-1B3A	2	A	AUX/EE	12234	480V FEEDER BREAKER TO 480V BUS 1B3A	EE-4B	56	1011	1B3A	T1B-3A	SR	*C*	*C*	0	
IB3A	1B3A-2	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-3A1	EE-5	56	1011	1B3A	1B3A	S	NA	NA	0	
IB3A	1B3A-3	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-3A2	EE-5	56	1011	IB3A	1B3A	S	NA	NA	0	
1B3A	1B3A-4	2	A	AUX/EE	12234	480V FEEDER BREAKER TO CH-1A	CH	56	1011	1B3A	1B3A	SR	*C*	*C*	0	
1B3A	IB3A-4A-MTS	20	A	AUX/EE	12234	125 VDC XFER SW	EE-4B	56	1011	1B3A-4A	EE-8F-CB14	S	NA	NA	13	
1B3A	1B3A-7	2	A	AUX/EE	12234	480V FEEDER EREAKER TO VA-3A	VA-CON	56	1011	133A	1B3A	SR	*C*	*C*	0	
1B3A	BT-1B3A	2	A	AUX/EE	12234	BUS TIE 480V BUS 1B3A & BUS 1B3A-4A	EE-4B	56	1011	1B3A	1B3A	SR	*C*	*C*	0	
1B3B	1B3B	2	A	AUX/EE	12234	480V DISTRIBUTION BUS	EE-4B	56	1011	10WC9N5B	1B3B-1B3B	S	NA	NA	0	
1B3B	1B3B-1B3B	2	A	AUX/EE	12234	480V FEEDER BREAKER TO 480V BUS 1B3B	EE-4B	56	1011	1B3B	T1B-3B	SR	*C*	*C*	0	
1B3B	1B3B-2	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-3B1	EE-5	56	1011	1B3B	1B3B	S	NA	NA	0	
1B3B	1B3B-4	2	A	AUX/EE	12234	480V FEEDER BREAKER TO AC-3A	AC-CC	56	1011	1B3B	1B3B	SR	*C*	*C*	0	
1838	1B3B-6	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-3B3	EE-4B	56	1011	1838	1B3B	S	C	C	0	
1B3B-4B	1B3B-4B	2	A	AUX/EE	12234	480V DISTRIBUTION BUS	EE-4B	56	1011	10WC9N5B	BT-1B4B	S	NA	NA	0	
1B3B-4B	1B3B-4B-5	2	A	AUX/EE	12234	480V FEEDER BREAKER TO CH-IC	CH	56	1011	1B3B-4B	1B3B-4B	SR	*C*	*C*	0	
1B3B-4B	1B3B-4B-MTS	20	A	AUX/EE	12234	125 VDC XFER SW	EE-4B	56	1011	1B3B-4B	EE-8G-CB20	S	NA	NA	13	
1B3C	1B3C	2	A	AUX/EE	12234	480V DISTRIBUTION BUS	EE-4B	56	1011	10WC10N4A	1B3C-1B3C	S	NA	NA	0	
1B3C	1B3C-1	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-3C1	EE-5	56	1011	IB3C	1B3C	S	NA	NA	0	
1B3C	1B3C-1B3C	2	A	AUX/EE	12234	480V FEEDER BREAKER TO 480V BUS 1B3C	EE-4B	56	1011	1B3C	T1B-3C	SR	*C*	*C*	0	
1B3C	1B3C-2	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-3C2	EE-5	56	1011	IB3C	IB3C	S	NA	NA	0	
1B3C	1B3C-4C-MTS	20	A	AUX/EE	12234	125 VDC XFER SW	EE-4B	56	1011	1B3C-4C	EE-8F-CB12	S	NA	NA	13	
IB3C	BT-1B3C	2	A	AUX/EE	12234	BUS TIE 480V BUS 1B3C & BUS 1B3C-4C	EE-4B	56	1011	:B3C	1B3C	SR	•C•	*C*	0	
1B3C-4C	1B3C-4C	2	A	AUX/EE	12234	480V DISTRIBUTION BUS	EE-4B	56	1011	10WCI0N4A	BT-1B3C	S	NA	NA	0	
1B3C-4C	1B3C-4C-4	2	A	AUX/EE		480V FEEDER BREAKER TO AC-3C	AC-CC	56	1011	1B3C-4C	1B3C-4C	SR	*C*	*C*	0	
IB4A	1B4A	2	A	AUX/EE		480V DISTRIBUTION BUS	EE-4B	56	1011	10ED15S7D	1B4A-1B4A	S	NA	NA	0	
IB4A	1B4A-1	2	A	AUX/EE		480V FEEDER BREAKER TO AC-3B	AC-CC	56	1011	1B4A	184A	SR	*C*	*C*	0	
184A	1B4A-1B4A	2	A	AUX/EE			EE-4B	56	1011	1B4A	TIB-4A	SR	*C*	*C*	0	
1B4A	IB4A-2	2	A	AUX/EE	2000	480V FEEDER BREAKER TO MCC-4A1	EE-5	56	1011	1B4A	1B4A	S	NA	NA	0	
LD4A	1940.7			A SALVANE AND		The state of the s										

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
184A	1B4A-3	2	A	AUX/EE	12234	480V FEEDER BREAKER TO MCC-4A2	EE-5	56	1011	1B4A	1B4A	S	NA	NA	0
1848	1B4B	2	A	AUX/EE		480V DISTRIBUTION BUS	EE-4B	56	1011	10ED12N5B	1B4B-1B4B	S	NA	NA	0
1848	1B4B-1B4B	2	A	AUX/EE	12234	480V FEEDER BREAKER TO 480V BUS 1B4B	EE-4B	56	1911	1848	T1B-48	SR	*C*	*C*	0
IB4B	1B4B-2	2	A	AUX/EE		480V FEEDER BREAKER TO MCC-4B1	EE-5	56	1011	1B4B	1848	S	NA	NA	0
1848	BT-1B4B	2	A	AUX/EE	12234	BUS TIE 480V BUS 1B4B & BUS 1B3B-4B	EE-4B	56	1011	1B4B	1848	SR	*C*	1C+	7
1B4C	IB4C	2	A	AUX/EE		480V DISTRIBUTION BUS	EE-4B	56	1011	15WC4N4D	184C				0
1B4C	1B4C-1B4C	2	A	AUX/EE		480V FEEDER BREAKER TO 480V BUS 1B4C	EE-4B	56	1011	1B4C	TIB-4C	2	NA	NA	0
1B4C	1B4C-2	2	A	AUX/EE			EE-5	56	1011	1B4C	1B4C	SR	*C*	*C*	0
1B4C	1B4C-6	2	A	AUX/EE	12234	480V FEEDER BREAKER TO CH-1B	CH	56	1011	IB4C	IB4C	S	NA	NA	0
1B4C	1B4C-7	2	A	AUX/EE	12234		EE-4B	56	1011	IB4C		SR	*C*	*C*	0
IB4C	1B4C-8	2	A	AUX/EE	12234	480V FEEDER BREAKER TO VA-3B	VA-CON	-	1011	IB4C	IB4C	S	C	C	0
A/LT-911	A/LT-911	18	A	DHR	21360		MS	CONT	1002	8WDD8NII	1B4C	SR	*C*	*C*	0
A/LT-912	A/LT-912	18	Α	DHR	21361	RC-2B LEVEL INDICATION	MS	CONT	1002		NA	S	NA	NA	0
A/PT-120	A/PT-120	18	A	PC		PZR PRESSURE	RC	CONT	1018	9WEE39NIII	NA	S	NA	NA	0
A/PT-913	A/PT-913	18	A	DHR		RC-2A PRESSURE INDICATION	MS	CONT		18WDD12NB	NA	5	NA	NA	0
A/PT-914	A/PT-914	18	A	DHR	21361		MS	CONT	1002	08WDD07NII 9WEE39NIII	NA	S	NA	NA	0
A/TE-112C	A/TE-112C	19	A	DHR	16294	RCS TEMPERATURE ELEMENT	RC	CONT	1008	10WBB26NII	NA	2	NA	NA	0
A/TE-112H	A/TE-112H	19	A	DHR		RCS TEMPERATURE ELEMENT	RC	CONT	1008		NA	5	NA	NA	0
A/TE-122C	A/TE-122C	19	A	DHR	16082		RC	CONT	-	24WBB25NII	NA	2	NA	NA	0
A/TE-122H	A/TE-122H	19	A	DHR	16082		RC	CONT	1008	18WCC18NIII	NA	S	NA	NA	0
AC-10A	AC-10A	6	A	AUX/RW		RW PUMP	AC-RW	INTK	0994	2WCC18NIII	NA	S	NA	NA.	0
AC-10A	AC-10A-M	6	A	AUX/RW		RW PUMP MOTOR		INTK	0994	IECCISI03	NA	S	ON	ON	0
AC-10B	AC-10B	6	Α	AUX/RW		RW PUMP		INTK	0994	IECCISIO3 IECCINIO3	1A3-9	5	NA	NA	0
AC-10B	AC-10B-M	6	Α	AUX/RW	10454	RW PUMP MOTOR	AC-RW		0994		NA	S	ON	ON	0
AC-10C	AC-10C	6	A	AUX/RW		RW PUMP	AC-RW		0994	IECCINI03 IEECISI04	IA4-11	S	NA	NA	0
AC-10C	AC-10C-M	6	Α	AUX/RW		RW PUMP MOTOR	AC-RW		0994		NA IA	S	ON	ON	6
AC-10D	AC-10D	6	A	AUX/RW		RW PUMP	AC-RW		0994	IECCINI04	IA3-10	S	NA	NA	0
AC-10D	AC-10D-M	6	A			RW PUMP MOTOR	AC-RW		0997	1ECCIN104	NA 1A4-12	S	ON	ON	0
AC-12A	AC-12A	0	A	AUX/RW	10454	RAW WATER STRAINER		INTK	994			S	NA	NA	0
AC-12A	AC-12A-M	0	A	AUX/RW	43125	RAW WATER STRAINER MOTOR		INTK	1001	3WBB-3N102		S	ON	ON	0
AC-12B	AC-12B	0	A	AUX/RW		RAW WATER STRAINER	AC-RW		994		MCC-3B3-A04	SR	NA	NA	0
AC-12B	AC-12B-M	0	A	AUX/RW	43125	RAW WATER STRAINER MOTOR	AC-RW	3000000	999	13WBB-16N1		S	ON	ON	0
AC-IA	AC-1A	21	P	AUX/CCW			AC-CC		0994		MCC-4C4-D07	SR	NA	NA	0
AC-1B	AC-1B	21	P	AUX/CCW	55195	CCW HX	AC-CC		1003	06WD18N5B 06WD18N5B	NA	S	NA	NA	0
AC-IC	AC-IC	21	P	AUX/CCW	55195	CCW HX	AC-CC		0994		NA	S	NA	NA	0
AC-1D	AC-ID	21	P	AUX/CCW	55195	CCW HX	AC-CC		0996	23WC24N4A	NA	S	NA	NA	0
AC-2	AC-2	21	P	AUX/CCW	55195	CCW SURGE TANK	AC-CC			23WC24N5B	NA	S	NA	NA	0
AC-3A	AC-3A	5	A	AUX/CCW	55195	CCW PUMP	AC-CC		1030	6WL24N7A	NA	S	NA	NA	0
AC-3A	AC-3A-M	5	A			CCW PUMP MOTOR	AC-CC		1027	IWN9N7A	NA	S	ON	ON	0
AC-3B	AC-3B	5	A			CCW PUMP	AC-CC		1027	4WN9N7A	1B3B-4	2	NA	NA	0
AC-3B	AC-3B-M	5	A			CCW PUMP MOTOR			1027	01WN04S8A	NA	S	ON	ON	0
AC-3C	AC-3C	5	A			CCW PUMP	AC-CC AC-CC		1027	04WN04S8A	1B4A-1	S	NA	NA	0
AC-3C	AC-3C-M	5	A			CCW PUMP MOTOR			1027	01WN03N8A	NA IDAG IG	S	ON	ON	0
AC-4A	AC-4A	21	P			SHUTDOWN COOLING HEAT EXCHANGER	AC-CC		1027	04WN03N8A	1B3C-4C-4	S	NA	NA	0
AC-4B	AC-4B	21	p			SHUTDOWN COOLING HEAT EXCHANGER	AC-CC		0994		NA	2	NA	NA	0
	M. S. C. Y.					THE THE PARTY IN T	AL-CC	13	0994	13WE-17S7A	NA	S	NA	NA	0

зох	ASSEL.		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
AC-8	AC-8	21	P	AUX/CCW	41741	STORAGE POOL HEAT EXCHANGER	AC-SFP	5	0995	9WR-0N5C	NA	S	NA	NA	0
AI-10B	B/TMI-112C/122C	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	77	1036	AI-10B	NA	S	NA	NA	0
AI-10B	B/TMI-112H/122H	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	77	1036	AI-10B	NA	S	NA	NA	0
AI-10B	B/TMO-112C/122C	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	77	1036	AI-10B	NA	S	NA	NA	0
AI-10B	B/TMO-112H/122H	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	77	1036	Al-10B	NA	S	NA	NA	0
AI-10B	Q-1110/1188	20	A	DHR	21349	POWER SUPPLY	FW	77	1036	AI-10B	NA	S	NA	NA	0
AI-12	FM-1368-1	20	A	DHR	15861	FW-6 SUCTION FLOW SIGNAL CONVERTER	FW-AF	77	1036	Al-12	PQ-1368-1	S	Nes	NA	0
AI-12	FM-1368-2	20	A	DHR	15861	FW-6 SUCTION FLOW SQUARE ROOT EXTRACTOR MODUL	FW-AF	77	1036	AI-12	FQ-1368-1	S	NA	NA	0
AI-12	FM-1368-3	20	A	DHR	15861	FW-6 SUCTION FLOW OUTPUT SIGNAL CONVERTER	FW-AF	77	1036	AI-12	FQ-1368-1	S	NA	NA	0
AI-12	FM-1369-1	29	A	DHR	15861	FW-10 SUCTION FLOW SIGNAL CONVERTER	FW-AF	77	1036	AI-12	FQ-1369-1	S	NA	NA	0
Al-12	FM-1369-2	20	A	DHR	15861	FW-16 SUCTION FLOW SQUARE ROOT EXTRACTOR MODU	FW-AF	77	1036	AI-12	FQ-1369-1	S	NA	NA	0
AI-12	FM-1369-3	20	A	DHR	15861	FW-10 SUCTION FLOW OUTPUT SIGNAL CONVERTER	FW-AF	77	1036	AI-12	FQ-1369-1	S	NA	NA	0
AJ-12	FQ-1368-1	20	A	DHR	15861	FW-6 SUCTION FLOW POWER SUPPLY	FW-AF	77	1036	AI-12	AJ-42A-5	S	NA	NA	0
AJ-12	FQ-1369-1	20	A	DHR	15861	FW-10 SUCTION FLOW POWER SUPPLY	FW-AF	77	1036	AI-12	A:-42B-7	S	NA	NA	0
AJ-133A	DP1-D1	2	A	AUX/EE	17408	480VAC DISTRIBUTION PANEL	EE	63	1007	AI-133A	DPI-DI-MAIN-	S	NA	NA	0
AI-133A	DP1-D1-3	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO SLO & JW-2-1-M	LO	6.3	1007	AI-133A	DP1-D1	S	NA	NA	0
AI-133A	DP1-D1-4	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO LO-40-1-MS	LO	63	1007	AI-133A	DP1-D1	S	NA	NA.	0
AI-133A	DP1-D1-5	2	Α.	AUX/EE	17408	480VAC FEEDER BREAKER TO 8FT1 & 8FT2	EE	63	1007	Al-133A	DPI-D1	S	NA	NA	0
AI-133A	DP1-D1-MAIN-1	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO DIST PANEL DP1	EE	63	1007	AI-133A	ATA-DI	S	NA	NA	0
AJ-133A	DPI-DI-MAIN-2	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO DIST PANEL DP1	EE	63	1007	AJ-133A	ATA-DI	S	NA	NA	0
AJ-133A	DP1-D1-SLO	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO LO-33-1-M	LO	63	1007	AI-133A	DP1-D1-3	S	NA	NA	0
AI-133A	DP2-D1-1	14	A	AUX/EE	17408	125VDC POWER TO FIELD FLASH, EXCITER & VOLT R	EE-8A	63	1007	AI-133A	DP2-D1	S	NA	NA	0
AI-133A	DP2-D1-2	14	A	AUX/EE	17408	125VDC POWER TO ENGINE CTRL PANEL	EE-8A	63	1007	AI-133A	DP2-D1	S	NA	NA	0
AJ-133A	DP2-D1-3	14	A	AUX/EE	17408	125VDC POWER TO DIESEL DAMPERS	EE-8A	63	1007	AI-133A	DP2-D1	S	NA	NA	0
AS-133A	DP2-D1-MAIN	14	A	AUX/EE	17408	125VDC POWER TO PNL DP2-D1	EE-8A	63	1007	AI-133A	ATD-D1	S	NA	NA	0
AI-133B	DP1-D2	2	A	AUX/EE	17408	480VAC DISTRIBUTION PANEL	EE	64	1007	AI-133B	DP1-D2-MAIN-	S	NA	NA	0
AI-133B	DP1-D2-3	2	A	AUX/EE	17408	480V AC FEEDER BREAKER TO SLO & JW-2-2	LO	64	1007	AI-133B	DP1-D2	S	NA	NA.	0
AI-133B	DP1-D2-4	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO LO-40-2-MS	LO	64	1007	AI-133B	DP1-D2	S	NA	NA	0
AI-133B	DP1-D2-5	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO 8FT1 & 8FT2	EE	64	1007	AI-133B	DP1-D2	S	NA	NA	0
AI-133B	DP1-D2-MAIN-1	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO DIST PANEL DP2	EE	64	1007	AI-133B	ATA-D2	S	NA	NA	0
AI-133B	DP1-D2-MAIN-2	2	A	AUX/EE	17408	480VAC FEEDER BREAKER TO DIST PANEL DP2	EE	64	1007	AI-133B	ATA-D2	S	NA	NA	0
AI-133B	DP1-D2-SLO	2	A	AUX/EE	17408		LO	64	1007	Al-133B	DP1-D2-3	S	NA	NA	0
AI-133B	DP2-D2-1	14	A	AUX/EE			EE-8A	64	1007	AJ-133B	DP2-D2	S	NA	NA	0
AI-133B	DP2-D2-2	14	A	AUX/EE	17408	125VDC POWER TO ENGINE CTRL PANEL	EE-8A	64	1007	AI-133B	DP2-D2	S	NA	NA	0
AI-133B	DP2-D2-3	14	A	AUX/EE	17408	125VDC POWER TO DIESEL DAMPERS	EE-8A	64	1007	AI-133B	DP2-D2	S	NA	NA	0
AI-133B	DP2-D2-MAIN	14	A	AUX/EE	17408	125VDC POWER TO PNL DP2-D2	EE-8A	64	1007	AI-133B	ATD-D2	S	NA	NA	0
AI-179	43/RC-2B	20	A	INV	2111	AFW CONTROLS TRANSFER SWITCH	FW-AF	77	1013	Al-179	NA	S	NA	NA	0
AI-179	HIC-1107B-1	20	A	DHR	15793	HAND/INDICATING CONTROL SWITCH FOR HCV-1107B	FW-AF	57	1013	AI-179	NA	S	NA	NA	0
AI-179	HIC-1108B-1	20	A	DHR	15794	HAND/INDICATING CONTROL SWITCH FOR HCV-1108B	FW-AF	57	1013	AI-179	NA	S	NA	NA	0
AI-179	PM-115	20	A.	DHR	2111	PRESSURE MODIFIER	RC	57	1013	AI-179	INV-C-01	S	NA	NA.	0
AI-179	PQ-115	20	A	DHR	2111	LOOP POWER SUPPLY	RC	57	1013	AJ-179	INV-C-01	S	NA	NA	0
AI-185	LI-101Y	20	A	INV	16956	LEVEL INDICATOR FOR PRESSURIZER LEVEL	RC	57	1013	AI-185	INV-D-01	S	NA	NA	0
AI-185	LQ-10!Y	20	A	INV	16956	LOOP POWER SUPPLY FOR PRESSURIZER LEVEL	RC	57	1036	AI-185	INV-D-01	S	NA	NA	0
AI-196	A/PA-120-1	20	A	PC	40239	PRESSURE SIGNAL ISOLATOR FOR PRESSURIZER PRES	RC	57	1013	AI-196	NA .	S	NA	NA	0
Al-196	A/FA-120-2	20	A	PC	40239	PRESSURE SIGNAL ISOLATOR FOR PRESSURIZER PRES	RC	57	2013	AI-196	NA	S	NA	NA	0

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AI-196	A/PC-120	20	A	PC	40239	PRESSURE CONTROLLER FOR PRESSURIZER PRESSURE	RC	57	1013	AI-196	NA	S	NA	NA	0
Al-196	A/PM-120	20	A	PC	40239	PRESSURE SIGNAL CONVERTER FOR PRESSURIZER PRE	RC	57	1013	Al-196	NA	S	NA	NA	0
Al-197	B/PA-120-1	20	A	PC	40239	PRESSURE SIGNAL ISOLATOR FOR PRESSURIZER PRES	RC	56	1011	AI-197	NA	5	NA	NA	0
AI-197	B/PA-120-2	20	A	PC	40239	PRESSURE SIGNAL ISOLATOR FOR PRESSURIZER PRES	RC	56	1011	Ai-197	NA	S	NA	NA	0
AJ-197	B/PC-120	20	A	PC	40239	PRESSURE CONTROLLER FOR PRESSURIZER PRESSURE	8C	56	1011	AJ-197	NA	5	NA	NA	0
AI-197	B/PM-120	20	Α	PC	40239	PRESSURE SIGNAL MODIFIER FOR PRESSURIZER PRES	RC	56	1011	AI-197	NA	S	NA	NA	0
AJ-208A	QSPDS-A	20	A	DHR	16294		PC-OSP	77	1036	AI-208A	NA	5	NA	NA	0
AI-208B	QSPDS-B	20	A	DHR	16294	RCS QSPDS SUBCOOLED MARGIN MONITOR B	PC-QSP		1036	AJ-208B	NA	5	NA	NA	0
AI-212	NI-001-DA1	20	P	RC	24276	INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AI-NI	UNK	UNK	AI-212	NA	5	NA	NA	0
AI-212	NI-004	20	P	RC	24276	INDICATOR FOR NUETRON FLUX MONITORING	AI-NI	57	1013	AI-212	INV-D-01	5	NA	NA	0
AI-212	NI-004-DA1	20	P	RC	24276	INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AI-NI	UNK	UNK	Al-212	NA.	\$	NA		
AI-212	NR-004	20	P	RC	24276	RECORDER FOR NUETRON FLUX MONITORING	AI-NI	57	1013	AI-212	ENV-D-01	5	NA.	NA	0
AI-214	A/TM-112CA	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	S	NA NA	NA.	0
AI-214	A/TM-112CB	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	S	NA NA	NA NA	0
Al-2!4	A/TM-112CC	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	5	NA		0
AI-214	A/TM-112HA	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	S	NA	NA	
AI-214	A/TM-112HB	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	5	NA NA	NA	0
AI-214	A/TM-112HC	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	S	NA	NA NA	0
AI-214	A/TM-122CA	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	Al-214	NA	5	NA		
AI-214	A/TM-122CB	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	5	NA	NA NA	0
AI-214	A/TM-122CC	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	5	NA NA	NA NA	0
AI-214	A/TM-122HA	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	S	NA	NA	0
Al-214	A/TM-122HB	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA		NA	NA	0
AI-214	A/TM-122HC	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-214	NA	6	NA		
AJ-214	A/TT-112CA	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	3989	Al-214	NA	S	NA	NA NA	0
AI-214	A/TT-112CB	18	A	DHR	16294	RCS TEMPERAT* IRE TRANSMITTER	RC	20	0989	AI-214	NA	5	NA	NA.	0
AI-214	A/TT-112HA	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-214	NA	8	NA	NA	0
AI-214	A/TT-112HB	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-214	NA	8	NA	NA	0
AJ-214	A/TT-122CA	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-214	NA	S	NA	NA	0
Af-214	A/TT-122CB	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	26	0989	Al-214	NA	5	NA	NA	
AI-214	A/TT-122HA	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-214	NA	S	NA	NA	0
AI-214	A/TT-122HB	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-214 *	NA	5	NA	NA	0
Al-214	A/TY-112H	18	A	DHR	16294	RCS LOOP 1 COMPENSATOR	RC	20	0989	AI-214	NA	S	NA	NA	
AI-214	A/TY-122H	18	A.	DHR	16082	RCS LOOP 2 COMPENSATOR	RC	20	0989	AI-214	NA	S	NA	NA	0
AI-215	B/TM-112CA	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	5	NA	NA	
AI-215	B/TM-112CB	20	A	DHR	15294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-215	B/TM-112CC	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA		NA		0
AI-215	B/TM-112HA	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AJ-215	NA	S	NA	NA	0
AI-215	B/TM-112HB	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-215	B/TM-112HC	20	A	DHR	16294	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S		NA.	0
AI-215	B/TM-122CA	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	5	NA.	NA	0
AI-215	B/TM-122CB	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S	NA.	NA	0
AI-215	B/TM-122CC	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S	NA NA	NA	0
AI-215	B/TM-122HA	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	5	NA NA	NA	0
AI-215	B/TM-122HB	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S	NA NA	NA NA	0

BGX	ASSE1.		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
AJ-21	5 B/TM-122HC	20	A	DHR	16082	RCS TEMPERATURE SIGNAL MODIFIER	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-21	5 B/TT-112CA	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-21	5 B/TT-112CB	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-215	NA	S	NA	NA	0
AJ-21	5 B/TT-112HA	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AJ-215	NA	S	NA	NA	0
AI-21	5 B/TT-112HB	18	A	DHR	16294	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-21	5 B/TT-122CA	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-21	5 B/TT-122CB	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	20	0989	AI-215	NA	S	NA	NA	0
AJ-21	5 B/TT-122HA	18	A	DHR	16082	RCS TEMPERATURE TRANSMETTER	RC	20	0989	A3-215	NA.	S	NA	NA	0
AI-21	5 B/TT-122HB	18	A	DHR	16082	RCS TEMPERATURE TRANSMITTER	RC	20	0989	At 215	NA	S	NA	NA	9
A1-21	5 B/TY-112H	18	A	DHR	16294	RCS LOOP 2 COMPENSATOR	RC	20	0989	AI-215	NA	S	NA	NA	0
AI-21	5 B/TY-122H	18	A	DHR	16082	RCS LOOP 2 COMPENSATOR	RC	20	0989	AI-215	NA	S	NA	NA	0
AJ-40	AI-40A-1	14	A.	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR CB-3	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA	0
AI-40	IA AI-40A-12	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-214	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA	0
AJ-40	Al-40A-16	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-40A	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA	0
AI-40	A AI-40A-17	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR DIST BUS I-BUS-A1	EE-8B	77	1036	AI-40A	1-BUS-A	S	NA	NA	0
A3-40	AI-40A-18	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-196	EE-8B	77	1038	Al-40A	I-BUS-A	S	NA	NA	0
AI-40	Al-40A-2	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL CB-4 AUX	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA	0
AI-40	AI-40A-20	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL CB-1,2,3 & C	EE-8B	77	1036	AI-40A	I-BUS-A1	S	NA	NA	0
AI-40	A AI-40A-21	14	Α	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-30B	EE-8B	77	1036	Al-40A	I-BUS-A1	S	NA	NA	c
AI-40	AI-40A-22	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR QSPDS-A AI-208A	EE-8B	77	1036	AI-40A	I-BUS-A1	S	NA	NA	0
A1-40	AI-40A-3	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-31A	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA.	0
AI-40		14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR CB-4		77	1036	AI-40A	I-BUS-A	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR VA-81A	VA-CON		1036	AI-40A	I-BUS-A	S	NA	NA	0
AJ-40	A AI-40A-7	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-4A	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA	0
AJ-40		14	A	AUX/EE	100000000000000000000000000000000000000	120VAC CIRCUIT BREAKER FOR PANEL AI-184A	EE-8B	77	1036	AJ-40A	I-BUS-A	S	NA	NA	0
A1-40		14	A	AUXÆE		120VAC CIRCUIT BREAKER FOR PANEL AI-57	EE-8B	77	1036	AI-40A	I-BUS-A	S	NA	NA	0
A!-40		14	A	AUX/EE			EE-8B	77	1036	AJ-40A	EE-8H	S	NA	NA	0
AJ-40		14	A	AUX/EE		120VAC PANEL DISTRIBUTION BUS	EE-8B	77	1036	AI-40A	AI-40A-17	S	NA	NA	0
A1-40		14	A	AUX/EE		120VAC FEEDER BREAKER TO DIST BUS I-BUS-A	EE-8B	77	1036	AI-40A	EE-8H	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL CB-3	EE-8B	77	1036	AI-40B	I-BUS-B	S	NA	NA	0
AJ-40	The second second	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-66B	EE-8B	77	1036	AI-40B	I-BUS-B	S	NA	NA	0
A1-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-54B	EE-8B	77	1036	A1-40B	I-BUS-B	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-197	EE-8B	77	1036	AI-40B	I-BUS-B	S	NA	NA	0
A1-40		14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-30B		77	1036	AI-40B	I-BUS-B	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR VA-81B	VA-CON		1036	AI-40B	I-BUS-B	S	NA	NA	0
A1-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-33A	EE-8B	77	1036	AI-40B	1-BUS-B	S	NA	NA	0
AI-40	Service of the servic	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-215	EE-8B	UA	UA	AJ-40B	I-BUS-B	S	NA	NA	0
A1-40		14	A	AUXÆE		120VAC CIRCUIT BREAKER FOR DIST BUS I-BUS-B1	EE-8B	77	1036	AI-40B	I-BUS-B	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-30A	EE-8B	77	1036	AI-40B	I-BUS-B1	S	NA	NA	0
AI-40		14	A	AUXÆE		120VAC CIRCUIT BREAKER FOR PANEL AI-184A	EE-8B	77	1036	AI-40B	I-BUS-B	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR QSPDS-B AI-208B	EE-8B	77	1036	AI-40B	I-BUS-B1	S	NA	NA	0
AI-40		14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL CB-1,2,3 & C	EE-8B	77	1036	AJ-40B	I-BUS-B1	S	NA	NA	0
A1-40		14	A	AUXÆE		120VAC CIRCUIT BREAKER FOR PANEL CB-4	EE-8B	77	1036	AJ-40B	I-BUS-B	S	NA	NA	0
,1.40	-	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-4B	EE-8B	77	1036	AJ-40B	I-BUS-B	S	NA	NA	0
AI-40	B AI-40B-6	14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL CB-4AUX	EE-8B	77	1036	AI-40B	I-BUS-B	S	NA	NA	0

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQU	NOTES
AI-40B	A3-40B-7	14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-31B	EE-8B	77	1036	AI-408	I-BUS-B	2	NA	NA	0
AI-40B	AI-40B-8	14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-65B	EE-8B	77	1036	AJ-40B	I-BUS-B	S	NA	NA	0
AJ-40B	A1-40B-9	14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-57	EE-8B	77	1036	A1-40B	1-BUS-B	S	NA	NA	0
AI-40B	I-BUS-B	14	A	AUX/EE	12234	120VAC PANEL DISTRIBUTION BUS	EE-88	77	1036	AI-40B	EE-8J	S	NA	NA	0
AI-40B	I-BUS-BI	14	A	AUX/EE	12234	120VAC PANEL DISTRIBUTION BUS	EE-8B	77	1036	AI-40B	AI-40B-17	5	NA	NA	0
AI-40B	I-B(15-191-1	14	Α.	AUX/EE	48119	120VAC FEEDER BREAKER TO DIST BUS I-BUS-B	EE-8B	77	1036	AI-40B	EE-8J	S	NA	NA	0
AI-40C	A1-40C-1	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR CB-3	EE-8B	77	1036	AI-40C	I-BUS-C	S	NA	NA	0
Al-40C	AI-40C-11	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR AI-10B	EE-8B	77	1036	AI-40C	I-BUS-C		NA	NA	0
AJ-40C	AI-40C-13	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR RM-050/051	RM	77	1036	AI-40C	I-BUS-C	5	NA	NA	0
AI-40C	AI-40C-17	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR DIST BUS I-BUS-CI	EE-8B	77	1036	AI-40C	1-BUS-C	5	NA	NA	0
AI-40C	AI-40C-19	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-33A	EE-8B	77	1036	AI-40C	I-BUS-CI	8	NA	NA	0
A1-40C	AI-40C-2	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-65A	EE-8B	77	1036	Al-40C	I-BUS-C	5	NA	NA	0
AI-40C	AJ-40C-21	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-45	EE-8B	77	1036	AI-40C	1-BUS-CI	S	NA	NA	0
AI-40C	AI-40C-3	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-31C	EE-8B	77	1036	Al-40C	I-BUS-C	8	NA	NA	0
AI-40C	AI-40C-4	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-66A	EE-8B	77	1036	AI-40C	I-BUS-C	5	NA	NA	0
AI-40C	AI-40C-5	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR CB-4	EE-8B	77	1036	AI-40C	1-BUS-C	5	NA	NA	0
AI-40C	A1-40C-6	14	A	AUXÆE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-198	EE-8B	77	1036	AI-40C	I-BUS-C	5	NA	NA.	0
AI-40C	AI-40C-7	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AI-57	EE-8B	77	1036	AI-40C	1-BUS-C	6	NA	NA	0
AJ-40C	AI-40C-8	14	A	AUX/EE	12245	120VAC CIRCUIT BREAKER FOR PANEL AJ-216	EE-8B	77	1036	AI-40C	I-BUS-C	8	NA	NA.	0
AI-40C	AI-80C-9	14	A	AUX/EE	12245		EE-8B	77	1036	AI-40C	I-BUS-C	6	NA NA		0
AI-40C	1-BUS-C	14	A	AUX/EE	12234	120VAC PANEL DISTRIBUTION BUS	EE-8B	77	1036	AI-40C	EE-8K	5		NA	
AI-40C	I-BUS-C1	1-5	A	AUX/EE	12234	120V AC PANEL DISTRIBUTION BUS	EE-8B	77	1036	Al-40C	AI-40C-17	S	NA NA	NA	0
AI-40C	I-BUS-IC-1	14	A	AUX/EE	12245	120VAC FEEDER BREAKER TO DIST BUS I-BUS-C	EE-8B	77	1036	AI-40C	EE-8K	5	NA NA	NA	
AI-40D	AJ-40D-1	14	A	AUX/EE	48119		EE-8B	77	1036	AI-40D	I-BUS-D	S		NA	0
AI-40D	A1-40D-10	14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-21	EE-8B	77	1036	AI-40D	I-BUS-D	5	NA	NA	0
AI-40D	AI-40D-11	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-10A	EE-8B	77	1036	AI-40D	I-BUS-D	5	NA	NA	0
AJ-40D	AI-40D-13	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-10B	EE-8B	77	1036	Al-40D	I-BUS-D	S	NA	NA	0
AI-40D	AI-40D-17	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR BUS I-BUS-D1	EE-8B	77	1036	Al-40D	I-BUS-D	6	NA NA	NA	0
AI-40D	AI-40D-19	14	A	AUXÆE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-33B	EE-8B	77	1036	AI-40D	I-BUS-DI	5		NA	0
AI-40D	AI-40D-21	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-45	EE-8B	77	1036	AI-40D	I-BUS-DI	S	NA	NA	0
AI-40D	AI-40D-3	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-31D	EE-8B	77	1036	Al-40D	I-BUS-D	5	NA	NA .	0
Al-40D	AI-40D-4	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-65B	EE-8B	77	1036	AI-40D	I-BUS-D		NA	NA	0
Al-40D	AI-40D-5	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL CB-4	EE-8B	77	1036	AJ-40D	I-BUS-D	S	NA	NA	0
A1-40D	Al-4GD-5	14	A	AUX/EE	48119	120VAC CIRCUIT BREAKER FOR PANEL AI-66B	EE-8B	77	1036	AI-40D	I-BUS-D	S	NA	NA	0
Al-40D	AI-40D-7	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-57	EE-8B	77	1036	AI-40D	I-BUS-D		NA	NA	0
AI-40D	AI-40D-9	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-33A	EE-8B	77	1036	AI-40D		S	NA	NA	0
AI-40D	I-BUS-D	14	A	AUX/EE		120VAC PANEL DISTRIBUTION BUS	EE-8B	77	1036	AI-40D	I-BUS-D	S	NA	NA	0
AI-40D	I-BUS-DI	14	A	AUX/EE		120VAC PANEL DISTRIBUTION BUS	EE-8B	77	1036	AI-40D	EE-82.	S	NA	NA	0
AI-40D	1-BUS-ID-1	14	A	AUX/EE		120VAC FEEDER BREAKER TO DIST BUS I-BUS-D	EE-8B	77	1036		AI-40C-17	S	NA	NA	6
AI-41A	AI-41A-1	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL AI-107	EE-8A	77	-	AI-40D	EE-8L	S	NA	NA.	0
AI-41A	AJ-41A-10	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL AI-44	EE-8A	77	1036	AI-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	Al-41A-11	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL AI-128A		77	1036	AI-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	AI-41A-12	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL CB-1,2,3 & C		77	1036	AI-41A	DC-BUS-AI-41	S	NA	NA	0
Al-41A	AI-41A-13	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL AI-30B		77	1036	Al-41A	DC-BUS-AI-41	5	NA	NA	0
AI-41A	AI-41A-14	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL CB-10,11			1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
			-	- ALIVERIA		THE CONCENT DALLARDA FOR PAREL CD-10,11	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0

BOX	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
AI-41A	AI-41A-15	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-190	EE-8A	77	1036	AI-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	AI-41A-16	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR CB-20	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	AI-41A-17	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-45	EE-8A	77	1036	AI-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	AI-41A-2	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-66A	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	Al-41A-3	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL CB-4AUX	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
AL4IA	AI-41A-4	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL At-50	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
Al-41A	AI-41A-5	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-45	EE-8A	77	1036	AI-41A	DC-BUS-Al-41	S	NA	NA	0
AI-41A	AI-41A-6	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-30A	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
AI-41A	AI-41A-7	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-65A	EE-8.A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
Al-41A	AI-41A-8	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-43A	EE-8A	77	1036	AI-41A	DC-BUS-AI-41	S	NA	NA	. 0
Al-41A	At-41A-9	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANELS AI-54A, B &	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
AJ-41A	AJ-41A-MAIN	14	A	AUX/EE	42195	125VDC MAIN CIRCUIT BREAKER FOR PANEL AI-41A	EE-8A	77	1036	Al-41A	DC-BUS-AI-41	S	NA	NA	0
Al-41A	AI-41A-MTS	14	A	AUX/EE	42195	MTS 125VDC BUS#1 TO BUS#2	EE-8A	77	1036	Al-41A	EE-8F-CB20	S	NA	NA	0
AI-41A	DC-BUS-AI-41A	14	A	AUX/EE	42195	125VDC PANEL BUS	EE-8A	77	1036	AI-41A	EE-8F-CB20	S	NA	NA	0
AI-41B	AI-41B-1	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-107	EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AJ-41B	AI-41B-10	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-44	EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-11	14	. A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-128B	EE-8A	77	1036	Al-41B	DC-BUS-Ai-41	S	NA	NA	0
Al-41B	AI-41B-12	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL CB-1,2,3 & C	EE-8A	77	1036	Al-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-13	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-30A	EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	Ai-41B-14	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL CB-10,11	EE-8A	77	1036	Al-41B	DC-BUS-AI-41	S	NA	NA	0
Al-41B	AI-41B-15	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR AE-2	EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-16	14	A	AUX/EE			EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-17	14	A	AUX/EE	42195	125VDC CIRCUIT BREAKER FOR PANEL AI-65B	EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	Al-41B-3	14	A	AUX/EE			EE-8A	77	103%	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-4	14	A	AUX/EE	42195		EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
Al-41B	AI-41B-5	14	A	AUX/EE			EE-8A	77	1036	Al-41B	DC-BUS-AI-41	S	NA	NA	0
Al-4!B	AI-41B-6	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL AI-30B	EE-8A	77	1036	Al-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-7	14	A	AUX/EE			EE-8A	77	1036	Al-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-8	14	A	AUX/EE		125VDC CIRCUIT BREAKER FOR PANEL AI-43B	EE-8A	77	1036	Al-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	A!-41B-9	14	A	AUX/EE			EE-8A	77	1036	AI-41B	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-MAIN	14	A	AUX/EE		The second secon	EE-8A	77	1036	Al-4iB	DC-BUS-AI-41	S	NA	NA	0
AI-41B	AI-41B-MTS	14	A	AUX/EE		MTS 125VDC BUS#1 TO BUS #2	EE-8A	77	1036	Al-41B	EE-8G-CB22	S	NA	NA	0
AI-41B	DC-BUS-AI-41B	14	A	AUX/EE		125VDC PANEL BUS	EE-8A	77	1036	Al-41B	EE-8G-CB22	S	NA	NA	0
Al-42A	AI-42A-1	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AJ-42A	AI-42A-10	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-I	S	NA	NA	0
AJ-42A	AI-42A-11	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AI-42A	AI-42A-12	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AI-42A	AI-42A-2	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AI-42A	AI-42A-3	14	A	AUXÆE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AI-42A	AI-42A-4	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-I	S	NA	NA	0
AI-42A	AI-42A-5	14	A	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AI-42A	AJ-42A-7	14	Α	AUX/EE			EE-8B	77	1036	AI-42A	I-BUS-1	S	NA	NA	0
AI-42A	AI-42A-8	14	Α.	AUX/EE			EE-8B	77	1036	A1-42A	I-BUS-1	S	NA	NA	0
AI-42A	I-BUS-1	14	A	AUX/EE			EE-8B	77	1036	AI-42A	EE-8P	S	NA	NA	0
AI-42A	I-BUS-11-1	14	A	AUX/EE	48120	120VAC FEEDER BREAKER TO DIST BUS I-BUS-1	EE-8B	77	1036	AI-42A	EE-8P	S	NA	NA	0

BOX	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVA	L NORMA	L REQD	NOTES
AI-42B	AI-42B-1	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL AI-53	EE-8B	77	1036	AI-42B	I-BUS-2	s	NA	NA	0
AJ-42B	Al-42B-10	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL AI-195	EE-8B	77	1036	AI-42B	I-BUS-2	5	NA	NA	0
AI-428	AI-42B-12	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANELS AI-187 & AI	EE-8B	77	1036	AI-42B	I-BUS-2	5	NA	NA	0
AI-42B	AI-42B-2	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANEL AI-50	EE-8B	77	1036	AI-42B	1-BUS-2	5	NA	NA	0
AI-42B	AJ-42B-3	14	A	AUX/EE		120VAC CIRCUIT BREAKER FOR PANELS AI-107, 105.	EE-88	77	1036	AI-42B	I-BUS-2	S	NA	NA	6
AI-42B	AI-42B-4	14	Α .	AUXÆE	48120	120VAC CIRCUIT BREAKER FOR PANEL AI-55	EE-8B	77	1036	AI-42B	I-BUS-2	S	NA.	NA NA	0
AI-42B	Al-42B-5	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL AI-101B	EE-8B	77	1036	AI-42B	I-BUS-2	5	NA	NA.	0
AI-42B	AI-42B-6	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL IB-2A	EE-8B	77	1936	Al-42B	I-BUS-2	S	NA	NA	0
Al-42B	AI-42B-7	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL CB-10,11	FE-8B	77	1036	AI-42B	I-BUS-2	5	NA	NA	0
AI-42B	AI-42B-8	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL AI-43B	EE-8B	77	1036	AI-42B	I-BUS-2	5	NA.	NA	0
AI-42B	AJ-42B-9	14	A	AUX/EE	48120	120VAC CIRCUIT BREAKER FOR PANEL CB-1,2,3 & C	EE-8B	77	1036	AI-42B	I-BUS-2	S	NA	NA	0
AI-42B	I-BUS-2	14	A	AUX/EE	48120	120VAC PANEL DISTRIBUTION BUS	EE-8B	77	1036	AI-42B	EE-80	5	NA	NA.	0
AI-42B	1-BUS-12-1	14	A	AUX/EE	48120	120VAC FEEDER BREAKER TO DIST BUS I-BUS-2	EE-8B	72	1036	AI-42B	EE-80	S	NA	NA	0
AI-45	HIC-497	20	A	AUX/EE	15418	HCV-497 INDICATING HAND CONTROLLER	AC-CC	77	1036	AI-45	AI-40C-21	S	NA NA	NA	0
AI-4A	LA-101X	20	A	INV	10227	LEVEL SWITCH FOR PRESSURIZER LEVEL	RC	77	1036	Al-4A	AI-40A-20	5	NA	NA	0
AI-4A	LC-101X	20	A	INV	10227	LEVEL CONTROLLER FOR PRESSURIZER LEVEL	RC	77	1036	AI-4A	AI-40A-20	S	NA	NA	0
AJ-4A	LCA-101X	20	A	INV	10227	LEVEL CONTROLLER FOR PRESSURIZER LEVEL	RC	77	1036	AI-4A	AI-40A-20	5	NA	NA	0
AI-4A	LIC-101X	20	A	INV	10227	LEVEL INDICATOR FOR PRESSURIZER LEVEL	RC	77	1036	A3-4A	AI-40A-20	S	NA	NA	0
AI-4A	LM-101X-1	20	A	INV	10227	LEVEL SIGNAL MODIFIER FOR PRESSURIZER LEVEL	RC	77	1036	AI-4A	AI-40A-20	S	NA	NA	0
AI-4A	LM-101XX	20	A	INV	10227	LEVEL SIGNAL MODIFIFR FOR PRESSURIZER LEVEL	RC	77	1035	AI-4A	AI-40A-20	S	NA	NA	0
Al-4A	LQ-101X-1	20	A	INV	10227	LOOP POWER SUPPLY FOR PRESSURIZER LEVEL	RC	77	1032	AI-4A	AJ-40A-20	S	NA	NA	0
AI-4B	LA-101Y	20	A	INV	16956	LEVEL SWITCH FOR PRESSURIZER LEVEL.	RC	77	1036	AI-4B	AI-40B-21	S	NA .	NA	0
AI-48	LC-101-1	20	A	INV	10227	LEVEL CONTROLLER FOR PRESSURIZER LEVEL	RC	77	1036	AI-4B	AI-40A-20	5	NA	NA	0
AI-4B	LC-101-2	20	A	INV	10227	LEVEL CONTROLLER FOR PRESSURIZER LEVEL	RC	77	1036	Al-4B	AI-40A-20	S	NA	NA	0
AI-4B	LC-101Y	20	A	INV	16956	LEVEL CONTROLLER FOR PRESSURIZER LEVEL.	RC	77	1036	AI-4B	AI-40B-21	S	NA	NA	0
AI-4B	LCA-101Y	20	Α	INV	16956	LEVEL CONTROLLER FOR PRESSURIZER LEVEL	RC	77	1036	AI-4B	AI-40B-21	S	NA	NA	0
AI-4B	LCM-101Y	20	A	INV	16956	LEVEL SIGNAL MODIFIER FOR PRESSURIZER LEVEL.	RC	77	1036	AI-4B	A1-42B-09	S	NA	NA	0
AI-4B	LIC-101Y	20	A	INV	16956	LEVEL INDICATOR FOR PRESSURIZER LEVEL	RC	77	1036	AI-4B	AI-40B-21	8	NA	NA	0
AI-4B	LM-101Y-1	20	A	INV	16956	LEVEL SIGNAL MODIFIER FOR PRESSURIZER LEVEL	RC	77	1036	AI-4B	NA	8	NA	NA	0
AI-4B	LQ-101Y-1	20	A	INV	16956	LOOP POWER SUPPLY FOR PRESSURIZER LEVEL	RC	77	1632	AI-48	AI-40B-21	5	NA	NA	0
AI-66A	A/LI-911/912	20	A	DHR	21360	LEVEL INDICATOR FOR RC-2A	MS	77	1036	A1-66A	NA	S	NA	NA	0
AI-66A	A/PI-120	20	A	PC	40239	PRESSURE INDICATOR FOR PRESSURIZER PRESSURE	RC	77	1036	AI-66A	NA	S	NA	NA	6
AI-66A	A/PI-913/914	20	A	DHR	21360	RC-2A PRESSURE INDICATOR	MS	77	1036	Al-66A	NA	S	NA	NA	0
AI-66A	1.1-1183-1	20	A	DHR	21348	LEVEL INDICATOR FOR EFWST	FW-AF	77	1036	AI-66A	NA	S	NA	NA	0
AI-66B	B/Li-911/912	20	A	DHR	21360	LEVEL INDICATOR FOR RC-2A	MS	77	1036	AI-66B	NA	S	NA	NA	0
AI-66P	B/PI-120	20	A	PC	40239	PRESSURE INDICATOR FOR PRESSURIZER PRESSURE	RC	77	1036	AI-66B	NA	S	NA	NA	0
AI-66B	B/PI-913/914	20	Α.	DHR	21360	RC-2A PRESSURE INDICATOR	MS	77	1036	AI-66B	NA	S	NA	NA	0
AI-66B	FIC-1369	20	A	DHR	15861	FLOW/INDICATING CONTROLLER FOR FCV-1369	FW-AF	77	1036	AI-66B	AI-42B-08	5	NA	NA	0
AI-66B	LI-1188-1	20	A	DHR	21349	LEVEL INDICATOR FOR EFWST	FW-AF	77	1036	AI-66B	NA	5	NA	NA	0
ATA-DI	ATA-DI	20	A	AUX/EE	12243	DG1 480V AUTO XFER SWITCH (EMER FEEDER)	DG	63	1013	2WD0N1A	MCC-4A1-A03	SR	*OFF*	*OFF*	0
ATA-D2	ATA-D2	20	A	AUX/EE	12243	DG2 480V AUTO XFER SWITCH (EMER FEEDER)	DG	64	1013	3WD0N2A	MCC-3B1-G2R	SR	*OFF*	*OFF*	0
ATD-D1	ATD-D1	20	A	AUX/EE	12244	DG1 125VDC AUTO XFER SW:TCH (NORM FEEDER)	DG	63	1013	7WD12N1A	I-BUS-1	SR	*ON*	*ON*	0
ATD-D2	ATD-D2	20	A	AUX/EE	12244	DG2 125VDC AUTO XFER SWITCH (NORM FEEDER)	DG	64	1013	8WD0N2A	I-BUS-2	SR	*ON*	*ON*	0
B/LT-911	B/LT-911	18	A	DHR	21360	RC-2A LEVEL INDICATION	MS	CONT	1011	15WCC3NI	NA	S	NA	NA	0
B/LT-912	B/LT-912	18	A	DHR	21361	RC-2B LEVEL INDICATION	MS	CONT	1002	14WCC8NIV	NA	S	NA	NA	0
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BOX	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES	
B/PT-120	B/PT-120	18	A	PC	40239	PZR PRESSURE TRANSMITTER	RC	CONT	1019	15WCC4NI	NA	S	NA	NA	9	
B/PT-913	B/PT-913	18	A	DHR	21360	RC-2A PRESSURE INDICATION	MS	CONT	1011	15WCC3NI	NA	S	NA	NA	0	
B/PT-914	B/PT-914	18	A	DHR	21361	RC-2B PRESSURE INDICATION	MS	CONT	1002	14W CC8NIV	NA	S	NA	NA	0	
B/TE-112C	B/TE-112C	19	A	DHR	16294	RCS TEMPERATURE ELEMENT	RC	CONT	1008	20WCC26NII	NA	S	NA	NA	0	
B/TE-112H	B/TE-112H	19	A	DHR	16294	RCS TEMPERATURE ELEMENT	RC	CONT	1008	24WBB24NII	NA	S	NA	NA	0	
B/TE-122C	B/TE-122C	19	A	DHR	16082	RCS TEMPERATURE ELEMENT	RC	CONT	1008	03WBB21NIII	NA	S	NA	NA	0	
B/TE-122H	B/TE-122H	19	A	DHR	16082	RCS TEMPERATURE ELEMENT	RC	CONT	1008	2WCC18NIII	NA	S	NA	NA	0	
CB-1,2,3	43B/AI-185	20	A	ENV	16956	SELECTOR SWITCH FOR PRESSURIZER LEVEL	UNK	77	1036	CB-1,2,3	NA	S	NA	NA	0	
CB-1,2,3	A/TI-112C	20	A	DHR	16294	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1,2,3	AI-40A-01	S	NA	NA	0	
CB-1.2.3	A/TI-112H	20	A	DHR	16294	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1,2,3	AI-40A-01	S	NA	NA	0	
CB-1.2.3	A/TI-122C	20	A	DHR	16082	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1.2,3	AI-40A-01	S	NA	NA	0	
CB-1,2,3	A/TI-122H	20	Α	DHR	16082	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1.2.3	AI-40A-01	S	NA	NA	0	
CB-1.2.3	B/TI-112C	26	A	DHR	16294	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1,2,3	AI-40B-01	S	NA	NA	0	
CB-1.2.3	B/TI-112H	20	Α	DHR	16294	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1.2.3	AI-40B-01	S	NA	NA	0	
CB-1.2.3	B/TI-122C	20	A	DHR	16082	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1.2.3	AI-40B-01	S	NA	NA	0	
CB-1,2,3	B/TI-122H	20	A	DHR	16082	RCS TEMPERATURE INDICATOR	RC	77	1036	CB-1,2,3	Al-40B-01	S	NA	NA	0	
CB-1,2,3	HIC-101	20	A	AUX/EE	1267	LCV-101-1 & LCV-101-2 INDICATING CONTROLLER	CH	77	1036	CB-1,2,3	AI-40A-20	S	NA	NA	0	
CB-1,2,3	HiC-400	0	A	AUX/CCW	15339	MANUAL LOADER FOR HCV-400C	AC-CC	77	1036	CB-1,2,3	AI-40A-1	S	NA	NA	0	
CB-1,2,3	HIC-401	0	A			MANUAL LOADER FOR HCV-401C		77	1036	CB-1.2.3	AI-40A-1	S	NA	NA	0	
CB-1,2,3	HIC-402	0	A			MANUAL LOADER FOR HCV-402C	AC-CC		1036	CB-1.2.3	AI-40A-1	\$	NA	NA	0	
CB-1,2,3	HIC-403	0	A	AUX/CCW		MANUAL LOADER FOR HCV-403C	AC-CC	77	1036	CB-1,2,3	AI-40A-1	S	NA	NA	0	
CB-1,2,3	LC-101X-1	20	A	AUX/EE		LEVEL CONTROLLER FOR RC-4 PRESSURIZER	RC	77	1036	CB-1.2.3	AI-40A-20	S	NA	NA	0	
CB-1.2.3	LC-101Y-1	20	A	AUX/EE	1267	LEVEL CONTROLLER FOR RC-4 PRESSURIZER	RC	77	1036	CB-1.2.3	Al-40B-21	5	NA	NA	0	
CB-1,2,3	LR-101X	20	A	INV	10227	LEVEL RECORDER FOR PRESSURIZER LEVEL	RC	77	1036	CB-1.2.3	AI-40A-01	S	NA	NA	0	
CB-1,2,3	LR-101Y	20	A	INV	16956	LEVEL RECORDER FOR PRESSURIZER LEVEL	RC	77	1036	CB-1,2,3	AI-40D-01	8	NA	NA	0	
CB-1,2,3	P1-499	20	A	DHR	15420	CCW PUMP DISCHARGE PRESSURE INDICATOR	AC-CC	77	1036	CB-1,2,3	NA	5	NA	NA	0	
CB-1,2,3	O-1109/1183	20	A	DHR	21348		FW	77	1036	CB-1,2,3	NA	8	NA	NA	0	
CB-10.13	FIC-1368	20	A	DHR	15861		FW-AF	77	1036	CB-10.11	AI-42A-05	S	NA	NA	0	
CB-10,11	HIC-1107B	20	A	DHR	15793	HAND/INDICATING CONTROL SWITCH FOR HCV-1107B		77	1036	CB-10,11	AI-40B-21	S	NA	NA .	0	
CB-10,11	HIC-1108B	20	A	DHR	15794	HAND/INDICATING CONTROL SWITCH FOR HCV-1108B		77	1036	CB-10.11	Al-40B-21	S	NA	NA	0	
CB-10,11	LJ-1188	20	A	DHR	21349	LEVEL INDICATOR FOR EPWST		77	1036	CB-10,11	NA	S	NA	NA	0	
CB-10.11	LJA-1183	20	A	DHR		LEVEL INDICATOR ALARM FOR EFWST	FW-AF	77	1036	CB-10.11	AI-40A-20	S	NA	NA	0	
CB-10,11	LM-1,83	20	A	DHR	21348		FW-AF	77	1036	CB-10.11	NA	5	NA	NA	0	
CB-10,11	LM-1188	20	A	DHR	21349	LEVELSIGNAL MODIFIER FOR LT-1188	FW-AF	77	1036	CB-10.11	NA	S	NA	NA	0	
CB-4	A/RI-001X	20	A	RC	24276	INDICATOR FOR NUETRON FLUX MONITORING	AI-NI	77	1036	CB-4	AI-40A-05	S	NA	NA	0	
CB-4	A/RI-001Y	20	A	RC	24275	INDICATOR FOR NUETRON FLUX MONITORING	Al-NI	77	1036	CB-4	AI-40A-05	S	NA	NA	0	
CB-4	D/RI-001X	20	p	RC	24276	INDICATOR FOR NUETRON FLUX MONITORING	AI-NI	77	1036	CB-4	AI-40A-05	S	NA	NA	0	
CB-4	D/RI-001Y	20	p	RC	24276	INDICATOR FOR NUETRON FLUX MONITORING	AI-NI	77	1036	CB-4	AI-40A-05	8	NA	NA	0	
CB-4 AUX		20	A	DHR	9490	SUBCOOLED MARGIN MONITOR CALC MODULE A	СВ	77	1036	CB-4 AUX	AI-40A-12	S	NA	NA	6	
CB-4 AUX		20	A	DHR	9492	SUBCOOLED MARGIN MONITOR CALC MODULE B	СВ	77	1036	CB-4 AUX	Ai-40B-06	5	NA	NA	0	
CH-11A	CH-11A	21	P	INV.R.P	10478	BAST	CH	26	1013	28EU9S7A	NA	S	NA	NA	0	
CH-11B	CH-11B	21	p	INV.R.P	10478		CH	26	1013	42EU9S7A	NA	S	NA	NA	6	
CH-IA	CH-11B	5	A	INV.R.P		CHARGING PUMP	CH	6	0991	05EU04N6E	NA	5	OFF	ON	0	
CH-IA	CH-IA LO COOLER	21	p	AUX/CCW		CHARGING PUMP LUBE OIL COOLER	LO	6	991	45WT06N6E	NA	S	NA	NA	0	
CH-1A	CH-IA-M	5	A	INV		CHARGING PUMP MOTOR	CH	6	0991	45WT06N6E	1B3A-4	5	NA	NA	0	
CH-IA	CIFIAM	3		110.4	12240	STATES OF CHE MOTOR	CH		0331	45 W LOUINGE	103/1-4	3	1975	INA		

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
CH-1B	CH-1B	5	A	INV,R,P	10476	CHARGING PUMP	CH	6	0991	34WT6N6E	NA	S	OFF	ON	0
CH-1B	CH-1B LO COCLER	21	P	AUX/CCW	55196	CHARGING PUMP LUBE OIL COOLER	LO	6	991	31WT06N6E	NA	S	NA	NA	0
CH-1B	CH-IB-M	5	A	INV	12241	CHARGING PUMP MOTOR	CH	6	0993	31WT6N6E	1B4C-6	S	NA	NA	0
CH-IC	CH-IC	5	A	INV.R.P	10476	CHARGING PUMP	CH	6	0991	17WT7N6E	NA	S	OFF	ON	0
CH-IC	CH-IC LO COOLER	21	p	AUXCCW	55196	CHARGING PUMP LUBE OIL COOLER	LO	6	991	12WT06N6E	NA	S	NA	NA	0
CH-IC	CH-1C-M	5	A	INV		CHARGING PUMP MOTOR	CH	6	0993	12WT6NE	1B3B-4B-5	S	NA	NA	0
CH-22A	CH-22A	21	P	INVRP		CHARGING PUMP OUTLET ACCUMULATOR	CH	6	0993	51WT11N6E	NA	S	NA	NA	0
CH-22B	CH-22B	21	p	INV.R.P		CHARGING PUMP OUTLET ACCUMULATOR	CH	6	0993	36WT11N6E	NA	S	NA	NA	0
CH-22C	CH-22C	21	p	INV.R.P		CHARGING PUMP OUTLET ACCUMULATOR	CH	6	0993	18WT10N6E	NA	S	NA	NA	0
CH-26A	CH-26A	21	p	INV.R.P		CHARGING PUMP INLET ACCUMULATOR	CH	6	0993	48WTIIN6E	NA	S	NA	NA	0
CH-26B	CH-268	21	p	INV.R.P		CHARGING PUMP INLET ACCUMULATOR	CH	6	0993	33WTIIN6E	NA	8	NA	NA	0
CH-26C	CH-26C	21	P	INVRP		CHARGING PUMP INLET ACCUMULATOR	CH	6	0993	16WT10N6E	NA	S	NA	NA	0
CH-6	CH-6	21	P			REGENERATIVE HEAT EXCHANGER	CH	CONT	0994	13WEE-16NIII	NA	5	NA	NA	0
CH-7	CH-7	21	P	The state of the s		LET DOWN HEAT EXCHANGER	CH	12	0992	6E'0-05'6E	NA	S	NA	NA	0
DI	D1-69-8FT1	3	A	AUX/EE		FEEDER BREAKER TO FO-4A-1-M	DG	63	1007	DI DI	DP1-5	6	NA	NA	0
DI	D1-70-8FT2	3	A	AUX/EE		FEEDER BREAKER TO FO-48-1-M	DG	63	1007	DI	DP1-5	5	NA		0
		3		AUX/EE		FEEDER BREAKER TO FO-4A-2-M	DG	64	1007	D2		5		NA	
D2	D2-69-8FT1	3	A			FEEDER BREAKER TO FO-48-2-M	DG	64	1007	D2 D2	DP2-5		NA	NA	0
D2	D2-70-8FT2		Α .					63			DP2-5	S	NA	NA	0
DG-1	DG-1	17	A			EDG # 1 ENGINE (EE-1F)	DG FO PC		1010	03EF-08NIA	NA	SR	*Obb*	*ON*	0
DG-1	FO-17-1	5	A			DG-1 FUEL PUMP	FO-DG	63	1010	0WK6N1A	NA	S	OFF	ON	0
DG-1	FO-17-1-M	5	A		A	DG-1 FUEL PUMP MOTOR	FO-DG		1010	GWK6N1A	DP1	S	NA	NA	0
DG-1	FO-18-1	5	A			DG-1 FUEL PUMP	FO-DG		1010	19WF8N1A	NA	S	OFF	ON	0
DG-1	FO-2C	21	P			DG-1 ENGINE MOUNTED FUEL TANK	FO-DG		1007	OWKSNF	NA	S	NA	NA	0
DG-1	FO-4A-1	5	A			DG-1 FUEL OIL TRANSFER PUMP	FO-DG		1012	03WK-09N1A		S	OFF	ON	0
DG-1	FO-4A-1-M	5	A			DG-1 FUEL OIL TRANSFER PUMP MOTOR	FO-DG		1012	03WK-09N1A	D1-69-8FT1	SR	.OEE.	*ON*	0
DG-1	FO-4B-1	. 5	A			DG-1 FUEL OIL TRANSFER PUMP	FO-DG	63	1012	03WK-07N1A		S	OFF	ON	6
DG-1	FO-4B-1-M	5	A			DG-1 FUEL OIL TRANSFER PUMP MOTOR	FO-DG	63	1012	03WK-07N1A		SR	*OFF*	*ON*	0
DG-1	3W-1-1	21	P			DG-1 JACKET WATER EXPANSION TANK	JW	63	1019	01WK-09N1A	NA	S	NA	NA	0
DG-1	JW-106	0	A			DG-1 JACKET WATER TEMPERATURE REGULATING VALV	JW	63	1615		NA	S	NA	NA	0
DG-1	JW-2-1	21	P			DG-1 IMMERSION HEATER	3W	63	1009	00WK-07N1A	DP1-3	SR	*ON*	*OFF*	0
DG-1	JW-3-1	21	P			DG-I RADIATOR	JW	63	1016	07WK-08N1A	NA	S	NA	NA	0
DG-1	JW-4-1	0	A	The state of the s		JW-1-1 FILLER CAP/PRESSURE RELIEF	JW	63	1020	45WD9/\$1A	NA	S	C	0	0
DG-1	LO-162	7	A	- SANCE AND ADDRESS OF		DG-1 OIL CIRC PUMP RELIEF	LO	63	1011	17WF12N1A	NA	S	C	0	0
DG-1	LO-173	7	A	AUX/EDG	48725	DG-1 TURBO OIL CIRC PUMP RELIEF	LO	63	1009	17WF12N1A	NA	S	C	0	0
DG-1	LO-32-1	21	P	AUXÆDG	17388	DG-1 LUBE OIL COOLER	LO	63	1013	01EK-08N1A	NA	S	NA	NA	0
DG-1	LO-33-1	5	A	AUX/EDG	48725	DG-1 OIL CIRC PUMP	LO	63	1009	01EK-11NIA	NA	S	OFF	ON	0
DG-1	LO-33-1-M	5	A	AUX/EDG	48725	DG-1 OIL CIRC PUMP MOTOR	LO	63	1009	01EK-J1NIA	DP1-3	S	NA	NA	0
DG-!	LO-36-1	5	A	AUX/EDG	48725	DG-1 SCAVENGING PUMP	LO	63	1011	21WF14N1A	NA	S	OFF	ON	0
DG-1	LO-37-1	5	A	AUX/EDG	48725	DG-1 PISTON COOLING PUMP	LO	63	1013	15WF9N1A	NA	S	OFF	ON	0
DG-1	LO-38-i	5	Α	AUX/EDG	48725	DG-1 PRESSURE PUMP	LO	63	1013	15WF6NIA	NA	S	OFF	ON	0
DG-1	LO-40-1	5	A	AUX/EDG	48725	DG-1 TURBO OIL CIRC PUMP	LO	63	1008	20WF10N1A	NA	S	OFF	ON	0
DG-1	LO-40-1-M	5	A	AUX/EDG	48725	DG-1 TURBO OIL CIRC PUMP MOTOR	LO	63	1008	20WFI0N1A	LO-40-1-MS	S	NA	NA	0
DG-1	LO-40-1-MS	3	A	AUX/EE	17408	FEEDER BREAKER TO LO-40-1-M	LO	63	1008	OWK10N1A	DP1-4	S	NA	NA	0
DG-1	SA-141	0	A	AUX/EDG	17390	DG-1 STARTING AIR SOLENOID VALVE	SA	63	1007	3WF11NIA	NA	S	C	0	0
DG-1	SA-142	0	A			DG-1 STARTING AIR SOLENOID VALVE	SA	63	1008	3WF4N1A	NA	S	c	0	0

BOX	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMA	L REQU	NOTES	
DG-1	SA-143	7	A	AUX/EDG	17396	DG-1 STARTING AIR PRESSURE REGULATING VALVE	SA	63	1007	4WFIINIA	NA	S	С	0	0	
DG-1	SA-144	7	A	AUX/EDG	17390	DG-1 STARTING AIR PRESSURE REGULATING VALVE	SA	63	1008	4WF4NIA	NA	5	C	0	0	
DG-1	SA-145	7	A	AUX/EDG	17390	DG-1 AIR RELAY VALVE	SA	63	1007	4WFIINIA	NA	5	C	0	0	
DG-1	SA-146	7	A	AUX/EDG	17390	DG-1 AIR RELAY VALVE	SA	63	1008	4WF4NIA	NA	S	c	0	0	
DG-1	SA-147	7	A	AUXÆDG	17390	DG-1 AIR STARTING VALVE	SA	63	1007	3WFIINIA	NA	\$	c	0	0	
DG-1	SA-148	7	A	AUX/EDG	17390	DG-1 AIR STARTING VALVE	SA	63	1008	03WF04NIA	NA	S	c	0	0	
DG-1	SA-8-1A-1	0	A	AUX/EDG	17390	DG-1 UPPER STARTING AIR STARTER MOTOR	SA	63	1011	21WD12N1A	NA	S	NA	NA	0	
DG-1	SA-8-1A-2	0	A	AUX/EDG	17390	DG-1 UPPER STARTING AIR STARTER MOTOR	SA	63	1010	21WD12N1A	NA	\$	NA	NA	0	
DG-1	5A-8-1B-1	6	A	AUX/EDG	17390	DG-1 UPPER STARTING AIR STARTER MOTOR	SA	63	1011	21WD6N1A	NA	\$	NA	NA	0	
DG-1	SA-8-1B-2	0	A	AUX/EDG	17390	DG-1 UPPER STARTING AIR STARTER MOTOR	SA	63	1010	21WD6NIA	NA	S	NA	NA	0	
DG-2	DG-2	17	A	AUXÆDG	16303	EDG #2 ENGINE (EE-1G)	DG	64	1010	03EF-07S2B	NA	SR	*OFF*	*ON*	0	
DG-2	FO-17-2	5	A	AUX/EDG	16303	DG-2 FUEL PUMP	FO-DG	64	1010	20WF-22NIA	NA	S	OFF	ON	0	
DG-2	FO-17-2-M	5	A	AUX/EDG	17413	DG-2 FUEL PUMP MOTOR	FO-DG	64	1010	20WF-22N1A	DP2	S	NA	NA	0	
DG-2	FO-18-2	5	A			DG-2 FUEL PUMP	FO-DG	64	1010	20WF25N1A	NA	S	OFF	ON	0	
DG-2	FO-2D	21	P			DG-2 ENGINE MOUNTED FUEL TANK	FO-DG	64	1007	OWK22N1A	NA	S	NA	NA	0	
DG-2	FO-4A-2	5	A			DG-2 FUEL OIL TRANSFER PUMP	FO-DG	64	1012	03WK-06S2B	NA	S	OFF	ON	0	
DG-2	FO-4A-2-M	5	A			DG-2 FUEL OIL TRANSFER PUMP MOTOR	FO-DG	64	1012	03WK-06S2B	D2-69-8FT2	SR	*OFF*	*ON*	0	
DG-2	FO-4B-2	5	A			DG-2 FUEL OIL TRANSFER PUMP	FO-DG	64	1012	03WK-08S2B	NA	S	OFF	ON	0	
DG-2	FO-4B-2-M	5	A			DG-2 FUEL OIL TRASNFER PUMP MOTOR	FO-DG	64	1012	03WK-08S2B	D2-79-8FT2	SR	*OFF*	*ON*	0	
DG-2	JW-1-2	21	P			DG-2 JACKET WATER EXPANSION TANK	JW	64	1019	01WK-07S2B	NA	S	NA	NA	0	
DG-2	JW-116	0	A			DG-2 JACKET WATER TEMPERATURE REGULATING VALV	JW	64	1015	03EK-07S2B	NA	S	NA	NA	0	
DG-2	JW-2-2	21	P			DG-2 IMMERSION HEATER	JW	64	1009	00WK-08S2B	DP1-3	SR	*ON*	*OFF*	0	
DG-2	JW-3-2	21	P			DG-2 RADIATOR (TAGGED AS JW-3-1 ON DWG R/10)	J.W.	64	1016	07WK-08S2B	NA	S	NA	NA	0	
DG-2 DG-2	JW-4-2 LO-163	0 7	A			JW-1-2 FILLER CAP/PRESSURE RELIEF	1W	64	1020	45WD20N1A	NA	S	C	0	0	
DG-2	LO-174	7	A			DG-2 OIL CIRC PUMP RELIEF	LO	64	1011	18WF27N1A	NA	S	C	0	0	
DG-2	LO-32-2	21	A P			DG-2 TURBO OIL CIRC PUMP RELIEF	LO	64	1009	18WF27N1A	NA	S	C	0	0	
DG-2	LO-33-2	5	A			DG-2 LUPE OIL COOLER	LO	64	1013	01EK-07S2B	NA	S	NA	NA	0	
DG-2	LO-33-2-M		A			DG-2 OIL CIRC PUMP	LO	64	1009	01EK-04S2B	NA	S	OFF	ON	0	
DG-2	LO-36-2	5	A			DG-2 OIL CIRC PUMP MOTOR DG-2 SCAVENGING PUMP	LO	64	1009	01EK-04S2B	DP1-3	S	NA	NA	0	
DG-2	LO-37-2		A			DG-2 PISTON COOLING PUMP	LO	64	1010	18WF28N1A	NA	S	OFF	ON	0	
DG-2	LO-38-2	5	A			DG-2 PRESSURE PUMP	LO	64	1013	15WF22N1A	NA	S	OFF	ON	0	
DG-2	LO-40-2	5	A			DG-2 TURBO OIL CIRC PUMP	LO	64	1013	15WF24N1A	NA	S	OFF	ON	0	
DG-2	LO-40-2-M	5	A			DG-2 TURBO OIL CIRC PUMP MOTOR	LO	64	1008	21WF28NIA	NA	S	OFF	ON	0	
DG-2	LO-40-2-MS	1	A			FEEDER BREAKER TO LO-40-2-M	LO	64	1008	21WF28N1A	LO-40-2-MS	S	NA	NA	0	
DG-2	SA-191	0	A			DG-2 STARTING AIR SOLENOID VALVE	LO	64	1008	OWK28N1A	DP2-4	S	NA	NA	0	
DG-2	SA-192	0	A			DG-2 STARTING AIR SOLENOID VALVE	SA	64	1008	3WF28N1A	NA	S	C	0	0	
DG-2	SA-193	7	A			DG-2 STARTING AIR PRESSURE REGULATING VALVE	SA	64	1008	3WF22N1A	NA	S	C	0	0	
DG-2	SA-194	7	A			DG-2 STARTING AIR PRESSURE REGULATING VALVE	SA	64	1008	3WF28N1A	NA	S	0	0	0	
DG-2	SA-195	7	A			DG-2 AIR RELAY VALVE	SA	64	1008	4WF22N1A	NA	S	0	0	0	
DG-2	SA-196	7	A			DG-2 AIR RELAY VALVE	SA	64	1008	3WF28N1A	NA	S	C	0	0	
DG-2	SA-197	7	A			DG-2 AIR STARTING VALVE	SA	64	1008	4WF22N1A	NA	S	C	0	0	
DG-2	SA-198	7	A			DG-2 AIR STARTING VALVE	SA	64	1008	3WF28N1A	NA	S	C	0	G	
DG-2	SA-8-2A-1	0	A			DG-2 UPPER STARTING AIR STARTER MOTOR	SA	64	1008	4WF22N1A	NA	S	C	0	0	
DG-2	SA-8-2A-2	0	A			DG-2 UPPER STARTING AIR STARTER MOTOR	SA	64	1011		NA	S	NA	NA	0	
						TO SECURITION OF STARTES MOTOR	SA	64	1010	18WD27NIA	NA	S	NA.	NA	0	

BO	X	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
DO	3-2	SA-8-2B-1	0	A	AUX/EDG	38753	DG-2 UPPER STARTING AIR STARTER MOTOR	SA	64	1011	18WD21N1A	NA	S	NA	NA	0
DO	3-2	SA-8-2B-2	0	A	AUX/EDG	38753	DG-2 UPPER STARTING AIR STARTER MOTOR	SA	64	1010	18WD2INIA	NA	S	NA	NA	0
DV	V-46A-2	DW-46A-2	10	P	AUXVCCW	41741	VACUUM DEAERATOR	DW	69	1025	39WT-6N'6A	NA	S	NA	NA	0
DV	V-46B-2	DW-46B-2	10	P	AUX/CCW	41741	VACUUM DEAERATOR	DW	69	1025	39WT-6N6C	NA	S	NA	NA	0
EE	-4N	EE-4%	4	A	AUX/EE	12234	INVERTER "A" BYPASS TRANSFORMER	EE-8B	56	1011	6WC8N6D	MCC-3B1-E3R	S	NA	NA	0
EE	-4P	Et 4P	4	A	AUX/EE	12234	INVERTER "B" BYPASS TRANSFORMER	EE-8B	56	1011	20WC5N6D	MCC-4B1-A4R	S	NA	NA	0
EE	-40	E£-40	4	A	AUX/EE	12234	INVERTER "C" BYPASS TRANSFORMER	EE-8B	56	1011	6WC5N6D	MCC-3C1-A4R	S	NA	NA.	0
EE	-4R	EE-4R	4	A	AUX/EE	12234	INVERTER "D" BYPASS TRANSFORMER	EE-8B	56	1011	20WC3N6D	MCC-4C1-F05	S	NA	NA	0
EE	45	EE-4S	4	A	AUXÆE	12234	480VAC/120VAC TRANSFORMER	EE	56	1011	0WC11N6D	MCC-3A1-A2R	S	NA	NA	0
EE	-41	EE-4T	4	A	AUX/EE	12234	480VAC/120VAC TRANSFORMER	EE	56	1011	0WD3N6D	MCC-4A1-A05	S	NA	NA	0
EE	-8A	EE-8A	15	A	AUX/EE	12234	125VDC BATTERY #1	EE-8A	54	1012	9WC15N7B	EE-8C	S	NA	NA	0
EE	-8B	EE-8B	15	A	AUX/EE	12234	125VDC BATTERY #2	EE-8A	55	1012	0WD12N7B	EE-8D	S	NA	NA	0
	-8C	EE-8C	16	A	AUX/EE	12234	BATTERY CHARGER #1	EE-8A	56	1011	9WC13N6D	MCC-3B1-C2L	S	NA	NA	0
	-8D	EE-8D	16	A	AUX/EE	12234	BATTERY CHARGER #2	EE-8A	56	1011	16WC14N6D	MCC-4A1-C02	S	NA	NA	0
EE	-8E	EE-8E	16	A	AUX/EE	12234	BATTERY CHARGER #3	EE-8A	56	1011	0WD0N7A	MCC-3C1-A2L	S	NA	NA	0
EE		EE-8F	14	A	AUX/EE	12234	125VDC DIST BUS IN PANEL EE-8F	EE-8A	56	1011	EE-8F	DC1-1	S	NA	NA	0
EE		EE-8F-CB1	14	A	AUX/EE	12244	125VDC FEEDER BREAKER TO BUS EE-8F	EE-8A	56	1011	EE-8F	EE-8A	S	NA	NA	0
EE		EE-8F-CB10	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR AI-41B-MTS	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
	-8F	EE-8F-CB11	14	Α	AUX/EE		125VDC FEEDER BREAKER FOR EMER LTG PNL ELP1	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB12	14	A	AUX/EE	12244	125VDC NORM POWER TO BUSES 1B3C & 1B3C-4C VIA	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE	-8F	EE-8F-CB13	14	A	AUX/EE	12244		EE-8A	56	1011	EE-8F	DC-BUS-I	S	NA	NA	0
EE		EE-8F-CB14	14	A	AUX/EE	12244	125VDC NORM POWER TO BUSES 1B3A, 1B3B, 1B3A-4	FE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB15	14	A	AUX/EE	12244	125VDC EMER POWER TO 1A2-1A4-MTS	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE	-8F	EE-8F-CB16	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR PNL-1A	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB18	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR PANEL AI-179	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB19	14	A	AUX/EE	12244	125VDC NORM POWER VIA 1A1-1A3-MTS	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE	-8F	EE-8F-CB2	14	A	AUX/EE	12244	125VDC FEEDER BREAKER TO EE-8F	EE-8A	56	1011	EE-8F	EE-8E	S	NA	NA	0
EE	-8F	EE-8F-CB20	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR PANEL AI-41A	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB22	14	Α	AUX/EE	12244	125VDC FEEDER BREAKER FOR EE-8K INVERTER	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	e
EE		EE-8F-CB23	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR 125VDC PNL-1	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB24	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR EE-8H INVERTER	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB3	14	A	AUX/EE	12244	125VDC FEEDER BREAKER TO EE-8F	EE-8A	56	1011	EE-8F	EE-8C	5	NA	NA	0
EE		EE-8F-CB4	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR EMER BEARING OIL PM	LO	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB5	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR STAT INV "1"	EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB8	14	A	AUX/EE	12244		EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA	NA	0
EE		EE-8F-CB9	14	A	AUX/EE	12244		EE-8A	56	1011	EE-8F	DC-BUS-1	S	NA.	NA	0
	-8G	EE-8G	14	A	AUX/EE	12234	125VDC DIST BUS IN PANEL EE-8G	EE-8A	56	1011	EE-8G	DC2-I	5	NA	NA	0
	-8G	EE-8G-CB01	14	A	AUX/EE	12244		EE-8A	56	1101	EE-8G	EE-8B	S	NA	NA	0
	-8G	EE-8G-CB10	14	A	AUX/EE	12244		EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
	-9G	EE-8G-CB11	14	A	AUXIEE	12244		EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
-	-8G	EE-8G-CB12			AUX/EE	12244		EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA NA	NA	6
2000	-8G	EE-8G-CB12 EE-8G-CB14	14	A	AUX/EE	12244		EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA NA	NA	0
					AUX/EE	12244		EE-8A	56	1011	EE-8G	DC-BUS-2	5	NA NA		0
	-8G	EE-8G-CB15	14	A	AUX/EE	12244		EE-8A	56	1011	EE-8G	DC-BUS-2	5		NA NA	0
	-8G	EE-8G-CB16	14	A			125VDC FEEDER BREAKER FOR PANEL AI-183			1011			S	NA	NA.	0
EE	-8G	EE-8G-CB17	14	A	AUX/EE	12244	123 VIA. PEEDER BREAKER FUR PANEL AI-179	EE-8A	56	1011	EE-8G	DC-BUS-2	2	NA	NA	0

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
EE-8G	EE-8G-CB18	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR DC-PNL-2A	EE-8A	56	1011	EE-8G	DC-BUS-2	5	NA	NA	0
EE-8G	EE-8G-CB19	14	A	AUX/EE	12244	125VDC EMER POWER VIA SW 1B3A-4A-MTS	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB2	14	A	AUX/EE	12244	125VDC FEEDER BREAKER TO EE-8G	EE-8A	56	1011	EE-8G	EE-8E	S	NA	NA	0
EE-8G	EE-8G-CB20	14	A	AUX/EE	12244	125VDC NORM POWER VIA XFER SW 1B3B-4B-MTS	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB21	14	A	AUX/EE	12244	125VDC EMER POWER VIA XFER SW 1B3C-4C-MTS	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB22	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR PANEL AI-41B	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB23	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR DC-PNL-2	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB3	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR STAT INV "2"	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB5	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR EE-8J INVERTER	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB6	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR EE-8L INVERTER	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB7	14	A	AUX/EE	12244	125VDC EMER POWER VIA XFER SW AI-41A-MTS	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB8	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR ELP-2	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8G	EE-8G-CB9	14	A	AUX/EE	12244	125VDC FEEDER BREAKER FOR PCE	EE-8A	56	1011	EE-8G	DC-BUS-2	S	NA	NA	0
EE-8H	EE-8H	16	A	AUX/EE	12234	125VDC/120VAC INVERTER "A"	EE-8B	56	1011	7WC6N6D	EE-8F-CB24	S	NA	NA	0
EE-8J	EE-8J	16	A	AUX/EE	12234	125VDC/t20VAC INVERTER "B"	EE-8B	56	1011	18WC9N6D	EE-8G-CB5	S	NA	NA	0
EE-8K	EE-8K	16	A	AUX/EE	12234	125VDC/120VAC INVERTER "C"	EE-8B	56	1011	6WC5N6D	EE-8F-CB22	S	NA	NA	0
EE-8L	EE-8L	16	A	AUX/EE	12234	125VDC/126VAC INVERTER "D"	EE-8B	56	1011	18WC6N6D	EE-8G-CB6	S	NA	NA	0
EE-8P	EE-8P	16	A	AUX/EE	12234	125VDC/120VAC INVERTER	EE-8B	56	1011	1WC20N6D	EE-8F-CB5	S	NA	NA	0
EE-8Q	EE-8Q	16	A	AUX/EE	12234	125VDC/120VAC INVERTER	EE-8B	56	1011	18WC2N6D	EE-8G-CB3	S	NA	NA	0
FCV-1368	FCV-1368	7	A	DHR	56510	AFW PUMP FW-6 RECIRC TO EFWST	FW-AF	19	993	07WC18N3A	NA	SR	*0*	*0*	0
FCV-1368	FCV-1368-20	0	A	AUX/IA	15861	3 WAY SOLENOID VALVE FOR FCV-1368	FW-AF	19	0993	07WC18N3A	AI-41A-14	S	NA	- NA	0
FCV-1368	FCV-1368-O	7	A	AUX/IA	15861	CONTROL VALVE OPERATOR FOR FCV-1368	FW-AF	19	0993	07WC18N3A	NA	S	NA	NA	0
PCV-1369	FCV-1369	7	A	DHR	56510	AFW PUMP FW-10 RECIRC	FW-AF	19	991	03WC7N3AA	NA	SR	*0*	*0*	0
FCV-1369		0	A	AUX/IA		3 WAY SOLENOID VALVE FOR FCV-1369	FW-AF	19	0993	03WC7N3A	AI-41B-14	S	NA	NA	0
FCV-1369	FCV-1369-O	7	A	AUXÆA	15862		FW-AF	19	0991	03WC07N3A	NA	S	NA	NA	0
PCV-269	FCV-269	7	P	RC	55250	BLEEDING TEE CH-13; B.A.S.T. INLET VALVE	CH	26	1011	51WT-8N'6E	NA	SR	*C*	*C*	1
FCV-269Y	FCV-269Y	7	P	RC		BLENDING TEE; BORIC ACID INLET VALVE	CH	26	1010	42WT-10N'6E	NA.	N	NA	NA	1
FE-1368	FE-1368	18	A	DHR	15861	FLOW ELEMENT FOR FT-1368	FW-AF	19	0996	3WC0N4A	NA	S	NA	NA	0
FE-1369	FE-1369	18	A	DHR	15861	FLOW ELEMENT FOR FT-1369	FW-AF	19	0996	3WC14N3A	NA	2	NA	NA	0
FO-1	FO-1	21	P	AUX/EDG		EDG FUEL OIL STORAGE TANK	The second second	OTDR	0995	29EM-30S1A	NA	S	NA	NA	0
FO-2-1	FO-2-1	21	P	AUX/EDG		DG-1 WALL MOUNTED FUEL TANK		63	1617	07EK-14N1A	NA	9	NA	NA	0
FO-2-2	FO-2-2	21	P	AUX/EDG			FO-DG	64	1017	07EK-01S2B	NA	S	NA	NA	0
FT-1368	FT-1368	18	A	DHR	15861	FLOW TRANSMITTER FOR FCV-1368	FW-AF	19	0993	01WC04S4A	FQ-1368	S	NA	NA	0
FT-1369	FT-1369	18	A	DHR	15861	FLOW TRANSMITTER FOR FCV-1369		19	0993	01WC05S4A	FQ-1369	S	NA	NA	0
FW-10	FW-10	5	A	DHR	56510	TURBINE DRIVEN AFW PUMP	FW-AF	19	0991	03WC-1N3A	NA .	S	OFF	ON	0
FW-10	FW-10-M	5	A	DHR		AFW PUMP FW-10 TURBINE	FW-AF	19	0991	03WC-1N3A	NA	S	NA	NA	0
FW-19	FW-19	21	P	DHR		EFWST	FW-AF		1045	12WC3N3A	NA	S	NA	NA	0
FW-6	FW-6	5	A	DHR	56510			19	0992	04WC-5_4A	NA	S	OFF	ON	0
FW-6	FW-6-M	5	A	DHR	56510	FW-6 MOTOR		19	0992	04WC-15N3A	1A3-16	S	NA	NA	0
FW-654	FW-654	0	P	DHR	55540	DEMIN WATER MAKEUP BYPASS ISOLATION	FW-AF		1041	10ED5S4A	NA	S	C	С	0
GE/MAC	FQ-1368	20	A	DHR	15861	INSTRUMENT MODULE FOR FT-1368	FW-AF		1036	GE/MAC	NA	S	NA	NA	0
GE/MAC	FQ-1369	20	A	DHR	15861	INSTRUMENT MODULE FOR FT-1369	FW-AF		1036	GE/MAC	NA	S	NA	NA	0
GE/MAC	LQ-1188	20	A	DHR	21349	POWER SUPPLY MODULE FOR LT-1188		77	1036	GE/MAC	NA	S	NA	NA	0
GM-1	A/PMI-105	20	A	DHR	15820	VOLTAGE TO CURRENT CONVERTER	RC	77	1036	GM-1	NA	S	NA.	NA	0
GM-1	A/PMO-105	20	A	DHR	15820	VOLTAGE TO CURRENT CONVERTER	RC	77	1036	GM-1	NA	S	NA	NA	0

BOX	ASSEL	SQUG CLASS		SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
GM-I	LCM-101X	20	A	INV	10227	LEVEL SIGNAL MODIFIER FOR PRESSURIZER LEVEL	RC	77	1036	GM-1	AL-42A-07	s	NA	NA	
GM-1	LM-101	20	A	INV	10227	SIGNAL MODIFIER FOR PRESSURIZER LEVEL	RC	77	1036	GM-1	AI-40A-20	S	NA		0
GM-I	LM-101X	20	A	INV	10227		RC	77	1036	GM-1	AI-42A-07			NA	
GM-1	LM-101Y	20	A	INV	16956	LEVEL SIGNAL MODIFIER FOR PRESSURIZER LEVEL	RC	77	1036	GM-1	AI-42B-09	S	NA	NA	0
GM-1	LM-101YX	20	A	INV		LEVEL SIGNAL MODIFIER FOR PRESSURIZER LEVEL	RC	77	1036	GM-1			NA	NA	0
GM-I	LQ-101X	20	A	ENV	10227		RC	77	1036	GM-1	AI-40B-21	S	NA	NA	0
GM-1	LQ-1183	20	A	DHR	21348	POWER SUPPLY MODULE FOR LT-1183	FW-AF	77	1036	GM-1	AI-40A-01	S	NA	NA	0
GM-1	PQ-105	20	A	DHR	15820	PRESSURIZER PRESSURE LOOP POWER SUPPLY	RC	77			NA NIC 2	S	NA	NA	0
GM-2	A/PMI-115	20	A	DHR	2111	PRESSURIZER PRESSURE VOLTAGE TO CURRENT CONVE	RC	77	1036	GM-1	P/Q-2	2	NA	NA.	0
GM-2	A/PMO-115	20	A	DHR	2111	PRESSURIZER PRESSURE VOLTAGE TO CURRENT CONVE	RC	77	1036	GM-2	NA	S	NA	NA	0
GM-2	A/TMI-112C/122C	20	A	DHR	16294		RC	77	1036	GM-2	NA	S	NA	NA.	0
GM-2	A/TMI-112H/122H	20	A	DHR	16294		RC	77	1036	GM-2	NA	S	NA	NA.	0
GM-2	A/TMO-112C/122C	20	A	DHR	16294		RC		1036	GM-2	NA	S	NA	NA	0
GM-2	A/TMO-112H/122H	20	A	DHR	16294	The second secon	RC	77	1036	GM-2	NA	S	NA.	NA	0
GM-2	PO-499	20	A	DHR	15420	The state of the s		77	1036	GM-2	NA	S	NA	NA	0
HCV-1041A	HCV-1041A	7	A	DHR	10458		AC-CC	77	1036	GM-2	PS-3	S	NA	NA	0
	HCV-1041A-20A	0	Α	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-1041A	MS	81	1040	10WD-3N4A	NA	SR	*0*	*C*	0
	HCV-1041A-20B	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-1041A	MS	81	1046	7WD3N4A	AI-41B-12	S	NA	NA	0
	HCV-1041A-20C	0	A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-1041A	MS	81	1047	7WD3N4A	AI-41B-12	S	NA	NA	0
	HCV-1041A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-1041A	MS	81	1046	07EE02N4A	AI-41B-12	S	NA	NA	0
	HCV-1041B	2	A	DHR	10458		MS	81	1040	10WD-4N4A	NA	S	NA	NA	0
	HCV-1041C	. 7	P	DHR		RC-2A BYPASS ISOLATION VALVE	MS	81	1040	10WD7N4A	NA	S	NA	NA	0
	HCV-1042A	7	A	DHR		RC-28 ISOLATION VALVE	MS	81	1042	12WD06N4A	NA	SR	*C*	*C*	0
	HCV-1042A-20A	e	A	AUXAA		3 WAY SOLENOID VALVE FOR HCV-1042A	MS	81	1040	15WD19N4A	NA	SR	*0*	*C*	0
	HCV-1042A-20B	0	A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-1042A	MS	81	1046	0EG12S5B	AI-41B-12	S	NA	NA	0
	HCV-1042A-20C	0	A	AUXAA		3 WAY SOLENOID VALVE FOR HCV-1042A	MS	81	1046	@G12SSB	AI-41B-12	S	NA	NA	0
	HCV-1042A-O	2	A	AUXIA		CONTROL VALVE OPERATOR FOR HCV-1042A	MS	81	1046	02EG10S5B	AI-41B-12	S	NA	NA	0
	HCV-1042B	7	A	DHR		MSIV CHECK	MS	81	1040	15WD-10S5B	NA	S	NA	NA	0
	HCV-1042C	2	P	DHR		RC-2B BYPASS ISOLATION VALVE	MS	81	1040	15WD19N4A	NA	S	NA	NA.	0
AND THE PROPERTY AND ADDRESS OF	HCV-1107A	7	A	DHR		RC-2A AFW INLET VALVE	MS	81	1042	10EG-20N4A	NA	SR	*C*	*C*	0
	HCV-1107A-20	0	A	AUXIA			FW-AF	CONT	1050	15WBB09NII	NA .	SR	*C*	*0*	0
	HCV-1107A-O	7	A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-1107A	FW-AF	CONT	1050	15WBB09NII	AI-41A-02	S	NA	NA	0
HCV-1107B		6	A	AUXIA		CONTROL VALVE OPERATOR FOR HCV-1107A		CONT	1050	15WBB09NII	NA	S	NA	NA	. 0
HCV-1107B		7	A	DHR		TRANSDUCER FOR HCV-1107B		81	1038	00WH04N3A	NA	S	NA	NA	0
	HCV-1107B-20A	0		AUX/IA		RC-2A AFW INLET VALVE	FW-AF	81	1038	00WH-4N3A	NA	SR	*C*	*0*	0
	HCV-1107B-20B	0	A			3 WAY SOLENOID VALVE FOR HCV-1107B	FW-AF	81	1041	00WH04N3A	AI-41B-04	5	NA	NA	0
	HCV-1107B-20C		A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-1107B	FW-AF	81	1038	00WH04N3A	AI-41B-04	S	NA	NA	0
		0	A	DHR		RC-2A AFW INLET VALVE SOLENOID	FW-AF	81	1042	3EH-5N3A	NA	S	NA	NA	0
	HCV-1107B-O		A	AUXÆA		CONTROL VALVE OPERATOR FOR HCV-1107B	FW-AF	81	1038	COWH-4N3A	NA	S	NA	NA	0
HCV-1108A			A	DHR		RC-2B AFW INLET VALVE	FW-AF	CONT	1050	14WBB-31NIII	NA	SR	*C*	*0*	0
	HCV-1108A-20	0	A	AUXAA		3 WAY SOLENOID VALVE FOR HCV-1108A	FW-AF	CONT	1048	14WBB-31NIII	AI-41A-02	S	NA	NA	0
	HCV-1108A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-1108A	FW-AF	CONT	1050	HWBB-3INIII		S	NA	NA	0
HCV-1108B		0	A	AUX/IA		TRANSDUCER FOR HCV-1108B	FW-AF	81	1040	02EJ00N5B	NA	S	NA	NA	0
HCV-1108B		7	A	DHR		RC-2B AFW INLET VALVE	FW-AF	18	1038	02EJ-0N5B	NA	SR	*C*	*0*	0
	HCV-1108B-20A	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-1108B	FW-AF	81	1041	02EJ00N5B	AI-41B-04	S	NA.	NA	0
HCV-1108B	HCV-1108B-20B	0	A	AUX/IA	15794	3 WAY SOLENOID VALVE FOR HCV-1108B	FW-AF	81	1042	01EJ00N5B	AI-41B-04	S	NA	NA	0

BOX	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL !	NORMAL	REQD	NOTES
HCV-110	8B HCV-1108B-20C	0	A	DHR	15794	RC-2B AFW INLET VALVE SOLENOID	FW-AF	81	1039	3E3-1S5B	NA	s	NA	NA	0
HCV-110	8B HCV-1108B-O	7	A	AUX/IA	15794	CONTROL VALVE OPERATOR FOR HCV-1108B	FW-AF	81	1038	02EJ-0N5B	NA	S	NA	NA	0
HCV-138	4 HCV-1384	7	P	DHR	56510	FW-AFW CROSS CONNECT VALVE	FW-AF	81	1039	22ED-21N5B	NA	SR	*C*	*C*	0
HCV-138:	5 HCV-1385	7	A	DHR	10459	RC-2B FEEDWATER INLET VALVE	FW	81	1038	20WD20N4A	NA	SR	*0*	*C*	0
PCV-138	5 HCV-1385-M	0	A	DHR	15869	CONTROL VALVE OPERATOR MOTOR FOR HCV-1185	FW	81	1943	20WD17N4A	MCC-3A1-E04	S	NA	NA	0
HCV-138	5 HCV-1385-O	0	Α.	DHR	15869	CONTROL VALVE OPERATOR FOR HCV-1385	FW	81	1043	20WD20N4A	NA	S	NA	NA	0
HCV-138	6 HCV-1386	7	A	DHR	10459	RC-2A FEEDWATER INLET VALVE	FW	81	1038	9EG-15S4A	NA	SR	*O*	*C*	0
HCV-138	6 HCV-1386-M	0	A	DHR	15869	CONTROL VALVE OPERATOR MOTOR FOR HCV-1386	FW	81	1043	9EG-15S4A	MCC-4C1-E04	S	NA	NA	0
HCV-138	HCV-1386-O	0	A	DHR	15869	CONTROL VALVE OPERATOR FOR HCV-1386	FW	81	1043	9EG-15S4A	NA	S	NA	NA	0
HCV-1387	7A HCV-1387A	7	A	DHR	10459	RC-2B BLOW DOWN ISOLATION VALVE	FW-BD	CONT	998	13WBB07NIV	NA	SR	*0*	*C*	0
HCV-1387	A HCV-1387A-20	0	A	DHR	22745	RC-2B BLOW DOWN ISOLATION VALVE SOLENOID	FW-BD	CONT	1002	13WBB-7NTV		S	NA	NA	0
HCV-1387	7A HCV-1387A-O	7	A	DHR	22745	RC-2B BLOW DOWN ISOLATION VALVE OPERATOR	FW-BD	CONT	1000	13WBB-7NTV		S	NA	NA	0
HCV-138	7B HCV-13879	7	A	DHR	10459	RC-2B BLOW DOWN ISOLATION VALVE	FW-BD	13	992	4WN2N6B	NA	SR	*0*	*C*	0
HCV-1387	7B HCV-1387B-20	0	A	DHR	22745	RC-2B BLOW DOWN ISOLATION VALVE SOLENOID		13	995	4W'N-2N'6B	AI-41B-14	S	NA	NA	0
HCV-138	7B HCV-1387B-O	7	A	DHR	22745	RC-2B BLOW DOWN ISOLATION VALVE OPERATOR		13	992	4W'N-2N'6B	NA	S	NA	NA	0
HCV-1388	IA HCV-1388A	7	A	DHR	10459	RC-2A BLOW DOWN ISOLATION VALVE	FW-BD	CONT	998	24WAA9NIV	NA	SR	*0*	*C*	0
HCY-1388	BA HCV-1388A-20	0	A	DHR	22745	RC-2A BLOW DOWN ISOLATION VALVE SOLENOID	FW-BD	CONT	999	24W AA-ONTV	AI-41A-14	S	NA	NA	0
HCV-1388	IA HCV-1388A-O	7	A	DHR	22745	RC-2A BLOW DOWN ISOLATION VALVE OPERATOR	FW-BD	CONT	999	24W AA-ONTV		S	NA	NA	0
HCV-1388	BB HCV-1388B	7	A	DHR	10459	RC-2A BLOW DOWN ISOLATION VALVE	FW-BD	13	991	08EN01S6B	NA	SR	*0*	*C*	0
HCV-1388	BB HCV-1388B-20	0	A	DHR	22745	RC-2A BLOW DOWN ISOLATION VALVE SOLENOID	FW-BD	13	995	8EN-15'6B	Al-41B-14	S	NA	NA	0
HCV-1388	BB HCV-1388B-O	7	A	DHR	22745	RC-2A BLOW DOWN ISOLATION VALVE OPERATOR	FW-BD	13	994	8EN-15'6B	NA	S	NA	NA	6
HCV-150	HCV-150	7	A	PC	42107	PORV BLOCKING VALVE	RC	CONT	1047	04WDD10NII	NA	SR	*0*	*C*	0
HCV-150	HCV-150-M	0	A	PC	15286	CONTROL VALVE OPERATOR MOTOR FOR HCV-150	RC	CONT	1047	04WDD10NII	MCC-3B1-H02	S	NA	NA	0
HCV-150	HCV-150-O	0	A	PC	15286	CONTROL VALVE OPERATOR FOR HCV-150	RC	CONT	1047	04WDD10NH	NA	S	NA	NA	0
HCV-151	HCV-151	7	A	PC	42107	PORV BLOCKING VALVE	RC	CONT	1047	21WCC08NH	NA	SR	*0*	*C*	0
HCV-151	HCV-151-M	0	A	PC	15287	CONTROL VALVE OPERATOR MOTOR FOR HCV-151	RC	CONT	1047	21WCC08NH	MCC-4A1-C05	S	NA	NA	0
HCV-151	HCV-151-0	0	A	PC	15287	CONTROL VALVE OPERATOR HCV-151	RC	CONT	1047	21WCC08NH	NA	8	NA	NA	0
HCV-176	HCV-176	7	P	INV	20663	REACTOR HEAD VENT VALVE	RC	CONT	1043	6WBB-30NTI	NA	N	LC	C	8
HCV-177	HCV-177	7	P	INV	20663	REACTOR HEAD VENT VALVE	RC	CONT	1043	6WBB-30NTI	NA	N	LC	C	8
HCV-178	HCV-178	7	P	INV	20663	PRESSURIZER RC-4 VENT STOP VALVE	RC	CONT	1054	16W°CC-6NTI	NA	N	LC	C	8
HCV-179	HCV-179	7	P	INV	20663	HCV-178 TO RCGVS; BYPASS VALVE	RC	CONT	1052	16WCC-6NTI	NA	N	LC	C	8
HCV-238	HCV-238	7	P	INV,R,P	55158	LOOP CHARGING VALVE	CH	CONT	999	06WBB25NII	NA	SR	*0*	*0*	0
HCV-239	HCV-239	7	P	INV,R,P	55158	LOOP CHARGING VALVE	CH	CONT	1000	24WCC-24NIII	NA	SR	*0*	*0*	0
HCV-240	HCV-240	7	A	PC,R,P	55158	CVCS TO SPRAY LINE ISOLATION VALVE	CH	CONT	1045	14WDD06NB	NA	SR	*C*	*0*	0
HCV-240	HCV-240-20	0	A	AUX/IA	49211	3 WAY SOLENOID VALVE FOR HCV-240	CH	CONT	1051	18WDD15NII	NA	S	NA	NA	0
HCV-240	HCV-240-O	7	A	PC,R,P	49211	CVCS TO SPRAY LINE ISOLATION VALVE OPERATOR	CH	CONT	1045	14WDD-6NTI	NA	S	NA	NA	0
HCV-247	HCV-247	7	P	INV,R,P	55158	LOOP CHARGING SOLENOID CONTROL VALVE	CH	CONT	1002	07WBB26NII	NA	SR	*0*	*0*	0
HCV-248	HCV-248	7	P	INV,R,P	55158	LOOP CHARGING SOLENOID CONTROL VALVE	CH	CONT	1000	16WCC09NII	NA	SR	*0*	*0*	0
HCV-249	HCV-249	7	A	PC,R,P	55158	CVCS TO SPRAY LINE ISOLATION VALVE	CH	CONT	1045	18WDD12NH	NA	SR	*C*	*0*	0
HCV-2504	A HCV-2504A	7	P	INV	10442	RC SAMPLE LINE CONTAINMENT ISOL VALVE	SL-PRI	CONT	1018	6WEE-0NTV	NA	SR	*C*	***	0
	A HCV-2506A	7	p	INV	10442	SG RC-2A SAMPLE CONTAINMENT ISOL VALVE	SL-PRI	CONT	1016		NA	SR	«C*	*(*	0
	A HCV-2507A	7	P	INV		SG RC-2B SAMPLE CONTAINMENT ISOL VALVE	SL-PRI	CONT	1018	27WBB-35NBI		SR	C	C	0
HCV-257	HCV-257	7	P	RC	10478	B.A.S.T. CH-11B; RECIRC VALVE	CH	26	1014		NA	SR	*C*	*C*	0
HCV-258	HCV-258	7	A	INV,R,P	10478	BAST OUTLET ISOLATION VALVE	CH	26	1010	12WT6N6E	NA	SR	*C*	*0*	0
				RC	10478							-	-	100	100

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL.	NORMAL	REQD	NOTES
HCV-265	(4CV-265	7	A	INV,R,P	10478	BAST OUTLET ISOLATION VALVE	CH	26	1010	30EU7N6E	NA	SR	*C*	*0*	0
HCV-268	HCV-268	7	P	RC	55250	BORIC ACID PUMP TO CHARGING: ISOL VALVE	CH	26	1016	16EU-9N'6E	NA	N	C	C	2
HCV-2805A	HCV-2805A	7	A	AUX/RW	10454	R.W. AC-12A; BACKWASH CONTROL VALVE	AC-RW	INTK	0997	7W'BB-4N'102	NA	SR	C	0	0
HCV-2805A	HCV-2805A-20	8B	A	AUX/RW	43125	R.W. AC-12A; BACKWASH CONTROL VALVE SOLENOID	AC-RW	INTK	0997	7W'BB-3N'102	MCC-3B3-A04	S	NA	NA	0
HCV-28058	HCV-2805B	7	A	AUX/RW	10454	R.W. AC-12E: BACKWASH CONTROL VALVE	AC-RW	ENTK	0995	3E°CC-5S'105	NA	SR	C	0	0
HCV-2805B	HCV-2805B-20	8B	A	AUX/RW	43125	R.W. AC-12B; BACKWASH CONTROL VALVE SOLENOZD	AC-RW	INTK	0995		MCC-4C4-D07	S	NA	NA	0
	HCV-2808C	7	P	AUX/CCW	55197	RAW WATER CROSSTIE; INJET VALVE	AC-RW		0975	7E'U-9N'6E	NA	N	LC	C	3
The state of the s	HCV-2809C	7	P			RAW WATER CROSSITE: INLET VALVE	AC-RW	22	0975	4ET-13N'6E	NA	N	LC	C	3
	HCV-2810C	7	P	AUX/CCW	55197	RAW WATER CROSSTIE: INLET VALVE	AC-RW		0975	4E'U-12N'6E	NA	N	LC	C	3
	HCV-2811C	7	P			RAW WATER CROSSTIE: INLET VALVE	AC-RW		6975	5ET-35'8A	NA	N	LC	C	3
	HCV-2812C	7	P	AUX/CCW	55197	RAW WATER CROSSTIE: INLET VALVE	AC-RW		0975	50WT-26N'6E	NA	N	LC	C	3
	9CV-2813C	7	P			RAW WATER CROSSTIE: INLET VALVE		21	0975	8E'U-15'6E	NA	N	LC	c	3
	HCV-2814C	7	P			RAW WATER CROSSTIE: INLET VALVE	AC-RW	22	0975	4ET-12S'6E	NA	N	LC	C	1
	HCV-2815C	7	P			RAW WATER CROSSTIE: INLET VALVE		22	0972	4ET-5N6E	NA	N	LC	c	3
HCV-2850		7	A	AUX/RW		AC-10A OUTLET VALVE	AC-RW		1000	6ECC6S103	NA	8	*0*	*0*	0
	HCV-2850-20	0	A	AUX/IA		3 WAY SOLENOID FOR HCV-2850	AC-RW	INTK	1000	6ECC6S103	AI-41A-12	5	NA	NA .	0
	HCV-2850-O	7	A	AUXAA		CONTROL VALVE OPERATOR FOR HCV-2850	AC-RW	ENTK	1000	6ECC6S103	NA	5	NA	NA	0
HCV-2851		7	A	AUX/RW		AC-10B OUTLET VALVE	AC-RW	INTK	1000	6ECC6N103	NA	5	*0*	*0*	0
	HCV-2851-20	0	A	AUX/RW		AC-10B OUTLET VALVE SOLENOID	AC-RW	INTK	1000	6EYCC-6N°103	Al-41B-12	8	NA	NA	0
	HCV-2851-O	7	A	AUX/RW		AC-10B OUTLET VALVE OPERATOR	AC-RW	ENTK	1000	6ECC-6N'103	NA NA	6	NA	NA	0
HCV-2852		7	A	AUX/RW		AC-10C OUTLET VALVE	AC-RW	INTK	1000	6ECC6S104	NA	S	*0*	*0*	0
	HCV-2852-20	0	A	AUX/RW		AC-10C OUTLET VALVE SOLENOID	AC-RW	INTK	1000	6E'CC-6S'104	AI-41A-12	5	NA	NA	0
	HCV-2852-O	7	A	AUX/RW		AC-10C OUTLET VALVE OPERATOR	AC-RW	ENTK	1000	6ECC-65'104	NA NA	S	NA	NA	0
HCV-2853		7	A	AUX/RW		AC-10D OUTLET VALVE	AC-RW	INTK	1000	6ECC6N104	NA	5	*0*	*0*	0
The second second second	HCV-2853-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2853	AC-RW	INTK	0001	6ECC6N104	AI-41B-12	S	NA	NA	0
	HCV-2853-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2853	AC-RW	INTK	1000	6ECC5N104	NA NA	6	NA	NA	0
HCV-2859		7	p	AUX/CCW		CEDM SEAL COOLING FLOW CONTROL VALVE	AC-CC	CONT	1016	15WAA6NIII	NA ·	5	0	0	0
HCV-2861	The Control of the Co	7	p	AUX/RW		R.W. SUPPLY TO WATERPLANT: ISOL VALVE	AC-RW	109	1007	1W'SA-24N'7	NA	SR	*C*	*C*	0
	HCV-2874A	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE	AC-RW	INTK	1001	6ECC-4S 103	NA.	SR	*0*	*0*	0
	HCV-2874A-20	0	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL, VALVE SOLENOID	AC-RW	INTK	1001	6E°CC-4S°103	AI-41A-12	S	NA	NA	0
	HCV-2874A-O	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE OPERATOR	AC-RW	INTK	1001	6E/CC-4S'103		5	NA NA	NA	0
	HCV-2874B	,	A	AUX/RW		R W. PUMPS DISCH HEADER ISOL VALVE	AC-RW	INTK	1001	6ECC-48 103		en	*0*	*0*	0
	CONT. 2012 (AUG. 2012)	0	A	AUX/RW		R W PUMPS DISCH HEADER ISOL VALVE SOLENOID	AC-RW	ENTK	1002			SR	100		
	HCV-2874B-20	7	A	AUX/RW		R W. PUMPS DISCH HEADER ISOL VALVE OPERATOR	AC-RW	ENTK	1001	6E'CC-4N'103		S	NA	NA	0
	HCV-2874B-O	7		AUX/RW		R W. PUMPS DISCH HEADER ISOL VALVE				6ECC-4N'103		S	NA	NA	0
	HCV-2875A		A				AC-RW	INTK	1001	6ECC-7N'103	NA	SR	•0•	*0*	- 0
	HCV-2875A-20	0	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE SOLENOID	AC-RW		1001	6ECC-7N'103		S	NA	NA	0
	HCV-2875A-O	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE OPERATOR	AC-RW	INTK	1001	6ECC-7N'103	NA	S	NA	NA	0
	HCV-2875B	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE	AC-RW	INTK	1001	6E°CC-8S°104		SR	•0•	*()*	0
College of the College	HCV-2875B-20	0	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE SOLENOID	AC-RW	INTK	1001	6E°CC-8S°104	AI-41B-12	S	NA	NA	0
HCV-2875B	HCV-2875B-O	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE OPERATOR	AC-RW	INTK	1001	6E'CC-8S'104	NA	S	NA	NA	0
	HCV-2876A	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE	AC-RW	ENTK	1901	6E°CC-4S°104	NA	SR	*0*	.O.	0
HCV-2876A	HCV-2876A-20	0	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE SOLENOID	AC-RW	INTK	1001	6E°CC-4S'104	AI-41A-12	5	NA	NA	0
HCV-2876A	HCV-2876A-O	7	A	AUX/RW		R.W. PUMPS DISCH HEADER ISOL VALVE OPERATOR	AC-RW	INTK	1001	6E°CC-4S'104		S	NA	NA	0
HCV-2876B	HCV-2876B	7	A	AUX/RW		R.W. PUMP'S DISCH HEADER ISOL VALVE	AC-RW	INTK	1001	12WBB-4N104		SR	*0*	*()*	0
HCV-2876B	HCV-2876B-20	0	A	AUX/RW	12597	R.W. PUMPS DISCH HEADER ISOL VALVE SOLENOID	AC-RW	INTK	1061	6E°CC-4N°104	AI-41B-12	S	NA	NA	0

BOX	ASSEL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES	
HCV-2876B	HCV-2876B-O	7	A	AUX/RW	12597	R.W. PUMPS DISCH HEADER ISOL VALVE OPERATOR	AC-RW	INTK	1001	6E°CC-4N°104	NA	s	NA	NA	0	
HCV-2877A	HCV-2877A	7	A	AUX/RW	10454	RW HEADER CROSS CONNECT VALVE	AC-RW	18	993	13ED12S6D	NA	SR	*0*	*0*	0	
HCV-2877A	HCV-2877A-20	0	A	AUXIA	16057	3 WAY SOLENOID VALVE FOR HCV-2877A	AC-RW	18	0993	13ED12S6D	A8-41A-12	S	NA	NA	0	
	HCV-2877A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2877A	AC-RW		0993	13ED12S6D	NA	S	NA	NA	0	
	HCV-2877B	7	A	AUX/RW	10454	RW HEADER CROSS CONNECT VALVE	AC-RW		993	13ED08S6D	NA	SR	*0*	*0*	. 0	
	HCY-2877B-20	0	A	AUX/IA	16057	3 WAY SOLENOID VALVE FOR HCV-2877B		18	0993	13ED08S6D	AI-41A-12	8	NA	NA	0	
	HCV-2877B-O	7	A	AUXIA		CONTROL VALVE OPERATOR FOR HCV-2877B	AC-RW		0993	13ED08S6D	NA	S	NA	NA	0	
	HCV-2878A	7	A	AUX/RW		RW HEADER CROSS CONNECT VALVE	AC-RW		993	13ED04S6D	NA	SR	*0*	*0*	0	
	HCV-2878A-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2878A	AC-RW		0993	13ED04S6D	AI-41B-12	S	NA	NA	0	
	HCV-2878A-O	7	A	AUXAA	16058	CONTROL VALVE OPERATOR FOR HCV-2878A	AC-RW		0993	13ED04S6D	NA	5	NA	NA	0	
SAME TO SERVICE STATE OF THE S	HCV-2878B	7	Α.	ALIX/RW	10454	RW HEADER CROSS CONNECT VALVE		18	993	13ED03S6D	NA	SR	*0*	*0*	0	
	HCV-2878B-20	0	A	AUX/IA	16058	3 WAY SOLENOID VALVE FOR HCV-2878B		18	0993	13ED03S6D	AI-41B-12	S	NA	NA	0	
	HCV-2878B-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2878B	AC-RW		0993	13ED03S6D	NA	8	NA	NA	0	
	HCV-2879A	7	A	AUX/RW		RW HEADER CROSS CONNECT VALVE	AC-RW		993	13ED04N6D	NA	SR	*0*	*0*	6	
	HCV-2879A-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2879A	AC-RW		0993	13ED64N6D	AI-41A-12	S	NA	NA	0	
	HCV-2879A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2879A		18	0993	13ED04N6D	NA	S	NA	NA	0	
	HCV-2879B	7	A	AUX/RW		RW HEADER CROSS CONNECT VALVE	AC-RW		993	I3ED06N6D	NA	SR	*0*	*0*	0	
	HCV-2879B-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2879B	AC-RW		0993	13ED06N6D	AI-41A-12	S	NA	NA	0	
	HCV-2879B-O	7	A	AUXAA		CONTROL VALVE OPERATOR FOR HCV-2879B	AC-RW		0993	13ED06N6D	NA	S	NA	NA	0	
	HCV-2880A	7	A	AUX/RW		AC-1A RW INLET VALVE	AC-RW		994	13ED06S6D	NA	SR	*0*	•0•	0	
	HCV-2880A-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2880A	AC-RW	18	0997	13ED06S6D	AI-41A-12	S	NA	NA.	0	
	HCV-2880A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2880A	AC-RW		0994	13ED06S6D	NA	5	NA	NA	0	
	HCV-2880B	7	A	AUX/RW			AC-RW		991	07WD04N5B	NA	SR	*0*	*0*	0	
	HCV-2880B-20	0	A	AUXIA		3 WAY SOLENOED VALVE FOR HCV-2880B	AC-RW		0994	07WDG4N5B	AI-41A-12	S	NA	NA	0	
	HCV-288//B-O	7	A	AUXAA		CONTROL VALVE OPERATOR FOR HCV-2880B	AC-RW		0991	07WD04N5B	NA	S	NA	NA	0	
	HCV-2881A	7	A	AUX/RW		AC-IB RW INLET VALVE	AC-RW		994	13ED01N6D	NA	SR	*0*	*0*	0	
The second secon	HCV-2881A-20	0	A	AUXAA	-	3 WAY SOLENOID VALVE FOR HCV-2881A	AC-RW	7.7	0997	13ED01N6D	Al-41B-12	S	NA	NA	0	
	HCV-2881A-O	7	A	AUXIA	16060	CONTROL VALVE OPERATOR FOR HCV-2881A	AC-RW		0994	13ED01N6D	NA	5	NA	NA	0	
	HCV-2881B	7	A	AUX/RW		AC-1B RW OUTLET VALVE	AC-RW		1003	07WD04N5B	NA	SR	*0*	*0*		
	HCV-2881B-20	0	A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-2881B	AC-RW		0999	07WD04N5B	AI-41B-12	S	NA	NA	0	
	HCV-2881B-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2881B	AC-RW		1003	67WD04N5B	NA NA	5	NA	NA	0	
	HCV-2882A	,	A	AUX/RW		AC-IC RW INLET VALVE	AC-RW		994	08ED09N4A	NA	SR	10*	20*	0	
	IiCV-2882A-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2882A	AC-RW		0994	08ED09N4A	AI-41A-12	S	NA		0	
	HCV-2882A 2	7	A	AUXIA	10.000.000	CONTROL VALVE OPERATOR FOR HCV-2882A	AC-RW		0994	08ED09N4A	NA NA	S	NA.	NA	0	
		7	A	AUX/RW		AC-IC RW OUTLET VALVE	AC-RW		999	04ED09N5B	NA	SR	*0*	NA *O*	0	
	HCV-2382B	. 0	A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-2882B	AC-RW		0999			-		-	0	
	HCV-2882B-20					CONTROL VALVE OPERATOR FOR HCV-2882B				04ED09N5B	AI-41A-12	S	NA	NA		
	HCV-2882B-O	7	A	AUXIA		AC-1D RW INLET VALVE	AC-RW		0999	04ED09N5B	NA	S	NA	NA	0	
	HCV-2883A	7	A	AUX/RW			AC-RW		994	08ED07S7A	NA	SR	*0*	*0*	0	
	HCV-2883A-20	0	A	AUXIA		3 WAY SOLENOID VALVE FOR HCV-2883A	AC-RW	18	0994	08ED07S7A	AI-41B-12	S	NA	NA	0	
	HCV-2883A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2883A	AC-RW		9994	68ED07S7A	NA	S	NA	NA	0	
	HCV-2883B	7	A	AUX/RW		AC-ID RW OUTLET VALVE	AC-RW			04ED16S6D	NA	SR	*0*	*0*	0	
	HCV-2883B-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-2883B	AC-RW		0999	04ED16S6D	AI-41B-12	S	NA	NA	0	
	HCV-2883B-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-2883B		18	0999	04ED16S6D	NA	S	NA	NA	0	
HCV-2893		7	P	AUX/RW				18	993	13E'D-195'6D	NA	N	NA	NA	10	
HCV-2894	HCV-2894	7	P	AUXIRW	10454	RAW WATER TO CCW ISOLATION VALVE	AC-RW	18	993	13E'D-24S'6D	NA	N	NA	NA	10	

HCV-28958 HCV-28987 HCV-28987 HCV-28988 HCV-28988	HCV-2895A HCV-2895B HCV-2898A HCV-2898A-20 HCV-2898A-O	7 7 7	P	AUX/CCW	*****										
HCV-2898/ HCV-2898/ HCV-2898/ HCV-2898/	HCV-2898A HCV-2898A-20		P		22130	WASTE EVAPORATOR/PRIMARY SAMPLE COOLER CCW OUTLET	AC-CC	30	1013	14WT-958A	NA	N	NA	NA	2
HCV-2898/ HCV-2898/ HCV-2898F	HCV-2898A-20	7		AUX/CCW	55196	WASTE EVAPORATOR/PRIMARY SAMPLE COOLER CCW INLET VA	AC-CC	30	1014	15WT-9S8A	NA	N	NA	NA	2
HCV-2898F HCV-2898F			A	AUX/CCW	10440	CONTROL ROOM HVAC ISOLATION	AC-CC	81	1037	7W314N6	NA	SR	*0*	*0*	0
HCV-2898E HCV-2898E	HCV-2898A-O	0	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION SOLENOID	AC-CC	81	1939	7WJ-14N6	AI-41A-12	S	NA	NA	0
HCV-28981		7	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION OPERATOR	AC-CC	81	1037	7W3-14N6	NA	S	NA	NA	0
	HCV-2898B	7	A	AUX/CCW	10440	CONTROL ROOM HVAC ISOLATION	AC-CC	81	1037	9W315N6	NA	SR	*0*	*0*	0
11/7/ 20001	HCV-2898B-20	0	A	AUX/CCW	41671	CONTROL ROOM HV AC ISOLATION SOLENOID	AC-CC	81	1039	7W7-15N6	AI-41A-12	S	NA	NA	0
115 A - 50A01	HCV-2898B-O	7	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION OPERATOR	AC-CC	81	1037	9W3-15N6	NA	S	NA	NA	0
HCV-28980	HCV-2898C	7	P	AUX/CCW	10440	CONTROL RM VA-46A; R.W. INLET VALVE	AC-RW	81	1039	4W3-14N6	NA.	N	LC	C	3
HCV-28981	HCV-2898D	7	P	AUX/CCW	10440	CONTROL RM VA-46A; R.W. OUTLET VALVE	AC-RW	81	1039	4W3-15N6	NA	N	LC	C	3
HCV-2899/	HCV-2899A	7	A	AUX/CCW	10440	CONTROL ROOM HVAC ISOLATION	AC-CC	81	1037	6WG14N6	NA	SR	*0*	*0*	0
HCV-2899/	HCV-2899A-20	0	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION SOLENOID	AC-CC	81	1040	6WG-14N6	AI-41B-12	S	NA	NA	0
HCV-2899.	HCV-2899A-O	7	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION OPERATOR	AC-CC	81	1037	6W'G-14N'6	NA	S	NA	NA	0
HCV-28991	HCV-2899B	7	A	AUX/CCW	10440	CONTROL ROOM HVAC ISOLATION	AC-CC	81	1037	6WG15N6	NA	SR	*0*	*0*	0
HCV-28991	HCV-2899B-20	0	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION SOLENOID	AC-CC	81	1037	6WG-15N6	AI-41B-12	S	NA	NA	0
HCV-2899F	HCV-2899B-O	7	A	AUX/CCW	41671	CONTROL ROOM HVAC ISOLATION GPERATOR	AC-CC	81	1037	6WG-15N%	NA.	S	NA	NA	0
HCV-28990	HCV-2899C	7	P	AUX/CCW	10440	CONTROL RM VA-46B; R.W. INLET VALVE	AC-RW	81	1037	4W'G-14N'6	NA	N	LC	C	3
HCV-28991	HCV-2899D	7	P	AUX/CCW	10440	CONTROL RM VA VA-46B; R.W. OUTLET VALVE	AC-RW	81	1037	4W'G-15N'6	NA	N	LC	C	3
HCV-2988	HCV-2988	7	P	RC	56027	HPSI ISOL VALVE HCV-308; BYPASS VALVE	SI-HP	13	0997	17WP-5N6C	NA	N	C	C	2
HCV-308	HCV-308	7	P	RC	56027	HPSI TO CHARGING HEADER CROSSTIE VALVE	SI-HP	13	0993	16WP-5N'6C	NA	N	C	C	2
HCV-348	HCV-348	7	P	INV	41901	LOOP 2 TO SHUTDOWN COOLING; ISOL VALVE	SI-LP	CONT	1003	OWCC-20NH	NA	N	LC	С	9
HCV-400A	HCV-400A	7	A	AUX/CCW	35367	VA-1A HX INLET VALVE	AC-CC	69	1027	08WN06N6B	NA	SR	*0*	*0*	0
HCV-400A	HCV-400A-20	0	A	AUX/IA	49211	3 WAY SOLENOID VALVE FOR HCV-400A	AC-CC	69	1027	08WN06N6B	AI-41A-12	5	NA	NA	0
HCV-400A	HCV-400A-O	7	A	AUX/IA	16261	CONTROL VALVE OPERATOR FOR HCV-400A	AC-CC	69	1027	08WN06N6B	NA	S	NA	NA	0
HCV-400B	HCV-400B	7	A	AUX/CCW	35367	VA-1A HX INLET VALVE	AC-CC	69	1030	09EP08N6C	NA	SR	*0*	*0*	0
HCV-400B	HCV-400B-20	0	A	AUXAA	49211	3 WAY SOLENOID VALVE FOR HCV-400B	AC-CC	69	1030	09EP08N6C	AI-41B-12	S	NA	NA	0
HCV-400B	HCV-400B-O	7	A	AUX/IA	16251	CONTROL VALVE OPERATOR FOR HCV-400B	AC-CC	69	1030	09EP08N6C	NA	S	NA	NA	0
HCV-400C	E/P-400C	18	A	AUX/IA	15339	CONOFLOW ELECTRO-PNEUMATIC TRANSDUCER	AC-CC	69	1027	08WP03N6C	AI-40A-1	S	NA	NA	0
PCV-400C	HCV-400C	7	A	AUX/CCW	35367	VA-1A HX OUTLET VALVE	AC-CC	69	1027	08WP03N6C	NA	SR	*()*	*0*	0
HCV-400C	HCV-400C-20	0	A	AUXAA	49211	3 WAY SOLENOID VALVE FOR HCV-400C	AC-CC	69	1027	08WP03N6C	AI-41A-12	S	NA	NA	0
HCV-400C	HCV-400C-0	7	A	AUXIA	16261	CONTROL VALVE OPERATOR FOR HCV-400C	AC-CC	69	1027	08WP03N6C	NA	S	NA	NA	0
HCV-400D	HCV-400D	7	Α	AUX/CCW	35367	VA-1A HX OUTLET VALVE	AC-CC	69	1031	09WP10N6C	NA	SR	*0*	*0*	0
HCV-400D	HCV-400D-20	0	A	AUX/IA	49211	3 WAY SOLENOID VALVE FOR HCV-400D	AC-CC	69	1031	09WP10N6C	Al-41B-12	S	NA	NA	0
HCV-400D	HCV-400D-O	7	A	AUX/IA	16261	CONTROL VALVE OPERATOR FOR HCV-400D	AC-CC	69	1031	09WP10N6C	NA	S	NA	NA	0
HCV-400E	HCV-400E	7	P	AUX/CCW	35367	RAW WATER CROSSTIE; INLET VALVE	AC-RW	69	1027	9EP-13N'6C	NA	N	LC	C	3
HCV-400F	HCV-400F	7	P	AUX/CCW	35367	RAW WATER CROSSTIE, OUTLET VALVE	AC-RW	69	1027	11WP-15N6C	NA	N	LC	C	3
HCV-401A	HCV-401A	7	A	AUX/CCW	35367	VA-1B HX INLET VALVE	AC-CC		1627	07EP03N6C	NA	SR	*0*	*C*	0
HCV-401A	HCV-401A-20	0	A	AUX/IA	49211	3 WAY SOLENOID VALVE FOR HCV-401A	AC-CC	69	1027	07EP03N6C	AI-41A-12	S	NA	NA	0
	HCV-401A-O	7	A	AUX/IA	15342	CONTROL VALVE OPERATOR FOR HCV-401A	AC-CC		1027	07EP03N6C	NA	S	NA	NA	0
	HCV-401B	7	A	AUX/CCW	35367	VA-IB HX INLET VALVE	AC-CC		1030	07EP08N6C	NA	SR	*0*	*0*	0
The second secon	HCV-401B-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-401B	AC-CC		1030	07EP08N6C	AI-41B-12	S	NA	NA	0
	HCV-401B-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-401B		69	1030	07EP08N6C	NA	5	NA	NA	0
HCV-401C	The second secon	18	A	AUX/IA		CONOFLOW ELECTRO-PNEUMATIC TRANSDUCER	AC-CC		1027	10WP05N6C	A5-40A-1	S	NA	NA	0
	HCV-401C	2	A	AUX/CCW		VA-IB HX OUTLET VALVE		69	1027	10WP5N6C	NA	SR	*0*	*0*	0
	HCV-401C-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-401C	AC-CC		1027	10WP5N6C	AI-41A-12	S	NA	NA	0

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
HCV-401C	HCV-401C-0	7	A	АUХЛА	15342	CONTROL VALVE OPERATOR FOR HCV-401C	AC-CC	69	1027	10WP5N6C	NA	S	NA	NA	0
HCV-401D	HCV-40ID	7	A	AUX/CCW	35367	VA-IB HX OUTLET VALVE	AC-CC	69	1031	10WP12N6C	NA	SR	*0*	*0*	0
HCV-401D	HCV-401D-20	0	A	AUX/IA	49211	3 WAY SOLENOID VALVE FOR HCV-401D	AC-CC	69	1031	10WP12N6C	AI-41B-12	S	NA	NA	0
HCV-401D	HCV-401D-0	7	A	AUXAA	15342	CONTROL VALVE OPERATOR FOR HCV-401D	AC-CC	59	1031	10WP12N6C	NA	S	NA	NA	0
HCV-401E	HCV-401E	7	P	AUX/CCW	35367	RAW WATER CROSSTIE: INLET VALVE	AC-RW	69	1027	7EP-13N6C	NA	N	LC	C	3
HCV-401F	HCV-401F	7	P	AUX/CCW	35367	RAW WATER CROSSTIE; OUTLET VALVE	AC-RW	69	1027	10WP-15N6C	NA	N	LC	C	3
HCV-402A	HCV-402A	7	A	AUX/CCW	35367	CNTMT VA-8A COOLING COIL - CCW INLET VALVE	AC-CC	69	1027	03EP03N6C	NA	SR	*0*	*0*	0
HCV-402A	HCV-402A-20	0	A	AUXIA	49211	CNTMT VA-8A COOLING COIL CCW INLET VALVE SOLE	AC-CC	69	1027	03EP03N6C	Al-41A-12	S	NA	NA	0
HCV-402A	HCV-402A-O	7	A	AUXJA	15345	INLET VA-8A ISOL VALVE	AC-CC		1027	03EP03N6C	NA	\$	NA	NA	0
HCV-402B	HCV-402B	7	A	AUX/CCW	35367	CNTMT VA-8A COOLING COIL - CCW INLET VALVE		69	1030	03EP08N6C	NA	SR	*0*	*0*	6
HCV-402B	HCV-402B-20	0	A	AUX/IA		CNTMT VA-8A COOLING COIL CCW INLET VALVE SOLE	AC-CC		1030	03EP08N6C	AI-41B-12	8	NA	NA	0
HCV-402B	HCV-402B-O	7	A	AUX/IA		INLET VA-8A ISOL VALVE	AC-CC		1030	03EP08NoC	NA	9	NA	NA	0
HCV-402C	E/P-402C	18	A	AUXAA	15345		AC-CC	69	1028	06WP05N6C	AI-40A-1	S	NA	NA	0
HCV-402C	HCV-402C	7	A	AUX/CCW	35367	CNTMT VA-8A COOLING COIL - CCW OUTLET VALVE	AC-CC		1027	06WP5N6C	NA.	SR	*0*	*0*	0
HCV-402C	HCV-402C-20	0	A	AUX/IA		CNTMT VA-8A COOLING COIL CCW OUTLET VALVE SOL	AC-CC	18.00	1030	06WP05N6C	AI-41A-12	\$	NA	NA	0
HCV-402C	HCV-402C-O	7	A	AUXAA		OUTLET VA-8A ISOL VALVE	AC-CC		1027	06WP05N6C	NA	\$	NA	NA	0
	HCV-402D	7	A	AUX/CCW			AC-CC		1031	05WP10N6C	NA	SR	*C*	*0*	0
	HCV-402D-20	0	A	AUX/IA	40000	CNTMT VA-8A COOLING COIL - CCW OUTLET VALVE \$	AC-CC		1031	05WP10N6C	AI-41B-12	S	NA	NA	0
	HCV-402D-O	7	A	AUX/IA		OUTLET TO VA-8A	AC-CC		1031	05WP10N6C	NA NA	S	NA	NA	0
HCV-402E		7	p			RAW WATER CROSSTIE: INLET VALVE	AC-RW		1027	3EP-13N%C	NA	N	LC	C	3
HCV-402F		2	P			RAW WATER CROSSTIE: OUTLET VALVE	AC-RW	69	1027	4WP-3S7A	NA.	N	LC	c	,
	HCV-403A	7	A			CNTMT VA-8B COOLING COIL - CCW INLET VALVE	1000	69	1027	0WP3N6C	NA	SR	*0*	*0*	0
0.0000000000000000000000000000000000000	HCV-403A-20	0	A	AUX/IA		CNTMT VA-8B COOLING COIL - CCW INLET VALVE SO	AC-CC		1027	01EP03N6C	AI-41A-12	S	NA	NA	0
	HCV-403A-O	7	A	АШХЛА		INLET VA-8B	AC-CC	69	1027	0WP3N6C	NA NA	S	NA	NA	0
	HCV-403B	7	A	AUX/CCW		CNTMT VA-8B COOLING COIL - CCW INLET VALVE		69	1030	01EP08N6C	NA	SR	*0*	*0*	0
	HCV-403B-20	0	A	АИХЛА		CNTMT VA-8B COOLING COIL CCW INLET VALVE SOLE		69	1030	01EP08N6C	AI-41B-12	S	NA	NA	0
	HCV-403B-O	7	A	AUXAA		INLET VA-8B ISOL VALVE	AC-CC		1030	01EP08N6C	NA NA	6	NA	NA	0
HCV-403C		18	A	AUX/IA		CONOFLOW ELECTRO-PNEUMATIC TRANSDUCER	AC-CC		1027	02WP03N6C	Al-40A-1	5	NA	NA	0
	HCV-403C	7	A	AUX/CCW		CNTMT VA-8B COOLING COIL - CCW OUTLET VALVE		69	1027	02WP03N6C	NA NA	SR	*0*	*0*	0
	HCV-403C-20	0	A	AUX/IA	49211		AC-CC	69	1028	62WP03N6C	AI-41A-12	S	NA	NA	0
	HCV-403C-O	7	A	AUX/IA	15348	OUTLET VA-8B ISOL VALVE	AC-CC		1027	02WP03N6C	NA NA	6	NA	NA	0
	HCV-403D	7	A	AUX/CCW		CNTMT VA-8B COOLING COIL - CCW OUTLET VALVE	AC-CC		1031	01WP08S7A	NA	SR	*C*	*0*	0
	HCV-403D-20	0	A	AUXIA		CNTMT VA-8B COOLING COIL CCW OUTLET VALVE SOL	AC-CC		1031	01WP08S7A	AI-41B-12	S	NA	NA	0
	HCV-403D-O	7	A	AUX/IA		OUTLET FOR VA-8B		69	1031	01WP08S7A	NA NA		NA	NA	6
HCV-403E	The state of the s	7	P			RAW WATER CROSSTIE, INLET VALVE		69	1027	1EP-13N6C	NA NA	3		C	
HCV-403F	The Carlot of the Carlot	7	P			RAW WATER CROSSTIE: OUTLET VALVE	AC-RW	-	1027	3WP-537A	NA	N	LC	-	3
HCV-425B		7	P			SI TANK LEAKAGE COOLER CCW OUTLET VALVES		59	1009	IWP-IN6C	NA NA		LC	C	3
HCV-438A		2	P			RCP & CEDM SEAL COOLING OUTLET VALVE		CONT	994	8WBB37NIII		N	NA	NA	2
HCV-438B		7	P	AUX/CCW			AC-CC	13	992		NA	SR	*0*	*0*	0
HCV-438B			P	AUX/CCW			AC-CC			9WN3N6C	NA	SR	*0*	*0*	0
- Control of Control										6WCC0NIV	NA	SR	*0*	*0*	0
And the second second	HCV-438D	,	P			RCP & CEDM SEAL COOLING OUTLET VALVE	AC-CC	13	992	12WN3N6C	NA	SR	*0*	*0*	0
HCV-442	HCV-442	7	P			RC-3A SEAL COOLER OUTLET VALVE		CONT	0995	OIWBB10NII	NA	S	0	0	6
HCV-443	HCV-443	7	P			RC-3B SEAL COOLER OUTLET VALVE	AC-CC	CONT	0995	00WBB15NII	NA	S	0	0	0
HCV-444	HCV-244	7	P	AUX/CCW			AC-CC	CONT	0995	OWCCONIV	NA	S	0	0	0
HCV-445	HCV-445	7	P	AUXICCW	33368	RC-3D 'EAL COOLER OUTLET VALVE	AC-CC	CONT	0995	15WBBONIV	NA.	S	0	0	0

вох	ASSE1.		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
HCV-446	HCV-446	7	P	AUXICCW	35368	RCP 3A LUBE OIL COOLER CCW OUTLET VALVE	AC-CC	CONT	997	1WBB-10NTI	NA	N	NA	NA	2
HCV-447	HCV-447	7	P	AUX/CCW	35368	RCP 3B LUBE OIL COOLER CCW OUTLET VALVE	AC-CC	CONT	997	OWBB-24NTI	NA	N	NA	NA	2
HCV-448	HCV-448	7	P	AUX/CCW	35368	RCP 3C LUBE OIL COOLER CCW OUTLET VALVE	AC-CC	CONT	997	0WYCC-0NTV	NA	N	NA	NA	2
HCV-449	HCV-449	7	P	AUX/CCW	35368	RCP 3D LUBE OIL COOLER CCW OUTLET VALVE	AC-CC	CONT	997	16WBB-0NTV	NA	N	NA	NA	2
HCV-467B	HCV-467B	7	P	AUX/CCW	41741	DETECTOR WELL COOLING COILS CCW OUTLET VALVE	AC-CC	13	993	5W1-8N5A	NA	N	NA	NA	2
HCV-474	HCV-474	7	P	AUX/CCW	55196	LPSI/HPSI/CONT SPRAY HEAT EXCHANGERS CCW OUTLET VALVE	AC-CC	6	992	9WT-2N'6E	NA	N	NA	NA	2
HCV-478	HCV-478	7	P	AUX/CCW	55196	STORAGE POOL HEAT EXCHANGER CCW OUTLET VALVE	AC-CC	5	993	6W'R-8N'5A	NA	N	NA	NA	2
HCV-482A	HCV-482A	7	P	AUX/CCW	55196	RAW WATER CROSSTIE; INLET VALVE	AC-RW	4	1006	2E'E-28N'5B	NA	N	C	C	3
	HCV-483A	7	P			RAW WATER CROSSTIE; INLET VALVE	AC-RW	4	1005	3E'E-12N'5B	NA	N	C	C	- 3
HCV-484	HCV-484	7	P			SHUTDOWN COOLING HEAT EXCHANGERS CCW OUTLET VALVE	AC-CC	4	993	2E'E-22N'5B	NA	N	NA	NA.	2
HCV-485	HCV-485	7	P			SHUTDOWN COOLING HEAT EXCHANGERS CCW OUTLET VALVE	AC-CC	4	993	2EE-16N'5B	NA	N	NA	NA	2
	HCV-489A	7	A			AC-1A CCW HX INLET VALVE	AC-CC	4	995	10WD11N5B	NA	SR	*0*	*O*	0
	HCV-489A-20	0	A	AUXAA		3 WAY SOLENOID VALVE FOR HCV-489A	AC-CC		0995	10WD11N5B	AI-41A-12	S	NA	NA	0
	HCV-489A-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-489A	AC-CC		0995	10WD11N5B	NA	S	NA	N.A.	0
	HCV-489B	7	A			AC-1A CCW HX OUTLET VALVE	AC-CC		992	10WD1N6D	NA	SR	*O*	*O*	0
	HCV-489B-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-489B	AC-CC		0992	10WD1N6D	Al-41A-12	S	NA	NA	0
	HCV-489B-O	7	A	AUX/IA		CONTROL VALVE OPERATOR FOR HCV-489B	AC-CC		0992	10WD1N6D	NA	S	NA	NA	0
	HCV-490A	,	A	AUX/CCW		AC-1B CCW HX INLET VALVE	AC-CC		1005	9WD13N5B	NA	SR	*()*	*0.	0
	HCV-490A-20	0	A	AUXAA		3 WAY SOLENOID VALVE FOR HCV-490A	AC-CC		1001	9WD13N5B	AI-41B-12	S	NA	NA	0
	HCV-490A-O		A	ALCY YOLA		CONTROL VALVE OPERATOR FOR HCV-490A	AC-CC		1004	09WD13N5B	NA	S	NA	NA	0
	HCV-490B HCV-490B-20	7	A	AUX/CCW AUX/IA		AC-18 CCW HX OUTLET VALVE 3 WAY SOLENGID VALVE FOR HCV-490B	AC-CC		1003	10WD2N6D	NA	SR	*0*	*0*	0
	HCV-490B-O	7	A	AUXJA		CONTROL VALVE OPERATOR FOR HCV-490B	AC-CC		1003	10WD2N6D	AI-41B-12	S	NA	NA	0
	HCV-491A	7	A			AC-1C CCW HX INLET VALVE	AC-CC		1003	10WD2N6D	NA	2	NA	NA	0
	HCV-491A-20	0	A	AUXAA		3 WAY SOLENOID VALVE FOR HCV-491A	AC-CC	18	992 0992	06ED06N5B	NA	SR	*0°	*0*	0
	HCV-491A-O	7	A	AUXIA		CONTROL VALVE OPERATOR FOR HCV-49! A	AC-CC	18	0992	06ED06N5B	AI-41A-12 NA	S	NA	NA	0
	HCV-491B	7	A	AUX/CCW		AC-IC CCW HX OUTLET VALVE		18	992	08ED:10S5B	NA		NA	NA	0
	HCV-491B-20	0	A	AUX/IA		3 WAY SOLENOID VALVE FOR HCV-491B		18	0992	08ED10S5B	AI-41A-12	SR	*0*	*0*	0
	HCV-491B-O	7	A	AUXAA		CONTROL VALVE OPERATOR FOR HCV-491B	AC-CC	18	0992	08ED10S5B	NA NA	5	NA.	NA	0
	HCV-492A	7	A			AC-1D CCW HX INLET VALVE		18	992	08ED17S6D	NA	SR	NA *O*	NA *O*	0
HCV-492A	HCV-492A-20	0	A	AUX/IA	15413	3 WAY SOLENOID VALVE FOR HCV-492A		18	0992	08ED17S6D	AI-41B-12	S	NA	NA	0
HCV-492A	HCV-492A-O	7	A	AUXIA	15413	CONTROL VALVE OPERATOR FOR HCV-492A	AC-CC		0992	08ED17S6D	NA	5	NA	NA	0
HCV-492B	HCV-492B	7	A	AUX/CCW	55195	AC-ID CCW HX OUTLET VALVE		18	992	08ED01N6D	NA	SR	*0*	*0*	0
HCV-492B	HCV-492B-20	0	A	AUX/IA	15413	3 WAY SOLENOID VALVE FOR HCV-492B	AC-CC		0992	21WC33N5B	AI-41B-12	S	NA	NA	0
HCV-492B	HCV-492B-O	7	A	AUX/IA	15413	CONTROL VALVE OPERATOR FOR HCV-492B		18	0992	21WC33N5B	NA	8	NA	NA	0
HCV-497	E/P-497	0	A	AUX/EE	15418	HCV-497 E/P CONVERTER		4	0993	12W'D-10N'6D		\$	NA	NA	0
HCV-497	HCV-497	7	A	AUX/CCW	55196	CCW BYPASS LINE ISOL VALVE	AC-CC		0991	2EE-8S7A	NA	8	0	0	0
HCV-497	HCV-497-O	7	A	AUX/CCW	15418	CCW BYPASS LINE ISOL VALVE OPERATOR		4	991	2EE-8S7A	NA	S	NA	NA	0
HCV-921	HCV-921	7	P	DHR	10458	RADIATION MONITOR RE-064, ISOL VALVE	MS	81	1043	13W'D-0N'4A	NA	SR	*C*	*C*	0
HCV-922	HCV-922	7	P	DHR	10458	RADIATION MONITOR RE-064, ISOL VALVE	MS	81	1043	13W'D-0N'4A	NA	SR	*C*	*C*	0
LCV-101-1	E/P-101-1	0	A	INV	1267	LCV-101-1 E/P CONVERTER	CH	CONT	0997	9WEE-17NHI	NA	S	NA	NA	0
LCV-101-1	LCV-101-1	7	A	ENV	55158	PRESSURIZER RC-4 LEVEL; LETDOWN CONTROL VALVE	CH	CONT	0997	9WEE-17NIII	NA	S	0	C	0
LCV-101-1	LCV-101-1-0	7	A	INV	1267	PRESSURIZER RC-4 LEVEL; LETDOWN CONTROL VALVE OPERAT	CH	CONT	997	9WEE-17NIII	NA	S	NA	NA	0
LCV-101-2	E/P-101-2	0	A	INV	1267	LCV-101-2 E/P CONVERTER	CH	CONT	0997	10WEE-20NIII	NA	S	NA	NA	0
LCV-101-2	LCV-101-2	7	A	INV	55158	PRESSURIZER RC-4 LEVEL; LETDOWN CON: ROL VALVE	CH	CONT	0997	10WEE-20NH	NA	S	0	C	0

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
LCV-101-2	LCV-101-2-0	7	A	ENV	1267	PRESSURIZER RC-4 LEVEL; LETDOWN CONTROL VALVE OPERAT	CH	CONT	997	10WEE-20NIII	NA	s	NA	NA	0
LCV-1173	LCV-1173	7	P	DHR	55540		FW-AF		1039	7E'D-0N'3A	NA	N	C	C	6
LCV-1189	LCV-1189	7	P	DHR	55540	DEMIN MAKE-UP WATER VALVE	FW-AF	81	1039	7ETD-05'4A	NA	N	C	c	6
LCV-218-2	LCV-218-2	7	A	INV,R,P	10476	VCT OUTLET VALVE	CH	29	1010	43WT24N7A	NA	SR	*0*	*C*	0
LCV-218-3	LCV-218-3	7	A	INV,R,P	10476	SIRWT CVCS CROSS CONNECT VALVE	CH	7	992	45WT02N7B	NA	SR	*C*	*0*	0
LCV-218-3	LCV-218-3-M	0	A	INV	15296	CONTROL VALVE OPERATOR MOTOR FOR LCV-218-3	CH	7	0994	44WT02N7B	MCC-3A2-E03	S	NA	NA	0
LCV-218-3	LCV-218-3-0	0	A	INV	15296	CONTROL VALVE OPERATOR FOR LCV-218-3	CH	7	0992	45WT02N7B	NA.	S	NA	NA	0
LO-56	LO-56	21	P	DHR	56510	FW-10 LUBE OIL COOLER COOLING SUPPLIED BY AUX	LO	19	0990	5WC5N3A	NA	S	NA	NA	0
LT-101X	LT-101X	18	A	ENV	10227	PRESSURIZER LEVEL TRANSMITTER	RC	CONT	1013	15WCC3NI	NA	S	NA	NA	6
LT-101Y	LT-101Y	18	A	INV	16956	PRESSURIZER LEVEL TRANSMITTER	RC	CONT	1013	18WDD14NII	NA	S	NA	NA	0
LT-1183	LT-1183	18	A	DHR	21348	EFWST LEVEL	FW-AF	81	1039	18WC13N3A	NA	S	NA.	NA	0
LT-1188	LT-1188	18	A	DHR	21349	EFWST LEVEL	FW-AF	81	1038	18S3A-7ED	NA	S	NA	NA	0
MCC-3A1	MCC-3A1	1	A	AUX/EE	42194	MOTOR CONTROL CENTER	EE-5	57	1013	02WD14N4A	1B3A-2	S	NA	NA	0
MCC-3A1	MCC-3A1-A2R	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO XFMR EE-4S	EE-5	57	1013	MCC-3A1	MCC-3A1	S	NA	NA	0
MCC-3A1	MCC-3A1-B01	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO HTRS-BNK1-GRP1	EE-5	57	16	MCC-3A1	MCC-3A1	S	NA.	NA	0
MCC-3A1	MCC-3A1-C01	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO HTRS-BNK1-GRP2	EE-5	57	10:	MCC-3A1	MCC-3A1	S	NA	NA	0
MCC-3A1	MCC-3A1-D01	1	A	AUX/EE		480VAC FEEDER BREAKER TO HTRS-BNK1-GRP3	EE-5	57	101	MCC-3A1	MCC-3A1	S	NA	NA	0
MCC-3A1	MCC-3A1-E04	.1	A	AUX/EE		480VAC FEEDER BREAKER TO HCV-1385-M	FW	57	1013	MCC-3A1	MCC-3A1	S	NA	NA	0
MCC-3A2	MCC-3A2	1	A	AUX/EE		MOTOR CONTROL CENTER	EE-5	4	0989	01WQ05S7A	1B3A-3	S	NA	NA	0
MCC-3A2	MCC-3A2-E03	1	A	AUX/EE	12242	480VAC FEEDER BREAKER TO LCV-218-3	CH	4	0989	MCC-3A2	MCC-3A2	S	NA	NA	0
MCC-3A2	MCC-3A2-E04	1	A	AUXÆE	12242	480VAC FEEDER BREAKER TO LCV-218-2	CH	4	0989	MCC-3A2	MCC-3A2	S	NA	NA .	0
MCC-3B1	MCC-3B1	1	A	AUX/EE	12243	MOTOR CONTROL CENTER	EE-5	57	1013	02WD05S4A	1B3B-2	S	NA	NA	0
	MCC-3B1-C2L	1	A	AUX/EE		480VAC FEEDER BREAKER TO BATT CHG EE-8C		57	1013	MCC-3B1	MCC-3B1	S	NA	NA	0
	MCC-3B1-C2R	1	A	AUX/EE	12243	480VAC FEEDER BREAKER TO VA-46A	VA-CR		1013	MCC-3B1	MCC-3B1	S	NA	NA	0
	MCC-3B1-E3R	1	A	AUX/EE		480VAC FEEDER BREAKER TO XFMR EE-4N	EE-5	57	1013	MCC-3B1	MCC-3B1	S	NA	NA	0
	MCC-3B1-G2R	1	A	AUX/EE		480VAC EMER FEEDER BREAKER TO ATA-D2	EE-5	57	1013	MCC-3B1	MCC-3B1	S	NA	NA.	0
	MCC-3B1-G4R	1	A	AUXÆE		480VAC NORM FEEDER BREAKER TO ATA-DI	EE-5	57	1013	MCC-3B1	MCC-3B1	S	NA	NA	0
	MCC-3B1-H02	1	A	AUX/EE		480VAC FEEDER BREAKER TO HCV-150-M	RC	57	1013	MCC-3B1	MCC-3B1	S	NA	NA	0
MCC-3B3		1	A	AUXÆE		MOTOR CONTROL CENTER	EE-5	INTK	1007	10W/CC-3N'10		S	NA	NA	0
	MCC-3B3-A04	1	A	AUX/EE		BREAKER TO STRAINER MOTOR AC-12A-M MOTOR CONTROL CENTER	EE-5	INTK	1007	MCC-3B3	MCC-4B1	S	NA	NA	0
MCC-3C1			A	AUX/EE			EE-5	57	1013	02WD10N3A	1B3C-1	S	NA	NA	0
	MCC-3CI-A01	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO PCV-102-1 480VAC FEEDER BREAKER TO BATT CHG EE-8E	RC	57	1013	MCC-3C1	MCC-3C1	S	NA	NA	0
	MCC-3C1-A2L			AUX/EE		480VAC FEEDER BREAKER TO XFMR EE-4Q	EE-8A	57	1013	MCC-3C1	MCC-3C1	S	NA	NA	0
	MCC-3C1-A4R MCC-3C2	i	A	AUX/EE		MOTOR CONTROL CENTER	EE-5	57	1013	MCC-3C1	MCC-3C1	S	NA	NA	0
	MCC-3C2-C01	1	A	AUX/EE		480VAC FEEDER BREAKER TO HCV-265	EE-5 CH	26 26	1007	OWQ8N7A	1B3C-2	S	NA	NA	0
	MCC-4A1	1	A	AUX/EE		MOTOR CONTROL CENTER	EE-5	57		MCC-3C2	MCC-3C2	S	NA	NA	0
	MCC-4A1-A03	1	A	AUX/EE	12243	480VAC EMER FEEDER BREAKER TO ATA-DI	EE-5	57	1013	10WD14N4A	1B4A-2	2	NA .	NA	0
	MCC-4A1-A05	1	A	AUX/EE	12243	480VAC FEEDER BREAKER TO XFMR FE-4T	EE-5	57	1013	MCC-4A1	MCC-4A1	S	NA	NA	0
				AUX/EE	12243	480VAC FEEDER BREAKER TO BATT CHG EE-8D	The same of the sa	57		MCC-4A1	MCC-4A1	S	NA	NA	0
	MCC-4A1-C02	1	A	AUX/EE		480VAC FEEDER BREAKER TO VA-46B		57	1013	MCC-4A1	MCC-4A1	S	NA	NA	0
	MCC-4A1-C03	1	A	AUX/EE		480VAC FEEDER BREAKER TO HCV-1041C	MS VA-CR	57	1013	MCC-4A1	MCC-4A1	S	NA.	NA	0
	MCC-4A1-C04	1	A	AUX/EE		480VAC FEEDER BREAKER TO HCV-1041C	RC RC	57	1013	MCC-4A1	MCC-4A1	S	NA	NA	0
	MCC-4A1-C05	1	A			480VAC NORM FEEDER BREAKER TO ATA-D2	EE-5	57	1013	MCC-4A1	MCC-4A1	S	NA.	NA	0
	MCC-4A1-E05		A	AUX/EE		MOTOR CONTROL CENTER	EE-5	26	1013	MCC-4A1	MCC-4A1 1B4A-3	S	NA NA	NA	0
MCC-4A2	MCC-4AZ		14	ACARE	127.34	MOTOR CONTROL CENTER	EE-3	20	1007	05EQ08N7A	104/4-3	S	NA	NA	0

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAI	REQD	NOTES
MCC-4A2	MCC-4A2-E02	1	A	AUXÆE	12242	480VAC FEEDER BREAKER TO HCV-258	CH	26	1007	MCC-4A2	MCC-4A2	S	NA	NA	0
MCC-4B1	MCC-4B1	1	A	AUX/EE	12234	MOTOR CONTROL CENTER	EE-5	57	1013	10WD-0N4A	1B4B-2	S	NA	NA	0
MCC-4B1	MCC-4B1-A02	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO PCV-102-2	RC	57	1013	MCC-4B1	MCC-4B1	S	NA	NA.	0
MCC-4B1	MCC-4B1-A4R	- 1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO XFMR EE-4P	EE-5	57	1013	MCC-4B1	MCC-4B1	S	NA	NA	0
MCC-4CI	MCC-4CI	1	A	AUX/EE	42194	MOTOR CONTROL CENTER	EE-5	57	1013	10WD10N3A	1B4C-2	S	NA	NA	0
MCC-4C1	MCC-4C1-A01	- 1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO PRSZR BANK 4 HTRS	EE-5	57	1013	MCC-4CI	MCC-4C1	S	NA	NA	0
MCC-4C1	MCC-4C1-B01	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO PRSZR BANK 4 HTRS	EE-5	57	1013	MCC-4CI	MCC-4C1	S	NA	NA	0
MCC-4C1	MCC-4C1-C01	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO PRSZR BANK 4 HTRS	EE-5	57	1013	MCC-4C1	MCC-4CI	S	NA	NA	0
MCC-4C1	MCC-4C1-E03	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO HCV-1384	FW-AF	57	1013	MCC-4CI	MCC-4CI	S	NA	NA	0
MCC-4C1	MCC-4C1-E04	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO HCV-1386	FW	57	1013	MCC-4C1	MCC-4CI	S	NA	NA	0
MCC-4C1	MCC-4C1-F03	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO HCV-1042C	MS	57	1013	MCC-4C1	MCC-4C1	5	NA	NA	0
MCC-4C1	MCC-4C1-F05	1	A	AUX/EE	42194	480VAC FEEDER BREAKER TO XFMR EE-4R	EE-5	57	1013	MCC-4CI	MCC-4CI	S	NA	NA	0
MCC-4C4	MCC-4C4	- 1	A	AUX/EE	12234	MOTOR CONTROL CENTER	EE-5	ENTK	1007	0W'CC-3N'101	1B4C-7	S	NA	NA	0
MCC-4C4	MCC-4C4-D07	1	Α	AUX/EE	43125	BREAKER TO STRAINER MOTOR AC-12B-M	EE-5	INTK	1007	MCC-4C4	MCC-4B1	S	NA	NA	0
MS-275	MS-275	7	A	DHR	10458	RC-2A SELF ACTUATED RELIEF VALVE	MS	81	1039	05EG-684A	NA	S	C	0	0
MS-276	MS-276	7	A	DHR	10458	RC-2A SELF ACTUATED RELIEF VALVE	MS	81	1039	7EG-06S4A	NA	S	c	0	0
MS-277	MS-277	7	A	DHR	10458	RC-2A SELF ACTUATED RELIEF VALVE	MS	81	1040	10WD-0N4A	NA	S	C	0	. 0
MS-278	MS-278	7	A	DHR	10458	RC-2A SELF ACTUATED RELIEF VALVE	MS	81	1040	10WD-2N4A	NA	S	C	0	0
MS-279	MS-279	7	A	DHR	10458	RC-2B SELF ACTUATED RELIEF VALVE	MS	81	1038	19WD5N4A	NA	S	c	0	0
MS-280	MS-280	7	A	DHR	10458	RC-2B SELF ACTUATED RELIEF VALVE	MS	81	1038	18WD05N04A	NA	S	C	0	0
MS-281	MS-281	7	A	DHR	10458	RC-2B SELF ACTUATED RELIEF VALVE	MS	81	1038	10EG-12N4A	NA	S	C	0	9
MS-282	MS-282	7	A	DHR	10458	RC-2B SELF ACTUATED RELIEF VALVE	MS	81	1038	10EG-14N4A	NA	S	C	0	0
MS-291	MS-291	7	A	DHR	10458	RC-2A PORV	MS	81	1039	19WD24N3A	NA	SR	*C*	*C*	0
MS-291	MS-291-20	0	A	DHR	43437	RC-2A PORV SOLENOID	MS	81	1042	0WG-0N4A	AI-41A-14	S	NA	NA	0
MS-291	MS-291-O	7	A	DHR	43437	RC-2A PORV OPERATOR	MS	81	1039	19WD-24N3A	NA	S	NA	NA	0
MS-292	MS-292	7	A	DHR	10458	RC-2B PORV	MS	81	1038	10EG-10N4A	NA	SR	*C*	*C*	0
MS-292	MS-292-20	0	A	DHR	43437	RC-2B PORV SOLENOID	MS	81	1043	0ED-0N'4A	AI-41B-14	S	NA	NA	0
MS-292	MS-292-O	7	A	DHE	43437	RC-2B PORV OPERATOR	MS	81	1043	0W'E-12N'4A	NA	S	NA	NA	0
NE-001	NE-001	6	A	RC	24276	WIDE RANGE LOGARITHMIC NUCLEAR DETECTOR	AI-NI	CONT	1000	18WBB0NIH	NA	S	NA	NA	0
NE-004	NE-004	0	A	RC	24276	WIDE RANGE LOGARITHMIC NUCLEAR DETECTOR	AI-NI	CONT	1000	18WBB0NIII	NA	S	NA	NA	0
NM-064	NM-004	20	A	RC	24276	INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AI-NI	57	1018	24WD17N4A	INV-D-01	S	NA	NA	0
NT-001	NT-001	20	A	RC	24276	INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AI-NI	20	1005	8WG28N4A	NA	S	NA	NA	0
NT-004	NT-004	20	A	RC	24276	INSTRUMENT MODULE FOR NUETRON FLUX MONITORING	AI-NI	57	1018	3WF16N4A	INV-D-01	S	NA	NA	0
PCV-102-1	PCV-102-1	7	A	PC	42167	PORV	RC	CONT	1047	21WCC09NH	NA	SR	*C*	*C*	0
PCV-102-2	PCV-102-2	7	A	PC	42107	PORV	RC	CONT	1047	4WDD09NII	NA	SR	*C*	*C*	0
PCV-103-1	PCV-103-1	7	P	PC	42107	PRESSURIZER RC-4; SPRAY CONTROL VALVE	RC	CONT	1047	13WDD-13NH	NA	N	C	C	4
PCV-103-2	PCV-103-2	7	P	PC	42107	PRESSURIZER RC-4; SPRAY CONTROL VALVE	RC	CONT	1047	12WDD-12NH	NA	N	C	C	4
PCV-2839	PCV-2839	7	P	AUX/CCW	55195	N2 VENT HDR PRESSURE CONTROL VALVE	AC-CC	69	1038	6WL-I4N7A	NA	N	C	C	6
PCV-840A-	1 PCV-840A-1	0	A	AUX/CCW	56299	VA-46A DISCHARGE DAMPER	VA-CR	72	1047	8W31-15N7A	NA	S	A	0	11
PCV-840A-	1 PCV-840A-1-O	0	A	AUX/CCW	21846	VA-46A DISCHARGE DAMPER OPERATOR	VA-CR	72	1047	8W'J1-15N'7A	NA	S	NA	NA	0
PCV-840A-	2 PCV-840A-2	9	A	AUX/CCW	56299	VA-46A DISCHARGE DAMPER	VA-CR	72	1047	8W'31-11N'7A	NA	S	A	0	11
PCV-840A-	2 PCV-840A-2-O	9	A	AUX/CCW	21846	VA-46A DISCHARGE DAMPER OPERATOR	VA-CR	72	1047	8W31-11N7A	NA	S	NA	NA	0
PCV-840B	PCV-840B	0	A	AUX/CCW	56299	VA-46A RECIRC AIR INTAKE DAMPER	VA-CR	72	1050	12WJ1-12N7A	NA	SR	A	0	- 11
PCV-840B	PCV-840B-20	0	A	AUX/CCW	21846	VA-46A RECIRC AIR INTAKE DAMPER SOLENOID	VA-CR	72	1050	12W'31-12N'7A	NA	S	NA	NA	0
PCV-840B	PCV-840B-O	9	Α	AUX/CCW	21846	VA-46A RECIRC AIR INTAKE DAMPER OPERATOR	VA-CR	72	1050	12W31-12N7A	NA	S	NA	NA	0

вох	ASSEL		SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
PCV-841A	-1 PCV-841A-1	0	A	AUX/CCW	56299	VA-46B DISCHARGE DAMPER	VA-CR	72	1047	8W71-14N6D	NA	S	A	0	11
PCV-841A	-1 PCV-841A-1-O	0	A	AUX/CCW	21846	VA-46B DISCHARGE DAMPER OPERATOR	VA-CR		1047	8WJ1-14N6D		S	NA	NA	0
PCV-841A	2 PCV-841A-2	0	A	AUX/CCW	56299	VA-46B DISCHARGE DAMPER	VA-CR		1047	8W'J1-10N'6D		5	A	0	11
PCV-841A	2 PCV-841A-2-O	0	A	AUX/CCW	21846	VA-46B DISCHARGE DAMPER OPERATOR	VA-CR		1047	8WJ1-10N6D		S	NA	NA	0
	PCV-841B	0	A			VA-46B RECIRC AIR INTAKE DAMPER	VA-CR		1050	12WJ1-14N6D		SR	A	0	
200000000000000000000000000000000000000	PCV-841B-20	0	A			VA-46B RECIRC AR INTAKE DAMPER SOLENOID	VA-CR		1050	12W'J1-14N'6D		S	NA	NA	0
	PCV-841B-O	0	A			VA-46B RECIRC AIR INTAKE DAMPER OPERATOR		72	1050	12W31-14N6D		5	NA	NA	0
PI-2854-1	P1-2854-1	18	A	AUX/RW		RAW WATER PUMP DISCHARGE PRESSURE	RW	ENTK	998	15WBB12N10		S	NA	NA	0
PI-2855-1		18	A	AUX/RW		RAW WATER PUMP DISCHARGE PRESSURE	RW	INTK	998	16WBB10N10		5	NA	NA	0
PI-2856-1	PI-2856-1	18	Α	AUX/RW		RAW WATER PUMP DISCHARGE PRESSURE	RW	INTK	998	16WBB11N10		S	NA	NA.	0
P1-2857-1	PI-2857-1	18	A	AUX/RW		RAW WATER PUMP DISCHARGE PRESSURE	RW	INTK	998	17WBB8N104		8	NA	N/A	0
PT-105	PT-105	18	A	DHR		PRESSURIZER PRESSURE TRANSMITTER	RC	CONT	1003	14WCC2NI	PO-105	S	NA	NA	0
PT-115	PT-115	18	A	DHR	2111	PRESSURIZER PRESSURE TRANSMITTER	RC	CONT	1013	15WCC3NI	PQ-115	5			0
PT-499	PT-499	18	A	AUX/RW		COMPONENT COOLING PUMP DISCHARGE PRESSURE	RW	69	1013	IWN-6NBA	PO-499	5	NA NA	NA NA	0
RC-141	RC-141	7	A	PC	42107		RC	CONT	1049		NA NA	5	C	C	0
RC-142	RC-142	7	A	PC	42107		RC	CONT	1049		NA NA		c	c	0
	O RC-3A-COOLER	21	P			RC-3A LUBE OIL COOLER	AC-CC	CONT	1013	18WCC-21NTI		N	NA	NA	70
	O RC-3B-COOLER	21	P			RC-3B LUBE OIL COOLER	AC-CC	CONT	1013	8WBB-21N1I		N	NA NA	NA	12
	O RC-3C-COOLER	21	P		A SA CONTRACTOR	RC-3C LUBE OIL COOLER	AC-CC	CONT	1013	24WCC-20NH		N		100000	12
	O RC-3D-COOLER	21	P	AUX/CCW		RC-3D LUBE Off. COOLER	AC-CC	CONT	1013	9WBB-22NTII		N	NA	NA.	12
RC-4	RC-4-HTRS-1	21	A	PC		PZR BACKUP HEATER BANK 1. GROUP 1	EE-5	CONT	1020			-	NA	NA	
RC-4	RC-4-HTRS-10	21	A	PC		PZR BACKUP HEATER BANK 4, GROUP 1	EE-5	CONT	1020	6WDD-19NTI	A STATE OF THE STA	SR	OFF	ON	0
RC-4	RC-4-HTRS-11	21	A	PC		PZR BACKUP HEATER BANK 4, GROUP 2	EE-5	CONT	1020	6WDD-19NTI		SR	*OFF*	*ON*	0
RC-4	RC-4-HTRS-12	21	A	PC		PZR BACKUP HEATER BANK 4, GROUP 3	EE-5	CONT	1020	6WDD-19NTI		SR	*OFF*	*ON*	0
RC-4	RC-4-HTRS-2	21	A	PC		PZR BACKUP HEATER BANK 1, GROUP 2	EE-5	CONT	1020	6WDD-19NTI		SR	*OFF*	*ON*	0
RC-4	RC-4-HTRS-3	21	A	PC		PZR BACKUP HEATER BANK 1, GROUP 3	EE-5	CONT	1020	6WDD-19NTI		SR	OFF	ON	0
SA-3A-1	SA-3A-1	21	P			DG-1 STARTING AIR RECIEVER		63	2000000		MCC-3A1-D01	SR	OFF	ON	0
SA-3A-1	SA-3A-2	21	P			DG-2 STARTING AIR RECIEVER	SA SA	64	1025		NA	S	NA	NA	0
		21	P			DG-1 STARTING AIR RECIEVER				03EF-02S2B	NA	S	NA	NA	0
SA-3B-1	SA-3B-1	21	P			DG-2 STARTING AIR RECIEVER	SA	63	1029		NA	S	NA	NA	0
SA-3B-2	SA-3B-2 SA-4A-1	21	P			DG-1 STARTING AIR RECIEVER	SA	64	1032	03EF-02S2B	NA	S	NA	NA	0
5:3A-1			P			DG-2 STARTING AIR RECIEVER	SA	63	1029	OWF16N1A	NA	S	NA.	NA	0
SA-4A-2	SA-4A-2	21	P			DG-1 STARTING AIR RECIEVER	SA	64	1027	04WF-02S2B	NA	S	NA	NA	0
SA-4B-1	SA-4B-1	21	P		Lance Street	DG-2 STARTING AIR RECIEVER	SA	63	1025	0WF16N1A	NA	S	NA	NA	0
SA-4B-2	SA-4B-2	21					SA	64	1032		NA	S	NA	NA	0
SI-IA	SI-1A	10	P			LPSI SPRAY PUMP SEAL COOLER	SI-LP	21	0972	45WT-6N'6E	NA	S	NA	NA	0
SI-1B	SI-IB	10	P			LPSI SPRAY PUMP SEAL COOLER	SI-LP	22	0972		MA	S	NA	NA	0
SI-2A	SI-2A	10	P	19.000.000.000.000.000		CONT SPRAY PUMP SEAL COOLER	SI-HP	21	0972		NA	2	NA	NA	0
SI-2B	SI-2B	10	P			CONT SPRAY PUMP SEAL COOLER	SI-HP	22	0972	0ET-6S8A	NA	S	NA	NA	0
SI-2C	SI-2C	10	P			CONT SPRAY PUMP SEAL COOLER	SI-HP	21	0972	10EU-65'8A	NA	S	NA	NA	0
SI-323	SI-323	7	P			HPSI HEADER CHECK VALVE	SI-HP	13	992		NA	N	NA	NA	7
SI-3A	SI-3A	10	P			HPSI SPRAY PUMP SEAL COOLER	SI-CS	21	0972		NA	S	NA	NA	0
S1-3B	SI-3B	10	P			HPSI SPRAY PUMP SEAL COOLER	SI-CS	22	0972	IWT-IN6C	NA	S	NA	NA	0
SI-3C	SI-3C	10	P			HPSI SPRAY PUMP SEAL COOLER	SI-CS	22	0972	IWT-3N'6E	NA	S	NA -	NA	0
SI-4A	SI-4A	10	P	N. S.		S.I. TANK LEAKAGE COOLER	SI-LF	CONT	1020	15WDD-20NH		8	NA	NA	- 0
SI-4B	SI-4B	10	P	AUX/CCW	41741	S.I. TANK LEAKAGE COOLER	SI-LP	CONT	1014	6WBB-30NH	NA	S	NA	NA	0

BOX	ASSEL	1000	SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAI	REQD	NOTES	
SI-4C	SI-4C	10	P	AUX/CCW	41741	S.I. TANK LEAKAGE COOLER	SI-LP	CONT	1013	14WEE-12NIII	NA	S	NA	NA	0	
SI-4D	SI-4D	10	P	AUX/CCW	41741	S.I. TANK LEAKAGE COOLER	SI-LP	CONT	1014	8WBB-12NHI	NA	S	NA	NA	6	
S1-5	SI-5	21	P	ENV	10479	SIRWT	SI-LP	2	0989	SW AUX	NA	S	NA	NA	0	
SL-3	SL-3	21	P	AUX/CCW	41741	SAMPLE HEAT EXCHANGER	SL-PRI	60	1010	34WP-6NSD	NA	S	NA	NA	0	
SL-51	SL-51	10	P	AUX/CCW	41741	PRIMARY SAMPLE COOLER	SL-SEC	60	1007	23WP-0N'6E	NA	S	NA	NA	0	
SL-8A	SL-8A	21	P	AUXACCW	41741	SAMPLE HEAT EXCHANGER	SL-PRI	60	1011	19WP-14N'5D	NA	S	NA	NA	0	
SL-8B	SL-8B	21	P	AUX/CCW	41741	SAMPLE HEAT EXCHANGER	SL-PRI	60	1012	19WP-12N3D	NA	S	NA	NA	0	
TIB-3A	T1B-3A	4	A	AUX/EE	12234	4160/480 VOLT TRANSFORMER	EE-4B	56	1011	7WC0N6D	1A3	S	NA	NA	0	
TIB-3B	T1B-3B	4	A	AUX/EE	12234	4160/480 VOLT TRANSFORMER	EE-4B	56	1011	7WC0N5B	1A3	S	NA.	NA	0	
T1B-3C	T1B-3C	4	A	AUXÆE	12234	4160/480 VOLT TRANSFORMER	EE-4B	56	1011	7WC17N4A	1A3	S	NA	NA	0	
TIB-4A	TIB-4A	4	A	AUX/EE	12234	4160/480 VOLT TRANSFORMER	EE-4A	56	1011	20WC30N5B	1A4	S	NA	NA	0	
T18-4B	T1B-4B	4	A	AUXÆE	12234	4160/480 VOLT TRANSFORMER	EE-4B	56	1011	20WC0N5B	IA4	S	NA	NA	0	
TIB-4C	T1B-4C	4	A	AUX/EE	12234	4160/480 VOLT TRANSFORMER	EE	56	1011	20WC14N4A	1A4	S	NA	NA	0	
TIC-3A	1C3A-1	1	A	AUX/EE	12246	MPP-1C3A-1 120/280 V POWER PANEL	EE	56	1011	TIC-3A	IC3A	S	NA	NA	0	
TCV-202	TCV-202	7	A	INV	55158	LETDOWN TEMPERATURE CONTROL VALVE	CH	CONT	998	8WCC-24NIII	NA	SR	*0*	*C*	0	
TCV-202	TCV-202-20	0	A	INV	1279	LETDOWN TEMPERATURE CONTROL VALVE SOLENOID	CH	CONT	1064	9WCC-24NIII	AI-41A-12	S	NA	NA	0	
TCV-202	TCV-202-O	7	A	INV	1279	LETDOWN TEMPERATURE CONTROL VALVE OPERATOR	CH	CONT	998	8WCC-24NIH	NA	S	NA	NA	0	
TCV-2897A	TCV-2897A	7	P	AUX/CCW	55196	LETDOWN HEAT EXCHANGER CCW OUTLET VALVE	AC-CC	12	992	6E'Q-11S'6D	NA	N	NA	NA	2	
TCV-2897B	TCV-2897B	7	P	AUX/CCW	55196	LETDOWN HEAT EXCHANGER CCW OUTLET VALVE	AC-CC	12	991	3E'Q-95'6D	NA	N	NA	NA	2	
TCV-893	TCV-893	7	A	AUX/CCW	10440	CONTROL ROOM HVAC ISOLATION	AC-CC	72	1037	8WJ112N7A	NA	SR	*/)*	*0*	0	
TCV-894	TCV-894	7	A	AUX/CCW	10440	CONTROL ROOM HVAC ISOLATION	AC-CC	72	1037	8WJI11N6D	NA	SR	*0*	*0*	0	
VA-14A	VA-14A	10	P			DETECTOR WELL COOLING COILS	AC-CC	CONT	0994	19WAA-33NII	NA	S	NA	NA	0	
VA-14B	VA-14B	10	P			DETECTOR WELL COOLING COILS	AC-CC	CONT	0994	15WAA-14NIII	NA	S	NA	NA	0	
VA-15A	HCV-724A	0	A			CNTMT CLG & FILTER UNIT VA-15A; INLET DAMPER	VA-CON	CONT	1063	18WAA-13NII	NA	SR	C	0	0	
VA-15A	HCV-724A-20	0	A			CNTMT CLG & FILTER UNIT VA-15A; INLET DAMPER SOLENOID	VA-CON	CONT	1063	18WAA-13N3	NA	S	NA	NA	0	
VA-I5A	HCV-724A-0	0	A			CNTMT CLG & FILTER UNIT VA-15A; INLET DAMPER OPERATOR	VA-CON	CONT	1063	18WAA-CNH	NA	S	NA	NA	0	
VA-15A	VA-I5A	10	P			CONT AIR COOL/FILTER UNIT A HOUSING	VA-CON		1060		NA	S	NA	NA	0	
VA-15A	VA-IA	10	P			CONTAINMENT HVAC COOLING & FILTER UNIT HX	VA-CON		1960	24WAA30NII	NA	S	NA	NA	0	
VA-I5B	HCV-725A	0	A			CNTMT CLG & FILTER UNIT VA-15B; INLET DAMPER	VA-CON		1063	18WAA-29! III		SR	C	0	0	
VA-15B	HCV-725A-20	0	A	AUX/CCW		The same and the s	VA-CON		1063	18WAA-29 NH	NA	S	NA	NA	0	
VA-15B	HCV-725A-O	0	A			CNTMT CLG & FILTER UNIT VA-15B; INLET DAMPER OPERATOR	VA-CON		1063	18WAA-2 NIII		S	NA	NA	0	
VA-15B	VA-15B	10	P			CONT AIR COOL/FILTER UNIT B HOUSING	VA-CON		1060	OWBB-24N		S	NA	NA	0	
VA-15B	VA-IB	10	P			CONTAINMENT HVAC COOLING & FILTER UNIT HX	VA-CON		1060	24WAA12NIII	NA	S	NA	NA	0	
VA-16A	VA-8A	10				CONTAINMENT AIR COOLING COILS	AC-CC		1045	18W'AA-33N'II		S	NA	NA	0	
VA-16B	VA-8B	10	P			CONTAINMENT AIR COOLING COILS	AC-CC		1045	18W'AA-9N'III	NA	S	NA	NA	0	
VA-3A	VA-3A	9	A			CONTAINMENT HVAC FILTER AND COOLING UNIT FAN	VA-CON	The state of the s	1060	18WAA39NII	NA	S	NA	NA	0	
VA-3A	VA-3A-M	9	A			CONTAINMENT HVAC FAN MOTOR	VA-CON		1060	18WAA39NII	1B3A-7	S	NA	NA	6	
VA-3B	VA-3B	9	A			CONTAINMENT HVAC FILTER AND COOLING UNIT FAN	VA-CON		1060	18WAA3NIII	NA	S	NA	NA	0	
VA-3B	VA-3B-M	9	A			CONTAINMENT HVAC FAN MOTOR	VA-CON		1060	18WAA3NIII	1B4C-8	S	NA	NA	0	
VA-46A	VA-46A	10	P	AUX/CCW			VA-CR		1036	8W31-12N7A	MCC-3B1-C2R	SR	*ON*	*ON*	0	
VA-46B	VA-46B	10	P	AUX/CCW	O Vericin		VA-CR	w 15	1036	8WJ1-11N6D	MCC-4A1-C03	SR	*ON*	*ON*	0	
WD-28A	WD-28A	21	P	AUX/CCW				16	0993	7EL-22S'9	NA	S	NA	NA.	0	
WD-28B	WD-28B	21	P			GAS COMPRESSOR SEAL WATER HX		16	0993	7EL-10S9	NA	S	NA	NA.	0	
WD-930	WD-930	7	P	AUX/CCW				30	1008		NA	N	c	C	14	
WD-931	WD-931	7	P	AUX/CCW	10474	CONCENTRATE COOLER WD-21 CCW OUTLET VALVE	M-D-L	30	1009	26WT-9S'8A	NA	N	C	C	14	

вох	ASSEL	and a supplied to the supplied	SQUG FUNCT	SSPATH	FILE	NAME	SYSTEM	ROOM	ELEV	LOCATION	POWER	EVAL	NORMAL	REQD	NOTES
WD-934	WD-934	7	P	AUX/CCW	49127	VAPOR CONDENSER WD-70 CCW OUTLET VALVE	WD-L	30	1018	23WT-16N7A	NA	N	c	c	14
WD-935	WD-935	7	P	AUX/CCW	49127	VAPOR CONDENSER WD-70 CCW OUTLET VALVE	WD-L	30	1009	23WT-16N7A	NA	N	С	C	14
WD-941	WD-941	7	P	AUX/CCW	49127	DISTILLATE COOLER WD-71 CCW OUTLET VALVE	WD-L	30	1012	21WT-16N7A	NA	N	C	C	14
WD-942	WD-942	7	P	AUX/CCW	49127	DISTILLATE COOLER WD-71 CCW INLET VALVE	WD-L	30	1009	19WT-15N7A	NA	N	C	C	14
YCV-1045	YCV-1045	7	A	DHR	10458	AFW PUMP FW-10 STEAM SUPPLY	MS	19	996	06WC01N3A	NA	SR	*C*	*0*	0
YCV-1045	YCV-1045-20	0	A	AUX/IA	15775	3 WAY SOLENOID VALVE FOR YCV-1045	MS	19	0998	06WC1N3A	Al-41B-04	S	NA	NA	0
YCV-1045	YCV-1045-O	7	A	AUX/IA	15775	CONTROL VALVE OPERATOR FOR YCV-1045	MS	19	0996	06WC01N3A	NA	S	NA	NA	0
YCV-1045A	YCV-1045A	7	A	DHR	10458	RC-2A TO AFW STEAM SUPPLY	MS	81	1044	03WD-2S4A	NA	SR	*C*	*0*	0
YCV-1945A	YCV-1045A-20	0	. A	AUXIA	49211	3 WAY SOLENOID VALVE FOR YCV-1045A	MS	81	1047	03WD02S4A	AI-41B-14	S	NA	NA	0
YCV-1045A	YCV-1045A-O	7	A	AUX/IA	15775	CONTROL VALVE OPERATOR FOR YCV-1045A	MS	81	1044	03WD-2S4A	NA	S	NA	NA	0
YCV-1045B	YCV-1045B	7	A	DHR	10458	RC-2B TO AFW STEAM SUPPLY	MS	81	1042	11EG-17N4A	NA	SR	*C*	*0*	0
YCV-1045B	YCV-1045B-20	0	A	DHR	43339	RC-2B TO AFW STEAM SUPPLY SOLENOID	MS	81	1046	11E'G-17N'4A	AI-41B-14	S	NA	NA	0
YCV-1045B	YCV-1045B-O	7	A	DHR	43389	RC-2B TO AFW STEAM SUPPLY OPERATOR	MS	81	1046	11E'G-17N'4A	NA	S	NA	NA	0
YCV-871A	YCV-871A	0	A	AUX/EDG	56299	DIESEL GENERATOR 2: FRESH AIR DAMPER	VA-EDL	65	1042		NA	SR	C	0	11
Y€V-871A	YCV-871A-20	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; FRESH AIR DAMPER SOLENOID	VA-EDL	65	1042	HWD-9NTA	NA	S	NA	NA	0
YCV-871A	YCV-871A-O	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; FRESH AIR DAMPER OPERATOR	VA-EDL	65	1042	HWD-9N'IA	NA	S	NA	NA	0
YCV-871B	YCV-871B	0	A	AUX/EDG	56299	DIESEL GENERATOR 2; FRESH AIR DAMPER	VA-EDL	63	1042	IIWM-4NIA	NA	SR	C	0	11
YCV-871B	YCV-871B-20	0	A	AUX/EDG	23737	DIESFL GENERATOR 2; FRESH AIR DAMPER SOLENOID	VA-EDL	65	1042	11WM-4N1A	NA	S	NA	NA	0
YCV-871B	YCV-871B-O	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; FRESH AIR DAMPER OPERATOR	VA-EDL	65	1042	HWM-4NIA	NA	S	NA	NA	0
YCV-871C	YCV-871C	0	A	AUX/EDG	56299	DIESEL GENERATOR 2; FRESH AIR DAMPER	VA-EDL	65	1042	11WM-24N1A	NA	SR	c	0	11
YCV-871C	YCV-871C-20	0	A	AUX/EDG	23737	DIESEL GENERATOR 2: FRESH AIR DAMPER SOLENOID	VA-EDL	65	1042	11WM-24N1A	NA	S	NA	NA	0
YCV-871C	YCV-871C-0	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; FRESH AIR DAMPER OPERATOR	VA-EDL	65	1042	11WM-24N1A	NA	S	NA	NA	0
YCV-871D	YCV-871D	0	A	AUX/EDG	56299	DIESEL GENERATOR 2; FRESH AIR DAMPER	VA-EDL	65	1042	11WM-17N'1A	NA	SR	c	0	11
YCV-871D	YCV-871D-20	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; FRESH AIR DAMPER SOLENOID	VA-EDL	65	1042	11WM-17N'1A	NA	S	NA	NA	0
YCV-871D	YCV-87ID-O	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; FRESH AIR DAMPER OPERATOR	VA-EDL	65	1042	HWM-17N'IA	NA	S	NA	NA	0
YCV-871E	YCV-871E	0	A	AUX/EDG	56299	DIESEL GENERATOR 1; RADIATOR EXHAUST DAMPER	VA-EDL	63	1030	19WK-2N1A	NA	SR	c	0	11
YCV-871E	YCV-871E-20	0	A	AUX/EDG	23736	DIESEL GENERATOR 1; RADIATOR EXHAUST DAMPER SOLENOID	VA-EDL	63	1030	19WK-2N1A	NA	S	NA	NA	0
YCV-871E	YCV-87IE-O	0	A	AUX/EDG	23736	DIESEL GENERATOR I; RADIATOR EXHAUST DAMPER OPERATOR	VA-EDL	63	1030	19WK-2N1A	NA	S	NA	NA	0
YCV-871F	YCV-871F	0	A	AUX/EDG	56299	DIESEL GENERATOR 2; RADIATOR EXHAUST DAMPER	VA-EDL	64	1030	19W'K-17N'1A	NA	SR	C	0	11
YCV-871F	YCV-871F-20	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; RADIATOR EXHAUST DAMPER SOLENOID	VA-EDL	64	1030	19WK-17N1A	NA	S	NA	NA	0
YCV-871F	YCV-871F-O	0	A	AUX/EDG	23737	DIESEL GENERATOR 2; RADIATOR EXHAUST DAMPER OPERATOR	VA-EDL	64	1030	19WK-17N1A	NA.	S	NA	NA	0
YCV-871G	YCV-871G	0	A	AUX/EDG	56299	DIESEL GENERATOR 1; FRESH AIR DAMPER	VA-EDL	MISL	1024	10WF-11STA	NA	SR	C	0	11
YCV-871G	YCV-871G-20	0	A	AUX/EDG	23736	DIESEL GENERATOR 1; FRESH AIR DAMPER SOLENOID	VA-EDL	MISL	1024	10WF-11STA	NA	S	NA	NA	0
YCV-871G	YCV-871G-O	0	A	AUX/EDG	23736	DIESEL GENERATOR 1; FRESH AIR DAMPER OPERATOR	VA-EDL	MISL	1024	16WF-11S'1A	NA	S	NA	NA	0
YCV-871H	YCV-871H	0	A	AUX/EDC	56299	DIESEL GENERATOR 1; FRESH AIR DAMPER	VA-EDL	MISL	1024	10W'K-11S'1A		SR	C	0	11
YCV-871H	YCV-871H-20	0	A	AUX/EDG	23736	DIESEL GENERATOR 1; FRESH AIR DAMPER SOLENOID	VA-EDL	MISL	1024	10W'K-11S'1A		S	NA	NA	0
YCV-871H	YCV-871H-O	0	A	AUX/EDG	23736	DIESEL GENERATOR 1; FRESH AIR DAMPER OPERATOR	VA-EDL	MISL	1024	10W'K-11S'1A		S	NA	NA	0
												100			

SAFE SHUTDOWN EQUIPMENT LIST (SSEL) REPORT

ATTACHMENT C

Plant Reviews

From:

J.K. Mathew

x6652 (FC 2-4 Admn.) 94 12 12 194

To:

G. E. Guliani

x6025 (FC 3-1 Trg.)

J. F. Friedrichsen x6827 (FC 1-2 Plant)

J. D. Kecy

x6794 (FC 1-1 Plant)

x7280

Per (K. C. Holthaus

x7275) (FC 2-4 Admn.)

R.F. Mehaffey x6505 (FC 2-4 Admn.)

Subject: Review of USI A-46 Safe Shutdown Path and SSEL R/5

The purpose of this transmittal is to request the documentation of the acceptance of the Seismic Safe Shutdown Path, Safe shutdown Equipment List and Associated Relay List Report, Revision- 5, generated by Vectra (Impell). Please forward this report to the next review team member after you have placed your signature.

The Generic Implementation Procedure (GIP) was generated by Seismic Qualification Utilities Group (SQUG), and has been endorsed by the NRC in their SER as an acceptable method of resolving the Unresolved Safety Issue (USI) A-46. OPPD in their response to the Generic Letter (GL) 87-02, Supplement 1, committed to use the GIP methodology to resolve USI A-46 at Fort Calhoun Station. The GIP requires that the plant operations department review the SSEL to confirm its compatibility with the plant normal and emergency operating procedures. Section 3.7 and 3.8 of the GIP which delineate this requirement is attached for your information.

Over the last two years, during the development of the SSEL, as part of the SQUG technical review team you have participated in the reviews which meets the intent of the GIP plant operations department reviews. All the comments provided have been incorporated in the various revisions to the SSEL. The various review cycles including the last one with your initials are documented in Attachment G.

Please document your review and concurrence to the incorporation of all your comments on the SSEL by placing your signature and date next your name. This review page will be added to the Attachment-G

G. E. Guliani	(OPERATIONS TRG.) 19/5/94	
J. F. Friedrich	sen (SYSTEMS ENGG.) Cup habite 110.27.94	_
J. D. Kecy	(PLANT OPERATIONS) JONE 18 Day 1-3-93)
W. O. Weber K. C. Holthaus	(NUCLEAR ENGG.) 11/12/94	
R.F. Mehaffey	(E/I&C ENGG.) GFM faffey 19/22/94	
J. K. Mathew	(MECHANICAL ENGG.) Q.K. Mathew /9/12/94	

 Print out the Screening and Verification Data Sheets (SVDSs). (The SVDSs are described in Section 4.)

Use of a computer data base management program is optional.

3.7 OPERATIONS DEPARTMENT REVIEW OF SSEL®

The Safe Shutdown Equipment List (SSEL) generated for resolution of USI A-46 should be reviewed for compatibility with the plant procedures for shutting down the plant. The purpose of this section is to provide suggested methods for performing this review by the plant's Operations Department. Note that the individuals performing this review should be familiar with the General Criteria and Governing Assumptions contained in Section 3.2 and the Scope of Equipment for the USI A-46 program contained in Section 3.3.

A review of the SSEL by a representative of the plant's Operations
Department is required to confirm compatibility with the plant normal and emergency operating procedures. The intent of the Operations Department review of the SSEL is to verify that a trained operator, following existing plant procedures, will eventually be directed to the use of the safe shutdown equipment and instruments even though the operator may have first tried to shut down using equipment not included in the USI A-46 SSEL. It is not the intent that the operator be directed to use the USI A-46 shutdown path as his first priority or to change the symptom-based emergency operating procedures. Rather, this review is to ensure that the shutdown path selected for USI A-46 and included in the SSEL is a legitimate safe shutdown path consistent with plant procedures and operator training.

One method of reviewing the SSEL against the plant operating procedures is to do a "desk top" review of the applicable procedures. Using this method, the normal and emergency operating procedures are reviewed by an

experienced Operations Department representative to check whether all equipment called out in the operating procedures for the selected path are included on the SSEL. This review should also verify that there are no paths from which an operator could not recover with the selected set of SSEL equipment. For those steps in the procedure which rely upon operator training (i.e., steps which only give an overview summary of the actions to be taken; detailed steps are omitted), the reviewer should mentally walk through the actions an operator would take and verify that all the equipment needed is on the SSEL.

Another method of reviewing the SSEL against the plant operating procedures is to use a simulator. A loss of offsite power could then be simulated. An operator could go through this simulated transient and be observed and/or interviewed to determine whether any problems are encountered.

Another method of reviewing the SSEL against the plant operating procedures is to perform a limited control room walkdown in which an operator talks and walks through a plant shutdown following a postulated loss of offsite power. This could include not only the actions taken by the operator in the control room, but also operator actions taken in the plant where the equipment is operated from a local control panel or station.

The Operations Department of the plant should decide which of these approaches or combination of approaches would best accomplish the review of the SSEL against the plant's operating procedures.

3.8 DOCUMENTATION

A summary of the systems selected for shutting down the plant following a Safe Shutdown Earthquake (SSE) and the basis for selecting those systems should be documented. This summary can be similar to the generic summaries contained in Appendix A for PWRs or BWRs.

The scope of the equipment included on the Safe Shutdown Equipment List (SSEL) for each of the systems used to shut down the plant should be identified; this can be done using marked-up schematic drawings (P&IDs, electrical one-lines, etc.).

The Safe Shutdown Equipment Lists (SSELs) should be retained along with any special explanations for including or excluding certain items of equipment.

The method used by the plant's Operations Department to verify the compatibility of the SSELs with the plant operating procedures should be documented.

Section 9 summarizes the type of documentation which should be generated and that which should be included in the report submitted to the NRC.



VECTRA

September 6, 1994

Omaha Public Power District Fort Calhoun Station P.O. Box 399 Fort Calhoun, NE 68023

ATTENTION: Bernie Van Sant

Supervisor - DEN Mechanical

Resolution of Greg Guliani's A-46 comment SUBJECT:

Gentlemen:

This is to document Greg Guliani's acceptance of VECTRA's response to his comments regarding the A-46 SSEL and associated report. The comment and response are as follows:

Comment: HCV-1041A and 1042A are basically air operated check valves. How are we going to

"Manually" close them? Remove air from the Actuator? This action is not

proceduralized in EOP's or AOP's.

Response: It is intended that an operator would use what ever means is needed to close the valve.

It is expected that the easiest way to accomplish that would be to remove the air from

the Actuator.

Greg was contacted to discuss the need to revise either EOP's or AOP's as a result of this comment. Greg felt that it was not necessary to revise any procedures. This is based on the fact that the operators are instructed to take whatever actions are needed to close the MSIV's if required. The requirement to fail air to the MSIV's as described in the A-46 Safe Shutdown report is consistent with the existing EOP's and AOP's.

Should you have any questions regarding this issue, please give me a call at 402-330-9846.

Very truly yours,

Tim A. Leibel Manager

Midlands Branch Office

Sam Pande Joe Mathew Greg Guliani



August 9, 1994

Omaha Public Power District Fort Calhoun Station P.O. Box 399 Fort Calhoun, NE 68023

ATTENTION: Bernie Van Sant

Supervisor - DEN Mechanical

Response to comments received from OPPD on final review of SSEL for A-46. SUBJECT:

Gentlemen:

This is in response to comments received from Sam Pande which were generated as a result of the review OPPD conducted on Revision 4 of the SSEL and the A-46 report. Each comment is summarized along with VECTRA's response.

Gerg Guliani

Comment: HCV-1041A and 1042A are basically air operated check valves. How are we going to

"Manually" close them? Remove air from the Actuator? This action is not

proceduralized in EOP's or AOP's.

Response: It is intended that an operator would use what ever means is needed to close the valve.

It is expected that the easiest way to accomplish that would be to remove the air from

the Actuator.

Comment: What about Toxic Gas Isolation? Do we need to show that we can isolate the Control

Room from outside air?

Response: For response to A-46, it is not necessary to consider a Toxic Gas release coincident

with a seismic event. This would be considered outside the scope of A-46.

Jens Friedrichsen

Comment: What is the Basis for HVAC as a safe shutdown flow path?

Response: HVAC systems were considered only as needed for maintaining safe shutdown

equipment operability. A room heatup calculation has been prepared which shows that for the 72 hour duration, excessive temperatures should not be a concern and therefore the HVAC systems (with the exception of Control Room and Containment cooling)

have been removed from the SSEL.

Joe Mathew

Comment: Include the Raw Water Strainers and their MCCs on the SSEL.

Response: The Strainers and MCCs have been added to the SSEL.

Comment: WD-21 should be deleted from the SSEL and the corresponding isolation valves added

as WD-21 is abandoned equipment.

Response: WD-21 has been deleted from the SSEL. The additional isolation valves required to

provide system isolation as a result of this deletion have been identified on the

applicable P&ID's. The additional valves are normally closed, manual isolation valves

and therefore have not been added to the SSEL.

Comment: Add discussion on not considering single failures on the MSIVs.

Response: A discussion regarding the single failure of the MSIVs has been included in Section

4.1.4 of the SSEL which states; "The Main Steam Isolation Valves HCV-1041A and 1042A, do not provide two valves in series for system boundary isolation. These valves are normally open fail closed and are required to be closed in order to satisfy their safe shutdown function. Should these valves fail to close it will be necessary to take operator action to manually close the valve. Manual action is an acceptable means to meet the intent of the single failure criteria of the GIP. In particular, section 3.2.6 of the GIP specifically states the use of operator action to meet the single failure criteria."

Should you have any questions regarding these responses, please give me a call at 402-330-9846.

Very truly yours,

Tim A. Leibel Manager

Midlands Branch Office

c: Sam Pande Joe Mathew

Greg Greeks and

SUBJECT: REVIEW OF SSEL REVISION 4 BY OPPD'S SQUG REVIEW TEAM

ABBI HAS REVISED THE SEISMIC SAFE SHUTDOWN PATH, SAFE SHUTDOWN EQUIPMENT LIST AND ASSOCIATED RELAY REPORT. VECTRA, FORMERLY ABBI HAVE STARTED PREPARING AN ENGINEERING ANALYSIS FOR THE ROOM HEAT-UP CALCULATIONS WHICH IS EXPECTED TO REMOVE THE HVAC SYSTEM COMPONENTS ADDED IN REVISION-4 OF THE SSEL FROM THIS REPORT. PLEASE COMPLETE A REVIEW OF THIS REPORT AND FORWARD TO THE NEXT MEMBER OF THE SQUG REVIEW TEAM. A CONSOLIDATED SET OF COMMENTS WILL BE FORWARDED TO VECTRA FOR INCORPORATION TO THIS REPORT. THIS IS THE ONLY COPY AND THE ORIGINAL. THEREFORE, PLEASE DO NOT MARK ON THIS REPORT. IF NECESSARY MAKE A COPY OF THE RELAVENT PORTIONS FOR MARK-UPS. AT THE END OF THE REVIEW PLEASE MAKE A COPY OF THE TRANSMITTAL SHEET WITH YOUR INITIAL AND YOUR COMMENTS TO J.K. MATHEW TO KEEP TRACK OF THIS REVIEW.

PLEASE DO NOT HOLD THE REPORT IN YOUR POSESSION FOR MORE THAN ONE WEEK TO FACILITATE SCHEDULING FINAL COMMENT TRANSMITTAL TO VECTRA. YOUR COOPERATION IS APPRECIATED. PLEASE CALL ME WITH ANY QUESTIONS AT EXTENSION 6652.

RO	UTE						SIGN/DATE RECEIVED	SIGN/DATE FORWARDED	
1.	R.F.	MEHAFFEY	FC	2-4	ADMN	(6505)	10000	Ams/a/94	
2.	ĸ.c.	HOLTHAUS	FC	2-4	ADMN	(7275)	4/25/94	1494 loow forker	
3.	G.E.	GULIANI	FC	3-1	TRAINING	(6025)	3/24	\$ 4/4/94 #	
4.	J.F.	FRIEDRICHSEN	V FC	2 1-2	2 PLANT	(6827)	4-8-94 3	4-15-89 F *	
5,	J.D.	KECY	FC	1-1	PLANT	(6794)	4-21-84	4259440K	
6,	J.K.	MATHEW	FC	2-4	ADMIT	(6652)	LAST 4		

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January 4, 1994

Omaha Public Power District Fort Calhoun Station P.O. Box 399 Fort Calhoun, NE 68023

ATTENTION:

Mr. Jack Skiles

Manager - Design Engineering Production Engineering Division

SUBJECT:

OMAHA PUBLIC POWER DISTRICT/FORT CALHOUN STATION

TRANSMITTAL: USI A-46 REVISION 4

Gentlemen:

Please find attached Revision 4 to the USI A-46 Project Report. Revision 4 of the report was made to incorporate comments which were made during a review of the SSEL by Mr. Steve Reichle of ABB Impell, at the Fort Calhoun Station during the week of November 22.

The review was conducted by Mr. Steve Reichle of our Boston office. Mr. Reichle was supported by Mr. Tim Leibel and Mr. Kevin Billesbach during the review. The review was intended to heighten OPPD's level of confidence with the SSEL and to ensure no major deficiencies existed in the report or the methodologies used to prepare the report.

Mr. Reichle was selected to conduct the review because of his extensive experience in the preparation of SSEL's at other utilities. To date Mr. Reichle has prepared SSEL's for nine nuclear plants. Throughout the review Mr. Reichle made comparisons between these SSEL's and the SSEL prepared for Fort Calhoun. In general, Mr. Reichle found no major flaws or omissions from the SSEL, the specific items identified during the review and the resolutions to these items can be found in Attachment 1 to this letter. At the close of the review, a meeting was held to discuss issues identified during the review. The meeting attendees are also noted on Attachment 1.

The review involved the following:

Review of highlighted P&ID's
Review of Safe Shutdown Report
Review of SSEL
Review of methodology used to prepare the Associated Relay List
Review of redundancy
Review of required manual actions

ABB Impell Corporation



Mr. Reichle did point out that the types of issues being identified (i.e., additional components) have been very common in the other projects he has been involved with and that the SSEL's have evolved throughout the project. Mr. Reichle also stated that it is very helpful to have one of the system engineers who was involved in the preparation of the SSEL to be involved in the walkdowns. This allows for a review of the SSEL against the plant equipment and works to ensure that all components and systems auxiliaries have been identified.

Also enclosed with this letter is a floppy disk containing an Excel 4.0 copy of Revision 4 to the USI A-46 Project Report.

Should you have any questions, please contact Mr. Kevin Billesbach or myself at (402) 330-9846. We look forward to providing continued support to the District in the future.

Very truly yours,

Tim A. Leibel

Manager

Midlands Branch Office

TAL/KRB/krb

e: Mr. R. Phelps w/o

Mr. B Van Sant w/o

Bulsolal For

Mr. S Pande w/o

Mr. J Mathew

Mr. B Mehaffey w/o



ATTACHMENT 1

Meeting Attendees

Steve Reichle	ABB Impell	Bernie Van Sant	OPPD
Tim Leibel	ABB Impell	Sam Pande	OPPD
Kevin Billesbach	ABB Impell	Joe Mathew	OPPD
		Bob Mehaffey	OPPD *

The following items were identified and discussed during the review:

Accumulators for air operated valves

During the seismic event, Instrument Air is assumed to fail, therefore air accumulators are required for AOV's which are required to stroke during the 72 hours. Not all AOV's had an associated accumulators identified in the SSEL. A review of each AOV was conducted to ensure that any AOV which is required to operate during the event has an accumulator. Accumulators required for operation of SSEL components are identified in the SSEL.

Equipment Positions

Some discrepancies were identified with the equipment positions provided in the SSEL. The normal and required positions did not always agree with the active/passive classification given to a component. It was felt that the use of the information in these columns could lead to incorrect screening of relays during the essentiallity review. OPPD provided the positions used by SAIC to perform the relay essentiallity review. The new positions were incorporated into the SSEL.

Valves which are locked closed

For valves which are locked closed, it is necessary to identify how the valve is locked closed (mechanically or electrically). If a valve is electrically locked closed with a key lock switch then it is necessary to review the schematics to ensure relay chatter will not lead to spurious operation.

HVAC

The report contains no solid basis for the selection of HVAC systems. A meeting was held between OPPD Design Engineering Nuclear and ABB Impell to determine which HVAC systems should be included in the SSEL. The following rooms have been selected to support the operation of safe shutdown equipment:

Main Steam Room Switchgear Rooms Battery Rooms Upper and Lower Electrical Penetration Area Compressor Room Charging Pump Room



Valves

A number of valves which are within the system flow path are not identified on the SSEL. However, these valves are discussed in the text of the report and justification for the omission from the SSEL is provided. It was recommended that these valves be added to the SSEL and thus were incorporated.

Other

Provide a reference to the Diesel Generator fuel oil consumption calculation (i.e., EA-FC-92-047) to document that adequate fuel supply exists for the 72 hour period.

Provide a discussion on whether Heat Tracing is required for the selected Safe Shutdown Paths.

^{*} Bob Mehaffey was present during a subsequent teleconference where the above items discussed. The purpose of the teleconference was to discuss the results of the review and agree on resolution to these items.



ATTACHMENT 2

The following is a list of components which will be added to the SSEL as a result of this review:

ASSEL	NAME	EVAL
IAI-IA3-MTS	125 VDC XFER SW	S
1A2-1A4-MTS	125 VDC XFER SW	S S S
1B3A-4A-MTS	125 VDC XFER SW	S
1B3B-4B-MTS	125 VDC XFER SW	S
1B3C-4C-MTS	125 VDC XFER SW	S
1C3A-1	MPP-1C3A-1 120/280 V POWER PANEL	S
E/P-827	VA-17 ELECTRO-PNEUMATIC OPERATOR	SR
FCV-269Y	BLENDING TEE: BORIC ACID INLET VALVE	N
HCV-176	REACTOR HEAD VENT VALVE	N
HCV-177	REACTOR HEAD VENT VALVE	N
HCV-2893	RAW WATER TO CCW ISOLATION VALVE	N
HCV-2894	RAW WATER TO CCW ISOLATION VALVE	N
HCV-2895A	WASTE EVAPORATOR/PRIMARY SAMPLE COOLER CCW OUTLET	N
HCV-2895B	WASTE EVAPORATOR/PRIMARY SAMPLE COOLER CCW INLET	N
HCV-400F	RAW WATER CROSSTIE; OUTLET VALVE	N
HCV-401F	RAW WATER CROSSTIE: OUT ET VALVE	N
HCV-402F	RAW WATER CROSSTIE; OUTLET VALVE	N
HCV-403F		N
HCV-425B	SI TANK LEAKAGE COOLER CCW OUTLET VALVES	N
HCV-446	RCP 3A LUBE OIL COOLER CCW OUTLET VALVE	N
HCV-447	RCP 3B LUBE OIL COOLER CCW OUTLET VALVE	N
HCV-448	RCP 3C LUBE OIL COOLER CCW OUTLET VALVE	N
HCV-449	RCP 3D LUBE OIL COOLER CCW OUTLET VALVE	N
HCV-467B	DETECTOR WELL COOLING COILS CCW OUTLET VALVE	N
HCV-474	LPSI/HPSI/CONT SPRAY HEAT EXCHANGERS CCW OUTLET	N
HCV-478	STORAGE POOL HEAT EXCHANGER CCW OUTLET VALVE	N
HCV-484	SHUTDOWN COOLING HEAT EXCHANGERS CCW OUTLET	N
HCV-485	SHUTDOWN COOLING HEAT EXCHANGERS CCW OUTLET	N
HCV-724A	CNTMT CLG & FILTER UNIT VA-15A: INLET DAMPER	SR
HCV-725A	CNTMT CLG & FILTER UNIT VA-15B; INLET DAMPER	SR
HCV-766C	BOOSTER FAN VA-121 BYPASS DAMPER	N
HCV-806A	CHARGING PUMP SUPPLY DAMPER	SR
HCV-806B	CHARGING PUMP RETURN DAMPER	SR
HCV-807A	CHARGING PUMP SUPPLY DAMPER	SR
HCV-807B	CHARGING PUMP RETURN DAMPER	SR
HCV-824A	VA-18 INLET DAMPER	SR
HCV-824B	VA-18 DISCHARGE DAMPER	SR
HCV-825A	VA-18 INLET DAMPER	SR
HCV-825B	VA-18 DISCHARGE DAMPER	SR
HCV-826A	VA-18 INLET DAMPER	SR
HCV-826B	VA-18 DISCHARGE DAMPER	SR
IA-MS-291	ACCUMULATOR FOR MS-291	S
IA-MS-292	ACCUMULATOR FOR MS-292	S
LO-39	FW-10 AUX OIL PUMP	SR
MCC-3B1-D01	480 VAC FEEDER BREAKER TO VA-45A-M	SR



ATTACHMENT 2 (Continued)

ASSEL	NAME	EVAL
MCC-3B1-D02	480 VAC FEEDER BREAKER TO VA-41-M	SR
MCC-3B1-E2R	480 VAC FEEDER BREAKER TO VA-71A-M	SR
MCC-3B1-E3R	480VAC FEEDER BREAKER TO EE-4N	SR
MCC-3C1-A4R	480VAC FEEDER BREAKER TO EE-4Q	SR
MCC-3C2-A03	480 VAC FEEDER BREAKER TO VA-40A-M	SR
MCC-3C2-B03	480 VAC FEEDER BREAKER TO VA-40A-M 480 VAC FEEDER BREAKER TO VA-40C-M	SR
MCC-3C2-E02	480 VAC FEEDER BREAKER TO VA-35A-M	SR
MCC-4A1-A05	480VAC FEEDER BREAKER TO EE-4T	SR
MCC-4A1-E01	480 VAC FEEDER BREAKER TO VA-45B-M	SR
MCC-4A1-E03	480 VAC FEEDER BREAKER TO VA-71B-M	SR
MCC-4A1-E05	480VAC NORM(ATA-D2) FEEDER BREAKER	SR
MCC-4A2-D01	480 VAC FEEDER BREAKER TO VA-35B-M	SR
MCC-4A2-D03	480 VAC FEEDER BREAKER TO VA-40B-M	SR
MCC-4B1-A4R	480VAC FEEDER BREAKER TO EE-4P	SR
MCC-4C1-F05	480VAC FEEDER BREAKER TO EE-4R	SR
PCV-6680A-1	CONTROL RM FAN VA-63A SUCTION VALVE	N
PCV-6680A-2	CONTROL RM FILTER VA-64A DISCHARGE VALVE	N
PCV-6680B-1	CONTROL RM FAN VA-63B SUCTION VALVE	N
PCV-6680B-2	CONTROL RM FILTER VA-64B DISCHARGE VALVE	N
PCV-6681A	CONTROL RM FILTER VA-64A/B BYPASS VALVE	N
PCV-6681B	CONTROL RM FILTER VA-64A/B BYPASS VALVE	N
PCV-6682	CONTROL RM FILTER VA-64A/B SUCTION HEADER VALVE VA-17 INLET DAMPER VA-17 BYPASS INLET DAMPER VA-46A DISCHARGE DAMPER VA-46A RECIRC AIR INTAKE DAMPER VA-46B DISCHARGE DAMPER VA-46B DISCHARGE DAMPER VA-46B DISCHARGE DAMPER VA-46B RECIRC AIR INTAKE DAMPER VA-46B RECIRC AIR INTAKE DAMPER RCS QSPDS SUBCOOLED MARGIN MONITOR A RCS QSPDS SUBCOOLED MARGIN MONITOR B RC-3A LUBE OIL COOLER	N
PCV-827	VA-17 INLET DAMPER	SR
PCV-827A PCV-840A-1 PCV-840A-2	VA-17 BYPASS INLET DAMPER	SR
PCV-840A-1	VA-46A DISCHARGE DAMPER	SR
PCV-840A-2	VA-46A DISCHARGE DAMPER	SR
PCV-840B	VA-46A RECIRC AIR INTAKE DAMPER	SR
PCV-841A-1	VA-46B DISCHARGE DAMPER	SR
PCV-841A-2	VA-46B DISCHARGE DAMPER	SR
PCV-841B	VA-46B RECIRC AIR INTAKE DAMPER	SR
QSPDS-A	RCS QSPDS SUBCOOLED MARGIN MONITOR A	SR
QSPDS-B	RCS QSPDS SUBCOOLED MARGIN MONITOR B	SR
RC-3A-COOLER RC-3B-COOLER	RC-3A LUBE OIL COOLER	S
RC-3B-COOLER	RC-3B LUBE OIL COOLER	S S S
RC-3C-COOLER	RC-3C LUBE OIL COOLER	S
	RC-3D LUBE OIL COOLER	
RC-4-HTRS-1	PZR BACKUP HEATER GROUP I	SR
RC-4-HTRS-2	PZR BACKUP HEATER GROUP I	SR
RC-4-HTRS-3	PZR BACKUP HEATER GROUP I	SR
SI-323	HPSI HEADER CHECK VALVE	N
TCV-2897A	LETDOWN HEAT EXCHANGER CCW OUTLET VALVE	N
TCV-2897B	LETDOWN HEAT EXCHANGER CCW OUTLET VALVE	N
VA-15A	CONT AIR COOL/FILTER UNIT A HOUSING	S
VA-15B	CONT AIR COOL/FILTER UNIT B HOUSING	S
VA-17	CONTROLLED ACCESS HOUSING	
VA-18	CONTROLLED ACCESS DISCHARGE HOUSING	S
VA-19	NON-RADIOACTIVE AIR SUPPLY HOUSING	S



ATTACHMENT 2 (Continued)

ASSEL	NAME	EVAL
VA-35A	AUX BLD SUPPLY AIR	SR
VA-35B	AUX BLD SUPPLY AIR	SR
VA-40A	AUX BLD EXHAUST AIR	SR
VA-40B	AUX BLD EXHAUST AIR	SR
VA-40C	AUX BLD EXHAUST AIR	SR
VA-41	ROOF EXHAUST FAN	SR
VA-45A	NON-RADIOACTIVE SUPPLY AIR	SR
VA-45B	NON-RADIOACTIVE SUPPLY AIR	SR
VA-71A	BATTERY ROOM #1 EXHAUST FAN	SR
VA-71B	BATTERY ROOM #2 EXHAUST FAN	SR
VA-84A	CONTROL RM TOILET EXHAUST FAN DAMPER	N
VA-84B	CONTROL RM TOILET EXHAUST FAN DAMPER	N
VA-8A	CONTAINMENT AIR COOLING COILS	S
VA-8B	CONTAINMENT AIR COOLING COILS	S
VA-91F	SWITCHGEAR RM "B" SUPPLY DAMPER	SR
VA-91C	SWITCHGEAR RM "B" RETURN DAMPER	SR
VA-91H	SWITCHGEAR RM "A" SUPPLY DAMPER	SR
VA-91J	SWITCHGEAR RM "A" RETURN DAMPER	SR
VA-97A	SWITCHGEAR RM "B" SUPPLY DAMPER	SR
VA-97B	SWITCHGEAR RM "A" SUPPLY DAMPER	SR
VA-97E	BATTERY ROOM #1 SUPPLY DAMPER	SR
VA-97F	BATTERY ROOM #2 SUPPLY DAMPER	SR
YCV-871A	DIESEL GENERATOR 2; FRESH AIR DAMPER	SR
YCV-871B	DIESEL GENERATOR 2: FRESH AIR DAMPER	SR
YCV-871C	DIESEL GENERATOR 2; FRESH AIR DAMPER	SR
YCV-871D	DIESEL GENERATOR 2: FRESH AIR DAMPER	SR
YCV-871E	DIESEL GENERATOR 1; RADIATOR EXHAUST DAMPER	SR
YCV-871F	DIESEL GENERATOR 2; RADIATOR EXHAUST DAMPER	SR
YCV-871G	DIESEL GENERATOR 1; FRESH AIR DAMPER	SR
YCV-871H	DIESEL GENERATOR 1: FRESH AIR DAMPER	SR

ATTACHMENT 3

The following is a list of "BOX" locations which will be added as a result of this review:

BOX	CLASS	ROOM	ELEV	LOCATION
1A1-1A3	3	56	1011	1111/0101114
IA2-IA4	3	56	1011	IIWCI8NIA
AI-109A	20	56	1015	10E'D-10N'3A
AI-146	20	63	1014	0W'C-0N'4A
AI-147	20	64	1014	Al-146
AI-184	20	77	1036	AI-147
A1-187	20	TURB		25W°C-UN'9
AI-208A	20	77	1011	0W'B-3N'8
AJ-208B	20	77	1036	7W'6D-0N'D
AI-4A	20	77	1036	7W'6D-8N'D
Al-4B	20	77	1036	18W'C-12N'6D
HCV-724A	7	CONT	1036	20W'C-12N'6D
HCV-725A	7	CONT	1063	18W'AA-13N'II
HCV-806A	7	7	1063	18'4'AA-29N'III
HCV-806B	7	4	1001	4E T-0S'7B
HCV-807A	2	6	994	38WT-17N'5D
HCV-807B	2	4	997	05"2S"7B
HCV-824A	2		994	45WT-17N'5D
HCV-824B	4	69	1026	26W'P-14N'8A
HCV-825A	7	69	1034	9E'Q-4N'8A
HCV-825B		69	1026	12W'P-14N'8A
HCV-826A	2	69	1034	12W'P-4N'8A
HCV-826B	7	69	1026	5W'P-14N'8A
LO-39	5	69	1034	5W'P-4N'8A
LO-39-MS		19	0991	03W'C-1N'3A
PCV-827	5	19	0991	03W'C-1N'3A
PCV-827A	0	69	1038	1W'Q-19N'8A
PCV-840A-1	7	69	1036	3W'Q-10N'8A
PCV-840A-1	7	72	1047	8W'J1-15N'7A
PCV-840B	7	72	1047	8W'JI-11N'7A
	7	72	1050	12W"J1-12N"7A
PCV-841A-1	7	72	1047	8W'J1-14N'6D
PCV-841A-1	7	72	1047	8W'J1-10N'6D
PCV-841B	7	72	1050	12W"J1-14N'6D
PS-5061	5	19	0991	03W'C-1N'3A
RB-DI	20	63	1007	4E'K-0N'1A
RB-D2	20	64	1007	4E'K-17N'1A
RC-3A	21	CONT	1013	18W'CC-21N'II
RC-3B	21	CONT	1013	8W^BB-21N'II
RC-3C	21	CONT	1013	24W'CC-20N'III
RC-3D	21	CONT	1013	9W"BB-22N"III
TIC-3A		56	1011	TIC-3A
TC-858A	7	63	1011	7W"D-12N"1A
TC-858B	7	64	1011	7W'D-21N'1A
VA-15A	10	CONT	1060	OW BB-24N II
VA-15B	10	CONT	1060	OWBB-24N'III
VA-17	10	69	1025	3W'Q-6N'8A

ATTACHMENT 3 (Continued)

BOX	CLASS	ROOM	ELEV	LOCATION
VA-18	10			
VA-19	10	69	1025	26W'P-14N'8A
VA-35A	9	81	1036	3W'D-85'3A
VA-35B	9	69	1033	8W'Q-0N'8A
VA-40A	9	69	1029	* 8WQ-0N'8A
VA-40B	9	69	1029	9E'Q-8N'8A
VA-40C	9	69	1029	12W'P-8N'8A
VA-41	9	U9	1029	5W'P-8N'8A
VA-45A	9	81	1057	6W'C-0N'3A
VA-45B	9	81	1040	5W'D-3S'3A
VA-71A	8A	81	1044	5'W'D-3S'3A
VA-71B		53	1022	2W'D-4S'9
VA-8A	8A 10	53	1022	2W'D-4S'9
VA-8B	10	CONT	1045	18WAA33NII
VA-91F	7	CONT	:045	18WAA9NIII
VA-9IG	,	56	1028	14W'C-12N'3A
VA-91H	2	56	1032	13W'C-3N'2B
VA-91J	2	56	1029	6W"C-0N"3A
VA-97A		56	1029	6W'C-6N'2B
VA-97B	,	56	1028	14W'C-8N'3A
VA-97E	,	56	1028	6W'C-21N'2B
VA-97F	,	56	1023	4W'C-9N'7A
YCV-871A	/	56	1023	21W'C-9N'7A
YCV-871B	,	65	1042	11W'D-9N'1A
YCV-871C	4	65	1042	11W'M-4N'1A
YCV-871D	,	65	1042	11W'M-24N'1A
YCV-871E		65	1042	11W'M-17N'1A
YCV-871F	7	63	1011	19W'K-2N 1A
YCV-871G		64	1030	19W'K-17N'1A
YCV-871H	7	MISL	1024	10W'F-11S'1A
1C4-0/1H	7	MISL	1024	10W'K-115'1A

The following is a list of unique relays which will be added to the associated relay list as a receive or this review:

RELAY	FILE
183-MES/DIX	23736
183-MES/D2X	23737
62-A/LS	12280
62/1045	21423
62/824	40863
62/825	40863
62/826	40863
62X/1045	21423
63X/LC-101	9513
63X/LIC-101	9513
63X/PIC-103	9503
86AX/OPLS	9806
86AX2/OPLS	12280
86BX/OPLS	9816
86BX2/OPLS	43388
94-23/FD	9828
94-23X/FD	39723
94-26/FD	9828
94-26X/FD	39723
94-27/FD	9828
94-27X/FD 94-28/FD	39723
94-28X/FD	9828
94-29/FD	39723
94-29/FD	9828
94-29X/FD	9828
94-32/FD	39723
94-32X/FD	9828
94-A1/LS	39723
94-A3/LS	12280
94/1	12280
94/2	43399
94/3	43399
94/724A	43399 12287
94/725A	
94/806	12287 41552
94/807	41552
94/824	40863
94/825	40863
94/826	40863
94/VA-40	40863
94/VA-52A	41561
94NA-52B	41561
94/VA35	12269
AI-133A-2CR	10791
	10/91

24. 94 00115 FM

ATTACHMENT 4 (Continued)

RELAY	FILE
AI-133A-41C	10791
AI-133A-94	10791
AI-133A-GFB	10791
AI-133B-2CR	10791
AI-133B-41C	10791
AJ-133B-94	10791
AI-133B-GFB	10791
DI-178-42BPM1	17397
D1-178-42BPM2	17397
D1-178-42FP	17397
DI-18A-103CX	17397
D1-21-103C	17397
DI-51-TDST	17397
D2-178-42BPM1	17397
D2-178-42BPM2	17397
D2-178-42FP	17397
D2-18A-103CX	17397
D2-21-103C	17397
D2-51-TDST	17397
FDX/I	31225
M/LO-39	21423
M/RC-4-HTRS-1	43399
M/RC-4-HTRS-2	43399
M/RC-4-HTRS-3	43399
M/VA-35A	12269
M/VA-35B	12269
M/VA-40A	40863
M/VA-40B	40863
M/VA-40C	40863
M/VA-41	41039
M/VA-45A	41039
M/VA-45B	41039
M/VA-71A	12283
M/VA-71B	12283
Mf/VA-52A	41561
Mf/VA-52B	41561
Mr/VA-52A	41561
Mr/VA-52B	41561
POX-3	39723
POX-4	39723
PS-5061	21423
SR-32	24361
TC-858A	15701
TC-858B	15701
ZONE 5	24361
ZONE 6	24361
ZONE 7	24361
ZONE 8	24361

SQUG SSEL PATH SELECTION MEETING MINUTES 6-23-93

Attendees:

Bill Weber Bernie Van Sant

Bernie Van Sant Sam Pande Joe Mathew Jen Friedrichsen H. A. Hackerott Greg Guliani Jim Kecy Bob Mehaffey

The purpose of this meeting was to discuss alternate success paths for supplying water to refill the EFWST. Identification of alternate success paths was required due to the fact that the Fire water system which is credited for this function does not meet the single failure criteria as required by the GIP. In particular, for a loss of off site power event the system does not meet single failure criteria because the motor driven fire pump is not powered from a diesel backed bus. Therefore the loss of the diesel driven pump during a LOOP event would result in a complete loss of this function. The following alternatives were discussed as options.

- 1) Use the motor driven fire pump powered from a diesel backed bus. This can be accomplished by a plant modification by powering through a spare breaker/transfer switch.
- 2) Modify AOP-30 to provide guidance on powering the motor driven pump using temporary cables tied to a diesel backed bus. This operator action can be used as a means of meeting the single failure criteria.
- 3) Qualify the plant for cold shutdown rather than maintaining it in a hot shutdown condition for 72 hours. This would eliminate the need for the EFWST for 72 hours.
- 4) Use a dedicated pump like the pump being considered for external flooding for the alternative for the diesel driven fire pump.
- 5) Modify an existing qualified system to allow it to provide make-up water to the EFWST (ie. Raw Water System).
- 6) Based on AOP-30, qualify one of the alternative methods identified to supply water to this tank (ie. Demineralized Water)
- 7) Qualify FW-54 and the CST. This option will require very expensive modifications based on the walk down results.
- 8) Use the screen wash pump cross tie to the fire water header to supply water to the fire water system. The screen wash pumps are powered by a diesel backed bus.

The above options were discussed and as a result of these discussions it was determined that the two most attractive options are 5 and 8. This is based on cost and ease of implementation. These two options were discussed in more detail and it was decided that option 5 was the optimum alternative. Selection of option 5 was based on the fact that this option would have minimal impact on Operations and operating procedures. Additionally the modification required to implement this option is minimal (addition of a spool piece with isolation valve to the existing raw water header in room 81). It should be noted that

all of the above options would result in some type of modification. It was determined that operations as well as engineering and construction costs associated with option 5 are the least of the above options. In addition, implementation of option 5 could provide benefits with respect to the power uprate project and will provide additional operational flexibility.

As a result of this meeting it was determined that either options 5 or 8 would provide an acceptable success path for the refilling of the EFWST with option 5 being selected as the optimum. Therefore the inclusion of the fire water system in the SSEL to support the refill of the EFWST is not necessary and option 5 will be included in the SSEL.

Meeting Minutes No. 3

DATE:

January 22, 1993

LOCATION:

OPPD Fort Calhoun Station

Ft. Calhoun, NE

ATTENDEES:

OPPD

ABB Impell

J. Mathew G. Guliani J. Friedrichsen D. Bannister T. Leibel M. Donahue

B. Mehaffey

B. Weber

C. Kilbride

DISCUSSION:

Comments on Revision A of ABB Impell Report 0139-00045.004-02, Preferred Safe Shutdown Path for Fort Calhoun, and major topics discussed during the meeting are summarized below.

GENERAL:

If a Main Steam Relief Valve sticks open and causes substantial cooldown of the Reactor Coolant System (RCS), boration will be required. 150 ppm is necessary for boration/reactivity control. Reactor Coolant Pump (RCP) bleedoff is rated at 1 gpm/pump (4 gpm total). Cooldown inventory must be established. The plant may want to cooldown to about 300° F.

For the final deliverable, procedures that require operator action should be identified.

Specific sections of the UFSAR and DBDs which are referenced should be identified.

Section 3.1.5:

This item addresses only the Safe Shutdown Path (SSP) components, the assumption does not apply to other components in the plant.

Section 4.1.1:

System Path

The group concurs that Boric Acid Storage Tanks (BAST) are the source for boration.

A bottom end temperature must be established for the scenario.

Letdown most likely will have to be established whether the analysis assumes hot shutdown (4% margin) or cooldown until the point where long term cooling can be cut in. The bounding condition needs to be determined and then the need for letdown evaluated.

Meeting Minutes No. 3

BAST limits for volume must be checked in the Technical Specifications.

Valve 218-3 should be checked for use during charging (it may have a handwheel for manual actuation). It would be easier than Valve 218-2.

Instrumentation

Operators will really need to know rod position during the scenario. Knowing rod position will help operators decide if boration should be started immediately. If so, plant procedures will need to be reworded to more strongly convey the need for boration. The seismic qualification of the instruments and power supplies should be checked.

Two BAST do not contain sufficient borated inventory under minimum Tech Spec conditions to support a RCS cooldown. The wording in the UFSAR needs to be verified.

Boundaries

The wording "redundant path" in the first paragraph should be removed. The pressure rating of the check valve (SI-323) and the header in which it is located needs to be verified to assure that it can withstand full charging pressure should HCV-308 open upon receipt of a Safety Injection Actuation Signal (SIAS).

An explanation of why LCV-218-2 needs to be closed in order to accommodate gravity feed from the Volume Control Tank (VCT) should be included.

Operator Action

Charging flow cannot be throttled. The positive displacement pumps can be cycled to adjust charging flow. The wording should be revised to reflect this.

Auxiliary Systems Component Cooling Water (CCW) is needed for lube oil cooling of the charging pumps, but packing cooling may not be required since it is supplied by the Demineralized Water System. There are separate power supplies for the charging pumps and the packing cooling pump. These need to be verified for inclusion into the A-46 Safe Shutdown Equipment List (SSEL).

Section 4.1.2:

System Path

Verify if backup heaters can be used. They would be preferred for use in pressure control. Operators would prefer not to use proportional heaters.

Meeting Minutes No. 3

Verify if an accumulator exists on HCV-240. This may be an outlier.

If HCV-308 is open and a SIAS signal is received, the loop injection valves will need to be closed.

Section 4.1.3:

System Path

If the RCS must be cooled down, then the Safety Injection Refueling Water Tank (SIRWT) will be required as an inventory source.

Instrumentation

Investigate using Reactor Vessel Water Level System (RVWLS) for instrumentation because it is already qualified and should be available. Pressurizer level indication will still required to monitor coverage of the pressurizer heaters.

Operator Action

HC-247 and HC-248 should read HCV-247 and HCV-248.

Operator action will be required to cycle the charging pumps. Throttling of charging flow is not possible.

The last sentence about the operator manually throttling CH-194 should be deleted.

Section 4.1.4:

System Path

The word "only" should be added to describe the preferred source of supply water for the auxiliary feedwater pump suction.

Slashes rather than commas should be use to designate pairs of valves: valve 1107A/B, not 1107A,B.

Valve LCV-1109 should be checked for a handwheel. The consequences of it failing close needs to be established.

If RCS must cooldown significantly, valve HCV-1040 must be added to the SSEL. Seismic qualification of the piping in which it is located must be verified.

Instrumentation

Additional instrumentation necessary is the core exit thermocouples. Also, the Subcooled Margin Monitor, part of the Qualified Safety Parameter Display System (QSPDS) may already be qualified. If so, it should be included, especially if two-phase flow is expected in the RCS.

Meeting Minutes No. 3

Operator Action

Ensure that valves YCV-1045A/b are open, YCV-1045 only because no throttling can be done. Check the DC power supply for the lube oil pump. There is a procedure to handle the lube oil pump. Rule of the box may apply anyway, but the power supply needs to be verified.

Auxiliary Systems Delete the CCW and RW systems.

Section 4.2.1:

Only one CCW pump is required for normal operations - same as Raw Water.

Remove the Control Element Drive Mechanisms (CEDM) from the cooling requirements.

The wording should reflect that CCW may not be required for some systems, but would provide an extra degree of support. For instance, RCP seal leakage would be limited by taking credit for CCW.

CCW pump discharge pressure should be cited as required instrumentation.

May need to consider leakage from one RCP if the CCW discharge header valve fails closed on RCP seal cooling.

Section 4.2.2:

Raw water (RW) pump discharge pressure should be cited as required instrumentation.

Section 4.2.4:

Not all containment fans will be required. Only one fan need to be considered in the scenario.

Section 4.2.5:

The wording on the sequencing of loads onto the emergency diesel generators should be clarified.

Figures 1-4:

The figures should be revised to consistently indicate the instrumentation required for the safe shutdown functions.

Meeting Minutes No. 2

DATE:

December 16, 1992

LOCATION:

OPPD Fort Calhoun Station

Ft. Calhoun, NE

ATTENDEES:

OPPD

ABB Impell

J. Mathew G. Guliani

J. Friedrichsen

T. Leibel M. Donahue

B. Mehaffey

J. Kecy B. Weber

C. Kilbride

DISCUSSION:

Decisions and major topics discussed during the meeting are recorded below. Action items are summarized on the project Action Item List (attached).

PREFERRED SSP:

The background on the current A-46 Resolution effort was briefly reviewed to bring all meeting attendees up to date. The objective of the meeting was to provide a forum for discussing the previously developed preferred safe shutdown path (SSP) and to identify changes to the plant incorporated since the completion of the analysis (1988). To support this discussion, "For Information Only" markups of the latest FCS P&IDs were prepared and sent to meeting participants on December 10 and 11, 1992. The markups indicated the process paths only and did not illustrate boundaries or vital system auxiliaries for the purposes of this meeting. The following comments resulted.

A major change in the Chemical Volume and Control System (CVCS) occurred in 1990 which altered boron concentrations and Limiting Conditions of Operation (LCOs). This needs to be considered if boration is required as part of the preferred SSP. For some plant conditions, there may be insufficient boron concentration in the SIWRT to perform boration.

Hot shutdown is a design basis condition for the FCS.

The preferred SSP should be compared with the Generic Letter 89-10 work on motor-operated valves (MOVs) in the event that different conditions must be included in the GL 89-10 analysis. T. Leibel will compare the latest list of valves with the current A-46 database. B. Weber will provide the latest list of valves.

FCS has sufficient rod worth to maintain reactivity control without boration for the duration of the A-46 event (72 hours)

Meeting Minutes No. 2

even with one stuck rod (rod of highest worth). B. Weber will confirm and provide a technical input reference.

M. Donahue will confirm the definition of hot shutdown recommended by SQUG and confirmed by NRC through Supplemental Safety Evaluation Report (SSER) No. 2. If the definition of hot shutdown is the FCS Technical Specifications (4% subcritical), boration may be required after Xenon burnout to meet that definition.

The consensus is that letdown will not be required because the plant will be maintained sufficiently hot to preclude significant volume changes from occurring. Inventory losses from seal leakoff and RCP seal degradation will still need to be considered, but this does not constitute letdown. RCP seal leakage is 4 gpm when CCW is operable. It is uncertain if the PORVs will open following plant trip.

In the FCS design, RPS drives the PORVs and block valves, consequently the PORVs will open as part of the reactor trip. Therefore, the block valves must be included in the SSEL.

The consensus is that the highlighted path will work.

It is recommended that the third AFW pump not be used for the A-46 resolution. It is located in the turbine building and is not seismically qualified.

A condensate source will be needed. It is possible to use firewater makeup by hooking up to FW-1275 and makeup to the EFWST through the diesel driven firewater pump. A procedure to accomplish this is already in place. It is estimated that the EFWST can last 7 hours to support decay heat removal (it may actually last longer than that). The length of piping that runs from the firewater hookup to the seismic boundary will need to be evaluated for adequacy.

Control room habitability (air conditioning) needs to be assessed.

In general, maintenance of vital auxiliaries pose the largest concerns. It was recommended that a second meeting be held to discuss vital auxiliaries when the project had progressed that far.

There is a test report that establishes the integrity of the CEDM seals to withstand the postulated scenario. Therefore,

Meeting Minutes No. 2

CCW will not be required to maintain seal cooling. T. Leibel will obtain a copy of the report from B. Weber.

Containment air temperature for the duration of the event should be checked. The current Appendix R analysis should contain comparable information.

Availability of raw water to the containment air coolers should be checked.

If raw water is required, the number of manual actions necessary to open interface valves will need to be checked.

The 1/2-inch line connecting the discharge of Steam Generators is not a crosstie. It is used for radiation monitoring isolation purposes only. The line may need to be highlighted to illustrate boundaries, but it is not part of the SSP.

There is no need to look at air accumulation capacity on the Steam Generator SRVs. The relief points on the various SRVs graduated and will provide sufficient automatically. Operators will not open the SRV to control cooldown.

If Instrument Air will be unavailable, valves 1107A&B will be required and accumulator capacity will need to be checked. Typically air accumulators are validated for 3 strokes or actuations (although they may actually work for 7 or 8). These valves should fail open.

The qualification of the steam supply path for the AFW pump will need to be checked as part of the power source review.

Procedures exist that identify operator action to initiate lube oil for the AFW pump. Qualification of the auxiliaries may fall under the "within-the-box" method of qualification.

ADDENDUM TO

MEETING MINUTES: As discussed in the meeting of December 2, 1992, a SQUG trained reviewer (I. Warner) will sign as a verifier of the Safe Shutdown Calculation.

ATTACHMENTS:

Project Schedule Action Item List

Action Items

No.	Item/Description	Respon	sibility	Date Due
1	Determine date for meeting with Operations personnel to review SSP marked-up P&IDs.	S. Pan	de	12/11/92 Complete
2	Determine whether 11x17 drawings will be sufficiently legible to use as attachments in SSD calculation for highlighting the preferred SSP.	M. Don	ahùe	12/18/92
3	Verify that dBaseIII+ files are compatible with SQUG GIPPER and SSEL Manager programs.	M. Don	ahue	12/11/92 Complete
4	Review past project files for ABB Impell letter 0139-045-006, dated 02-07-89.	T. Leil	be1	12/08/92 Complete
5	Transmit preliminary highlighted P&IDs/Single Line drawings to OPPD.	M. Dona	ahue	12/10/92 Complete
6	Compare SSP MOVs with GL 89-10 MOVs.	T. Leit	pe1	12/24/92
7	Obtain technical reference that confirms FCS has sufficient rod worth (with one stuck rod) to maintain plant subcritical for 72 hours from B. Weber.	T. Leit	pel	12/24/92
8	Confirm definition of hot shutdown for A-46 resolution.	M. Dona	ahue	12/23/92
9	Obtain a copy of CEDM seal leakage test report from B. Weber.	T. Leit	pel	12/24/92

Meeting Minutes No. 1

DATE:

December 2, 1992

LOCATION:

OPPD Energy Plaza

Omaha, NE

ATTENDEES:

OPPD

ABB Impell

J. Mathew S. Pande T. Leibel M. Donahue

DISCUSSION:

Decisions and major topics discussed during the meeting are recorded below. Action items are summarized on the project Action Item List (attached).

PROJECT PLAN/ SCOPE OF WORK:

The proposed project plan and scope of work were reviewed. A list of tasks was distributed and the decision path flowchart was reviewed.

To ensure that the selected preferred SSP is consistent with Station operations, a meeting will be held to review the SSP with Station Operations personnel the week of December 14, 1992. S. Pande will schedule the meeting with the Station, preferably someone from the Systems Group and the Operations Training Department can attend. ABB Impell will transmit preliminary mark-ups of P&IDs/Single Line drawings showing the preferred SSP. The marked-up drawings will be sent to meeting participants by December 10, 1992 to allow a couple of days to review them before the meeting. The proposed agenda for the meeting is:

Review multiple safe shutdown paths

Review selected preferred SSP

Review marked-up P&IDs/Single Line drawings

PREREQUISITES:

A freeze date for the use of technical input will be established on the day of the meeting with Station Operations personnel (the week of December 14th).

DATABASE:

The project is utilizing dBASE III+ as the database platform for capturing the SSEL information. ABB Impell will verify that dBASE III+ is compatible with the SQUG GIPPER and SSEL Manager programs.

Meeting Minutes No. 1

DOCUMENT CONTROL CENTER:

A controlled work area is being maintained in the Lincolnshire Office for technical input, document and database control.

Legibility of working prints reproduced from aperture cards is sometimes poor and will not provide a suitable medium for displaying the boundaries of the safe shutdown path. Direct reproduction from CADD files may be necessary to obtain suitable drawing legibility. ABB Impell will determine if 11x17 reproductions will be sufficiently legible for use as attachments to the SSD calculation.

ORGANIZATION:

ABB Impell will advise OPPD of additional project personnel at the time of their assignment. Resumes will be provided at that time also. The project has added C. Kilbride to serve as Safe Shutdown Lead and D. Upchurch to assist in the review of the SSD calculation. Mr. Upchurch is a certified STA on a C-E plant. Both individuals are located in the Lincolnshire Office.

DELIVERABLES:

Printouts from the database should be patterned from the sample format shown in Appendix A of the SQUG GIP, Rev. 2. corrected February 14, 1992.

SCHEDULE:

The schedule will be modified to reflect the next progress meeting occurring during the week of December 14, 1992.

ABB Impell will assess whether the body of the SSD calculation can be generated and issued for OPPD review before the SSEL is completed, to allow more review time for OPPD.

STATUS REPORTING: Bi-weekly status reports will be issued. If a progress meeting is held close to the time a status report is due, meeting minutes of the progress meeting will be issued as a status report.

NEXT MEETING:

Week of December 14, 1992 Fort Calhoun Station

ATTACHMENTS:

December 2, 1992 Agenda Project Plan/Scope of Work Task List

Decision Path Flowchart

Project Schedule

Project Organization Chart

Action Item List

AGENDA

USI A-46 Resolution Plan December 1, 1992

Project Plan/Scope of Work
Estimated Activities
Resolution process/flowchart
Quality Improvement Program
Process Model Worksheet

Prerequisities

Design freeze date
Feedback on multiple SSP calc
Some history of OPPD input on SSP (CSD vs. HSD)
Any concerns with staying at HSD for 72 hrs

Procedures

Database

Document Control Center

Organization

Additional staff

Interface requirements

OPPD Operations personnel

Deliverables

Format

Schedule

Status reporting

Progress meetings Minutes

Next meeting

Scope/topic of next meeting

Project Plan/Scope of Work

Multiple SSP Evaluation

Establish confidence level in multiple SSP calculation
Compare with Appendix R SSD analysis
Revise calculation
Update to 1992 technical input
Repackage, as necessary
Issue SSP calculation

SSD Calculation/SSEL

Establish confidence level in SSD calculation Revise format of SSD calculation to address assumptions and justifications Revise/incorporate OPPD comments to address:

operator actions, manpower requirements, procedures, transients.

other specific concerns

Perform supporting calculations (water inventory, air capacity, etc.), as necessary Update to 1992 technical input Perform walkdown for relay information (mfgr/model numbers), as necessary

Markup P&IDs/Single lines to show SSP boundaries
Preliminary markup to support meeting with Operations
Final markup to reflect calculation results

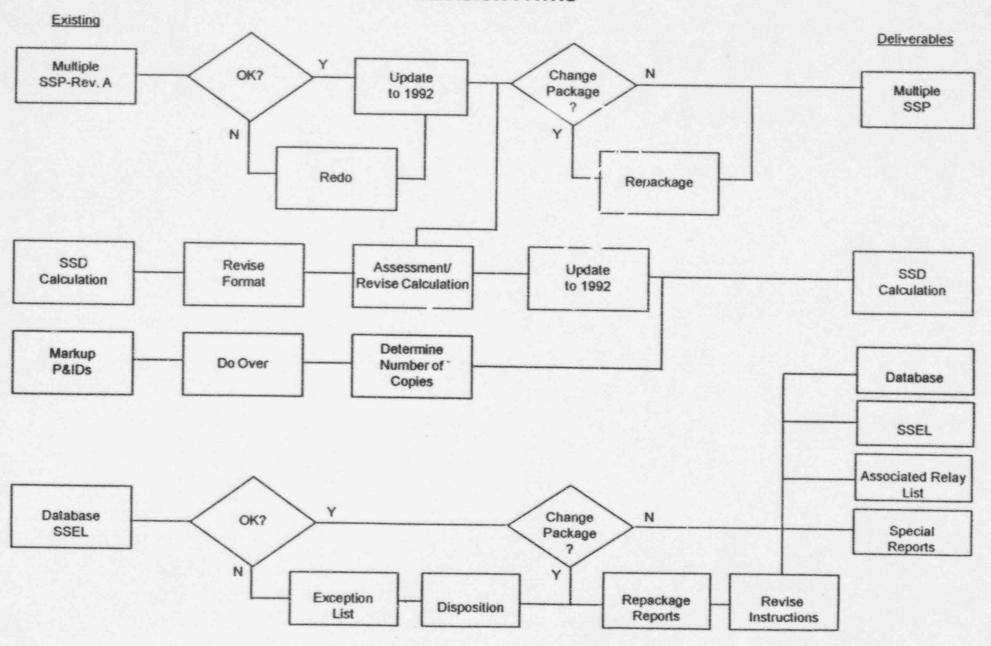
Issue SSD calculation/SSEL/Associated Relay list

SSEL Database

Confirm format/structure of database/reports
Modify report formats, as necessary
Verify integrity of existing database
Identify exceptions and disposition
Re-input database, if required
Verify database output
Revise database printout instructions
Issue database

USI A-46 RESOLUTION PLAN Omaha Public Power District

DECISION PATHS



USI A-46 RESOLUTION Omaha Public Power District

				mber		1		ecembe	er			Janu	ary		
ID	Name	Start	Finish	11/15	11/22	11/29		12/13		12/27	1/3	1/10	1/17	1/24	1/3
1	Review OPPD comments and develop resolution plan	11/17/92	12/1/92												
2	Resolution plan/schedule meeting	12/2/92	12/2/92			•									
3	Verify functional criteria	11/30/92	12/4/92												
4	Multiple SSP review and identification of preferred path	12/3/92	12/9/92												
5	Preliminary markup of P&IDs	12/7/92	12/9/92												
6	Progress meeting	12/10/92	12/10/92				*								
7	Appendix R SSP check	12/10/92	12/23/92												
8	Finalize SSD calculation/ SSEL	12/11/92	1/14/93												
9	Final markup of P&IDs	12/18/92	1/14/93												

Project: 0139-00045.002/003

Date: 12/1/92

Critical Noncritical

Progress Milestone �

Summary V

USI A-46 RESOLUTION

Omaha Public Power District

				mber)ecembe	er			Jane	uary		
D	Name	Start	Finish	11/15	11/22	11/29	12/6	12/13	12/20	12/27	1/3	1/10	1/17	1/24	1/3
10	Review/Update Database	12/11/92	1/14/93												
11	Progress meeting	12/21/92	12/21/92						٠						
12	Progress meeting	1/7/93	1/7/93								*				
13	Issue SSD calculation/SSEL for OPPD comment	1/15/93	1/15/93									•			
14	OPPD Review SSD Calculation	1/15/93	1/22/93												
15	Finalize database/SSEL/Associated relay list	1/4/93	2/4/93	*											
16	Incorporate OPPD comments	1/22/93	2/4/93												
17	Issue SSEL/Associated relay list/Component database/SSD calculation	2/5/93	2/5/93												

Project: 0139-00045.002/003
Date: 12/1/92

Critical Progress Summary

Milestone

USI A-46 RESOLUTION OMAHA PUBLIC POWER DISTRICT **Project Organization** Project Manager T. A. Leibel Asst. Project Manager M. S. Donahue **Project Administrator Technical Consultants** A. B. Auvil (SSD) M. Leiner I. P. Warner (SQUG) Safe Shutdown Lead C. A. Kilbride SSD Calculation Team J. R. Ratway D. K. Upchurch SSEL/Relay List Engineers ASEA BROWN BOVERI **ABB Impell Corporation Database Engineer** Lincolnshire, Illinois

12/1/92

Action Items

No.	Item/Description	Responsibility	Date Due
1	Determine date for meeting with Operations personnel to review SSP marked-up P&IDs.	S. Pande	12/11/92
2	Determine whether 11x17 drawings will be sufficiently legible to use as attachments in SSD calculation for highlighting the preferred SSP.	M. Donahue	12/18/92
3	Verify that dBaseIII+ files are compatible with SQUG GIPPER and SSEL Manager programs.	M. Donahue	12/11/92
4	Review past project files for ABB Impell letter 0139-045-006, dated 02-07-89.	T. Leibel	12/08/92
5	Transmit preliminary highlighted P&IDs/Single Line drawings to OPPD.	M. Donahue	12/10/92



August 9, 1994

Omaha Public Power District Fort Calhoun Station P.O. Box 399 Fort Calhoun, NE 68023

ATTENTION: Bernie Van Sant

Supervisor - DEN Mechanical

SUBJECT: Response to comments received from OPPD on final review of SSEL for A-46.

Gentlemen:

This is in response to comments received from Sam Pande which were generated as a result of the review OPPD conducted on Revision 4 of the SSEL and the A-46 report. Each comment is summarized along with VECTRA's response.

Gerg Guliani

Comment: HCV-1041A and 1042A are basically air operated check valves. How are we going to

"Manually" close them? Remove air from the Actuator? This action is not

proceduralized in EOP's or AOP's.

Response: It is intended that an operator would use what ever means is needed to close the valve.

It is expected that the easiest way to accomplish that would be to remove the air from

the Actuator.

Comment: What about Toxic Gas Isolation? Do we need to show that we can isolate the Control

Room from outside air?

Response: For response to A-46, it is not necessary to consider a Toxic Gas release coincident

with a seismic event. This would be considered outside the scope of A-46.

Jens Friedrichsen

Comment: What is the Basis for HVAC as a safe shutdown flow path?

Response: HVAC systems were considered only as needed for maintaining safe shutdown

equipment operability. A room heatup calculation has been prepared which shows that for the 72 hour duration, excessive temperatures should not be a concern and therefore the HVAC systems (with the exception of Control Room and Containment cooling)

have been removed from the SSEL.

Joe Mathew

Comment: Include the Raw Water Strainers and their MCCs on the SSEL.

Response: The Strainers and MCCs have been added to the SSEL.

Comment: WD-21 should be deleted from the SSEL and the corresponding isolation valves added

as WD-21 is abandoned equipment.

Response: WD-21 has been deleted from the SSEL. The additional isolation valves required to

provide system isolation as a result of this deletion have been identified on the

applicable P&ID's. The additional valves are normally closed, manual isolation valves

and therefore have not been added to the SSEL.

Comment: Add discussion on not considering single failures on the MSIVs.

Response: A discussion regarding the single failure of the MSIVs has been included in Section

4.1.4 of the SSEL which states; "The Main Steam Isolation Valves HCV-1041A and 1042A, do not provide two valves in series for system boundary isolation. These valves are normally open fail closed and are required to be closed in order to satisfy their safe shutdown function. Should these valves fail to close it will be necessary to take operator action to manually close the valve. Manual action is an acceptable means to meet the intent of the single failure criteria of the GIP. In particular, section 3.2.6 of the GIP specifically states the use of operator action to meet the single failure criteria."

Should you have any questions regarding these responses, please give me a call at 402-330-9846.

Very truly yours,

Tim A. Leibel

Manager

Midlands Branch Office

c: Sam Pande Joe Mathew



September 6, 1994

Omaha Public Power District Fort Calhoun Station P.O. Box 399 Fort Calhoun, NE 68023

ATTENTION: Bernie Van Sant

Supervisor - DEN Mechanical

SUBJECT: Resolution of Greg Guliani's A-46 comment

Gentlemen:

This is to document Greg Guliani's acceptance of VECTRA's response to his comments regarding the A-46 SSEL and associated report. The comment and response are as follows:

Comment: HCV-1041A and 1042A are basically air operated check valves. How are we going to

"Manually" close them? Remove air from the Actuator? This action is not

proceduralized in EOP's or AOP's.

Response: It is intended that an operator would use what ever means is needed to close the valve.

It is expected that the easiest way to accomplish that would be to remove the air from

the Actuator.

Greg was contacted to discuss the need to revise either EOP's or AOP's as a result of this comment. Greg felt that it was not necessary to revise any procedures. This is based on the fact that the operators are instructed to take whatever actions are needed to close the MSIV's if required. The requirement to fail air to the MSIV's as described in the A-46 Safe Shutdown report is consistent with the existing EOP's and AOP's.

Should you have any questions regarding this issue, please give me a call at 402-330-9846.

Very truly yours

Tim A. Leibel Manager

Midlands Branch Office

Sam Pande Joe Mathew Greg Guliani

SAFE SHUTDOWN EQUIPMENT LIST (SSEL) REPORT

ATTACHMENT D

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
1A3	3	56	1016	11WC18N1A
1A4	3	56	1016	16WC18N1A
1B3A	2	56	1011	10WC21N5B
IB3B	2	56	1011	10WC9N5B
1B3B-4B	2	56	1011	10WC9N5B
1B3C	2	56	1011	10WC10N4A
1B3C-4C	2	56	1011	10WC10N4A
1B4A	2	56	1011	10ED15S7D
1B4B	2	56	1011	10ED12N5B
1B4C	2	56	1011	15WC4N4D
A/LT-911	18	CONT	1002	8WDD8NII
A/LT-912	18	CONT	1000	9WEE39NIII
A/PT-120	18	CONT	1018	18WDD12NII
A/PT-913	18	CONT	1002	08WDD07NII
A/PT-914	18	CONT	1000	9WEE39NIII
A/TE-112C	19	CONT	1008	10WBB26NII
A/TE-112H	19	CONT	1008	24WBB25NII
A/TE-122C	19	CONT	1010	18WCC18NIII
A/TE-122H	19	CONT	1008	2WCC18NIII
AC-10A	6	INTK	994	1ECC1S103
AC-10B	6	INTK	994	1E'CC-1N'103
AC-10C	6	INTK	994	1E'CC-1S'103
AC-10D	6	INTK	994	IECCIN104
AC-12A	0	INTK	994	3W'BB-3N'102
AC-12B	0	INTK	994	13W'BB-16N'104
AC-1A	21	4	0994	06WD18N5B
AC-1B	21	4	1003	06WD18N5B
AC-IC	21	18	0994	23WC24N4A
AC-ID	21	18	0996	23WC24N5B
AC-2	21	69	1030	6WL24N7A
AC-3A	5	69	1027	IWN9N7A
AC-3B	5	69	1027	01WN04S8A
AC-3C	5	69	1027	01WN03N8A
AC-4A	21	14	0994	13E'L-17S'7A
AC-4B	21	15	0994	13W'E-17S'7A
AC-8	21	5	0995	9W'R-0N'5C
AI-10B	20	77	1036	5W'D-9N'7A
AI-12	20	77	1036	5W'D-16N'7A
AI-133A	20	63	1007	3W'D-5N'1A
AI-133B	20	64	1007	3W'D-26N'1A
AI-179	20	57	1013	19W'D-18N'4A
AI-185	20	57	1013	19W'D-15N'4A
AI-196	20	57	1013	19W'D-15N'3A

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
AI-197	20	56	1011	0W'D-0N'7A
AI-208A	20	77	1036	7W'6D-0N'D
AI-208B	20	77	1036	7W'6D-8N'D
AI-212	20	57	1013	19W'D-20N'4A
AI-214	20	20	994	26W'D-5N'2B
AI-215	20	20	994	26W'D-5N'2B
AI-40A	20	77	1036	15W'D-11N'6D
AI-40B	20	77	1036	15N'D-5N'7A
AI-40C	20	77	1036	15W'D-4N'8A
AJ-40D	20	77	1036	15W'D-10N'8A
AI-41A	20	77	1036	15W'D-0N'7A
AI-41B	20	77	1036	15W'D-8N'8A
AI-42A	20	77	1036	15W'D-2N'7A
AI-42B	20	77	1036	15W'D-6N'8A
AI-45	20	77	1036	15W'D-7N'7A
AI-4A	20	77	1036	18W'C-12N'6D
AI-4B	20	77	1036	20W'C-12N'6D
AI-66A	20	77	1036	17W'C-14N'8A
AI-66B	20	77	1036	14W'C-14N'8A
ATA-DI	20	63	1013	2WD0N1A
ATA-D2	20	64	1013	3WD0N2A
ATD-D1	20	63	1013	7WD12N1A
ATD-D2	20	64	1013	8WD0N2A
B/LT-911	18	CONT	1011	15WCC3NI
B/LT-912	18	CONT	1002	14WCC8NIV
B/PT-120	18	CONT	1019	15WCC4NI
B/PT-913	18	CONT	1011	15WCC3NI
B/PT-914	18	CONT	1002	14WCC8NIV
B/TE-112C	19	CONT	1008	20WCC26NII
B/TE-112H	19	CONT	1008	24WBB24NII
B/TE-122C	19	CONT	1008	03WBB21NIII
B/TE-122H	19	CONT	1008	2WCC18NIII
CB-1,2,3	20	77	1036	18W'C-1N'7A
CB-10,11	20	77	1036	2W'D-18N'7A
CB-4	20	77	1036	0W'D-4N'7A
CB-4 AUX	20	77	1036	0W'D-4N'7A
CH-11A	21	26	1013	28EU9S7A
CH-11B	21	26	1013	42EU9S7A
CH-1A	5	6	0991	05EU04N6E
CH-1B		6	0991	34WT6N6E
CH-1C	5	6	0991	17WT7N6E
CH-22A	21	6	0993	51WT11N6E
CH-22B	21	6	0993	36WT11N6E

CH 22C CH-26A CH-26A CH-26B CH-26B CH-26B CH-26C CH-26C CH-6 CH-6 CH-7 CH-7 CH-7 CH-7 CH-7 CH-7 CH-7 CH-7	BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
CH-26B CH-26C CH-26C CH-6 CH-6 21 CONT 0994 13WEE-16NIII CH-7 21 12 0992 6E'Q-0S'6E DI 20 63 1010 2E'K-5N'1A DC 20 64 1010 2E'K-5N'1A DC 21 17 63 1010 03EF-08N1A DG-1 17 63 1010 03EF-07S2B DW-46A-2 10 069 1025 39W'T-6N'6A DW-46B-2 10 69 1025 39W'T-6N'6A EE-4N 4 56 1011 6WCSN6D EE-4Q 4 56 1011 6WCSN6D EE-4R 4 56 1011 6WCSN6D EE-4R 4 56 1011 0WC3N5D EE-4S 4 56 1011 0WC3N5D EE-8B 15 55 1012 0WD18N6D EE-8B 15 55 1012 0WD12N7B EE-8C 16 56 1011 9WC13N6D EE-8B 16 56 1011 16WC1AN6D EE-8B 16 56 1011 16WC-0N'7A EE-8B 16 56 1011 16WC-0N'7A EE-8B 16 56 1011 16WC-0N'7A EE-8B 16 56 1011 18WC9N6D EE-8B EE-8B 16 56 1011 18WC2N6D EE-8B EE-8B 16 56 1011 18WC2N6D EE-8B EE-8B 16 56 1011 18WC9N6D EE-8B EE-8B 16 56 1011 18WC2N6D EE-8B EE-8B 16 56 1011 18WC9N6D EE-8B EE-8B 16 56 1011 1000000000000000000000000000	CH 22C	21	6	0993	18WT10N6E
CH-26C CH-6 CH-6 CH-6 21 CONT 0994 13WEE-16NIII CH-7 21 12 0992 6E'Q-05'6E DI 20 63 1010 2E'K-5N'1A DC 2 20 64 1010 2E'K-2N'1A DG-1 17 63 1010 03EF-08N1A DG-2 17 64 1010 03EF-07S2B DW-46A-2 10 69 1025 39WT-6N'6C EE-4N 4 56 1011 6WCSN6D EE-4P 4 56 1011 6WCSN6D EE-4R 4 56 1011 6WCSN6D EE-4S 4 56 1011 0WD3N6D EE-8A 15 55 1012 0WD15N7B EE-8B 15 55 1012 0WD12N7B EE-8C 16 56 1011 6WC1N6D EE-8B 16 56 1011 6WC1N7B EE-8B 16 56 1011 6WC-0N'7A EE-8B 16 56 1011 16WC-0N'7A EE-8B 16 56 1011 16WC-0N'7A EE-8B 16 56 1011 18WC9N6D EE-8B EE-8B 16 56 1011 1000000000000000000000000000		21	6	0993	48WT11N6E
CH-6 CH-7 21 12 0992 6E'Q-0S'6E D1 20 63 1010 2E'K-5N'1A D2 20 64 1010 2E'K-5N'1A D2 20 64 1010 2E'K-5N'1A DG-1 17 63 1010 03EF-0RS1A DG-2 17 64 1010 03EF-0RS1A DW-46A-2 10 69 1025 39W'T-6N'6A DW-46B-2 10 69 1025 39W'T-6N'6C EE-4N 4 56 1011 6WCSN6D EE-4P 4 56 1011 6WCSN6D EE-4Q 4 56 1011 6WCSN6D EE-4R 4 56 1011 0WC1IN6D EE-4S 4 56 1011 0WC1IN6D EE-8A 15 54 1012 9WC15N7B EE-8B 15 55 1012 0WD12N7B EE-8C 16 56 1011 0WC1N6D EE-8C 16 56 1011 0WC0NYA EE-8F 14 56 1011 16WC-0N'7A EE-8G 14 56 1011 16WC-0N'7A EE-8H 16 56 1011 17WC6N6D EE-8B 16 56 1011 18WC9N6D EE-8B 16 56 1011 16WC1AN6D EE-8C 16 56 1011 16WC-0N'7A EE-8C 16 56 1011 16WC-0N'7A EE-8C 16 56 1011 18WC9N6D EE-8C		21	6	0993	33WT11N6E
CH-7 21 12 0992 6E'Q-08'6E D1 20 63 1010 2E'K-5N'1A D2 20 64 1010 2E'K-22N'1A DG-1 17 63 1010 03EF-0782B DW-46A-2 10 69 1025 39W'T-6N'6A DW-46B-2 10 69 1025 39W'T-6N'6C EE-4N 4 56 1011 6WC8N6D EE-4P 4 56 1011 20WC5N6D EE-4R 4 56 1011 20WC3N5D EE-4S 4 56 1011 0WC15N7B EE-8B 15 55 1012 <td></td> <td>21</td> <td>6</td> <td>0993</td> <td>16WT10N6E</td>		21	6	0993	16WT10N6E
D1 20 63 1010 2E'K-5N'1A D2 20 64 1010 2E'K-22N'1A DG-1 17 63 1010 03EF-08N1A DG-2 17 64 1010 03EF-07S2B DW-46A-2 10 69 1025 39W'T-6N'6C EE-4N 4 56 1011 6WC8N6D EE-4P 4 56 1011 20WC5N6D EE-4P 4 56 1011 0WC5N6D EE-4S 4 56 1011 0WC11N6D EE-4S 4 56 1011 0WC15N7B EE-8B 15 55 1012	CH-6	21	CONT	0994	13WEE-16NIII
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EE-8K 16 56 1011 6WC5N6D EE-8L 16 56 1011 18WC6N6D EE-8P 16 56 1011 1WC20N6D EE-8Q 16 56 1011 18WC2N6D FCV-1368 7 19 0993 07WC18N3A FCV-1369 7 19 0991 03WC7N3AA FCV-269 7 26 1011 51WT-8N'6E FE-1368 18 19 0996 3WC0N4A FE-1369 18 19 0996 3WC14N3A FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	EE-8H	16	56	1011	7WC6N6D
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EE-8Q 16 56 1011 18WC2N6D FCV-1368 7 19 0993 07WC18N3A FCV-1369 7 19 0991 03WC7N3AA FCV-269 7 26 1011 51WT-8N'6E FE-1368 18 19 0996 3WC0N4A FE-1369 18 19 0996 3WC14N3A FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	EE-8L	16	56	1011	18WC6N6D
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FCV-1369 7 19 0991 03WC/N3AA FCV-269 7 26 1011 51W'T-8N'6E FE-1368 18 19 0996 3WC0N4A FE-1369 18 19 0996 3WC14N3A FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	EE-8Q	16	56	1011	18WC2N6D
FCV-269 7 26 1011 51W'T-8N'6E FE-1368 18 19 0996 3WC0N4A FE-1369 18 19 0996 3WC14N3A FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FCV-1368	7	19	0993	07WC18N3A
FE-1368 18 19 0996 3WC0N4A FE-1369 18 19 0996 3WC14N3A FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FCV-1369	7	19	0991	03WC7N3AA
FE-1369 18 19 0996 3WC14N3A FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FCV-269	7	26	1011	51W'T-8N'6E
FO-1 21 OTDR 0995 29EM-30S1A FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 P8 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FE-1368	18	19	0996	3WC0N4A
FO-2-1 21 63 1017 07EK-14N1A FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FE-1369	18	19	0996	3WC14N3A
FO-2-2 21 64 1017 07EK-01S2B FT-1368 18 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FO-1	21	OTDR	0995	29EM-30S1A
FT-1368 f8 19 0993 01WC04S4A FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FO-2-1	21	63	1017	07EK-14N1A
FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FO-2-2	21	64	1017	07EK-01S2B
FT-1369 18 19 0993 01WC05S4A FW-10 5 19 0991 03WC-1N3A	FT-1368	18	19	0993	01WC04S4A
FW-10 5 19 0991 03WC-1N3A	FT-1369	18	19	0993	
	FW-10	5	19		
	FW-19	21	81	1045	

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
FW-6	5	19	0992	04WC-5S4A
FW-654	0	81	1041	10ED5S4A
GE/MAC	20	77	1036	GE/MAC
GM-1	20	77	1036	22W'C-12N'6D
GM-2	20	77	1036	14W'C-12N'6D
HCV-1041A	7	81	1040	10WD-3N4A
HCV-1041B	7	81	1040	10WD7N4A
HCV-1041C	8A	81	1042	12WD06N4A
HCV-1042A	7	81	1040	15WD19N4A
HCV-1042B	7	81	1040	15WD19N4A
HCV-1042C	8A	81	1042	10EG-20N4A
HCV-1107A	7	CONT	1050	15WBB09NII
HCV-1107B	7	81	1038	00WH-4N3A
HCV-1108A	7	CONT	1050	14WBB-31NIII
HCV-1108B	7	81	1038	02EJ-0N5B
HCV-1384	8A	81	1039	22ED-21N5B
HCV-1385	8A	81	1038	20WD20N4A
HCV-1386	8A	81	1038	9EG-15S4A
HCV-1387A	7	CONT	0998	13WBB07NIV
HCV-1387B	7	13	6992	4WN2N6B
HCV-1388A	7	CONT	0948	24WAA0NIV
HCV-1388B	7	13	0991	08/EN01S6B
HCV-150	8A	CONT	1047	04WDD10NII
HCV-151	8A	CONT	1047	21WCC08NII
HCV-238	7	CONT	0999	06WBB25NII
HCV-239	7	CONT	1000	24WCC-24NIII
HCV-240	7	CONT	1045	14WDD06NII
HCV-247	8B	CONT	1002	07WBB26NII
HCV-248	8B	CONT	1000	16WCC09NII
HCV-249	7	CONT	1045	18WDD12NII
HCV-2504A	7	CONT	1018	6W'EE-0N'IV
HCV-2506A	7	CONT	1016	16WBB-17NII
HCV-2507A	7	CONT	1018	27WBB-35NIII
HCV-257	7	26	1014	12W'T-8N'6E
HCV-258	8A	26	1010	12WT6N6E
HCV-264	7	26	1011	30E'U-9N'6E
HCV-265	8A	26	1010	30EU7N6E
HCV-2805A	8B	INTK	997	7W'BB-4N'102
HCV-2805B	8B	INTK	995	3E'CC-5S'105
HCV-2850	7	INTK	1000	6ECC6S103
HCV-2851	7	INTK	1000	6E'CC-6N'103
HCV-2852	7	INTK	1000	6E'CC-6S'104
HCV-2853	7	INTK	1000	6ECC6N104

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
HCV-2859	7	CONT	1016	15WAA6NIII
HCV-2861	7	109	1007	IW'SA-24N'7
HCV-2874A	7	INTK	1001	6E'CC-4S'103
HCV-2874B	7	INTK	1002	6E'CC-4N'103
HCV-2875A	7	INTK	1001	6E'CC-7N'103
HCV-2875B	7	INTK	1001	6E'CC-8S'104
HCV-2876A	7	INTK	1001	6E'CC-4S'104
HCV-2876B	7	INTK	1001	12WBB-4N104
HCV-28/7A	7	18	0993	13ED12S6D
HCV-2877B	7	18	0993	13ED08S6D
HCV-2878A	7	18	0993	13ED04S6D
HCV-2878B	7	18	0993	13ED03S6D
HCV-2879A	7	18	0993	13ED04N6D
HCV-2879B	7	18	0993	13ED06N6D
HCV-2880A	7	18	0994	13ED06S6D
HCV-2880B	7	4	0991	07WD04N5B
HCV-2881A	7	18	0994	13ED01N6D
HCV-2881B	7	4	1003	07WD04N5B
HCV-2882A	7	18	0994	08ED09N4A
HCV-2882B	7	18	0999	04ED09N5B
HCV-2883A	7	18	0994	08ED07S7A
HCV-2883B	7	18	0999	04ED16S6D
HCV-2898A	7	81	1037	7WJ14N6
HCV-2898B	7	81	1037	9WJ15N6
HCV-2899A	7	81	1037	6WG14N6
HCV-2899B	7	81	1037	6WG15N6
HCV-400A	7	69	1027	08WN06N6B
HCV-400B	7	69	1030	09EP08N6C
HCV-400C	7	69	1027	08WP03N6C
HCV-400D	7	69	1031	09WP10N6C
HCV-401A	7	69	1027	07EP03N6C
HCV-401B	7	69	1030	07EP08N6C
HCV-401C	7	69	1027	10WP5N6C
HCV-401D	7	69	1031	10WP12N6C
HCV-402A	7	69	1027	03EP03N6C
HCV-402B	7	69	1030	03EP08N6C
HCV-402C	7	69	1027	06WP5N5C
HCV-402D	7	69	1031	05WP10N6C
HCV-403A	7	69	1027	0WP3N6C
HCV-403B	7	69	1030	01EP08N6C
HCV-403C	7	69	1027	02WP03N6C
HCV-403D	7	69	1031	01WP08S7A
HCV-438A	7	CONT	0994	8WBB37NIII

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
HCV-438B	7	13	0992	9WN3N6C
HCV-438C	7	CONT	0994	6WCC0NIV
HCV-438D	7	13	0992	12WN3N6C
HCV-442	7	CONT	0995	01WBB10NII
HCV-443	7	CONT	0995	00WBB15NII
HCV-444	7	CONT	0995	0WCCONIV
HCV-445	7	CONT	0995	15WBBONIV
HCV-489A	7	4	0995	10WD11N5B
HCV-489B	7	4	0992	10WD1N6D
HCV-490A	7	4	1005	9WD13N5B
HCV-490B	7	4	1003	10WD2N6D
HCV-491A	7	18	0992	06ED06N5B
HCV-491B	7	18	0992	08ED10S5B
HCV-492A	7	18	0992	08ED17S6D
HCV-492B	7	18	0992	08ED01N6D
HCV-497	7	4	0991	2E'E-8S'7A
HCV-724A	7	CONT	1063	18W'AA-13N'II
HCV-725A	7	CONT	1063	18W'AA-29N'III
HCV-921	7	81	1043	13W'D-0N'4A
HCV-922	7	81	1043	13W'D-0N'4A
LCV-101-1	7	CONT	0997	9WEE-17NIII
LCV-101-2	7	CONT	0997	10WEE-20NIII
LCV-218-2	8A	29	1010	43WT24N7A
LCV-218-3	8A	7	0992	45WT02N7B
LO-56	21	19	0990	5WC5N3A
LT-101X	18	CONT	1013	15WCC3NI
LT-101Y	18	CONT	1013	18WDD14NII
LT-1183	18	81	1039	18WC13N3A
LT-1188	18	81	1038	18S3A-7ED
MCC-3A1	1	57	1013	02WD14N4A
MCC-3A2	1	4	0989	01WQ05S7A
MCC-3B1		57	1013	02WD05S4A
MCC-3B3	1	INTK	1007	10W'CC-3N'101
MCC-3C1	1	57	1013	02WD10N3A
MCC-3C2	1	26	1007	0WQ8N7A
MCC-4A1	1	57	1013	10WD14N4A
MCC-4A2	1	26	1007	05EQ08N7A
MCC-4B1	1	57	1013	10W'D-0N'4A
MCC-4C1	1	57	1013	10WD10N3A
MCC-4C4	1	INTK	1007	0W'CC-3N'101
MS-275	7	81	1039	05EG-6S4A
MS-276	7	81	1039	7EG-06S4A
MS-277	7	81	1040	10WD-0N4A

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION
MS-278	7	81	1040	10WD-2N4A
MS-279	7	81	1038	19WD5N4A
MS-280	7	81	1038	18WD05N04A
MS-281	7	81	1038	10EG-12N4A
MS-282	7	81	1038	10EG-14N4A
MS-291	7	81	1039	19WD24N3A
MS-292	7	8 i	1038	10EG-10N4A
NE-001	0	CONT	1000	18WBB0NIII
NE-004	0	CONT	1000	18WBB0NIII
NM-004	20	57	1018	24WD17N4A
NT-001	20	20	1005	8WG28N4A
NT-004	20	57	1018	3WF16N4A
PCV-102-1	8B	CONT	1047	21WCC09NII
PCV-102-2	8B	CONT	1047	4WDD09NII
PCV-840A-1	7	72	1047	8W'J1-15N'7A
PCV-840A-1	7	72	1047	8W'J1-11N'7A
PCV-840B	7	72	1050	12W'J1-12N'7A
PCV-841A-1	7	72	1047	8W'J1-14N'6D
PCV-841A-1	7	72	1047	8W'J1-10N'6D
PCV-841B	7	72	1050	12W'J1-14N'6D
PI-2854-1	18	INTK	998	15WBB12N102
PI-2855-1	18	INTK	998	16WBB10N103
PI-2856-1	18	INTK	998	16WBB11N103
PI-2857-1	18	INTK	998	17WBB8N104
PT-105	18	CONT	1003	14WCC2NI
PT-115	18	CONT	1013	15WCC3NI
PT-499	18	69	1029	IWN-0N8A
RC-141	7	CONT	1049	09WDD22NII
RC-142	7	CONT	1049	02WDD22NII
RC-4	21	CONT	1020	6W'DD-19N'II
RC-4	21	CONT	1020	6W'DD-19N'II
RC-4	21	CONT	1020	6W'DD-19N'II
SA-3A-1	21	63	1025	16WD16N1A
SA-3A-2	21	64	1027	03EF-02S2B
SA-3B-1	21	63	1029	16WD16N1A
SA-3B-2	21	64	1032	03EF-02S2B
SA-4A-1	21	63	1029	OWF16N1A
SA-4A-2	21	64	1027	04WF-02S2B
SA-4B-1	21	63	1025	OWF16N1A
SA-4B-2	21	64	1032	04WF-02S2B
SI-1A	10	21	0972	45W'T-6N'6E
SI-1B	10	22	0972	1WT-15S'8A
SI-2A	10	21	0972	44W'T-18N'6E

вох	SQUG_CLASS	ROOM	ELEV	LOCATION
SI-2B	10	22	0972	0E'T-6S'8A
SI-2C	10	21	0972	10E'U-6S'8A
SI-3A	10	21	0972	46WT-16N'5D
SI-3B	10	22	0972	IWT-IN'6C
SI-3C	10	22	0972	1W'T-3N'6E
SI-4A	10	CONT	1020	15WDD-20NII
SI-4B	10	CONT	1014	6W'BB-30N'II
SI-4C	10	CONT	1013	14WEE-12NIII
SI-4D	10	CONT	1014	8WBB-12NIII
SI-5	21	2	0989	SW AUX
SL-3	21	60	1010	34W'P-6N'5D
SL-51	10	60	1007	23W'P-0N'6E
SL-8A	21	60	1011	19W'P-14N'5D
SL-8B	21	60	1012	19W'P-12N'5D
T1B-3A	4	56	1011	7WC0N6D
T1B-3B	4	56	1011	7WC0N5B
T1B-3C	4	56	1011	7WC17N4A
T1B-4A	4	56	1011	20WC30N5B
TIB-4B	4	56	1011	20WC0N5B
T1B-4C	4	56	1011	20WC14N4A
T1C-3A	1	56	1011	T1C-3A
TCV-202	7	CONT	0998	8WCC-24NIII
TCV-893	8A	72	1037	8WJ112N7A
TCV-894	8A	72	1037	8WJ111N6D
VA-14A	10	CONT	0994	19WAA-33NII
VA-14B	10	CONT	0994	15WAA-14NIII
VA-3A	9	CONT	1060	18WAA39NII
VA-3B	9	CONT	1060	18WAA3NIII
VA-46A	10	72	1036	8WJ1-12N7A
VA-46B	10	72	1036	8WJ1-11N6D
WD-28A	21	16	0993	7E'L-22S'9
WD-28B	21	16	0993	7E'L-10S'9
YCV-1045	7	19	0996	06WC01N3A
YCV-1045A	7	81	1044	03WD-2S4A
YCV-1045B	7	81	1042	11EG-17N4A
YCV-871A	7	65	1042	11W'D-9N'1A
YCV-871B	7	65	1042	11W'M-4N'1A
YCV-871C	7	65	1042	11W'M-24N'1A
YCV-871D	7	65	1042	11W'M-17N'1A
YCV-871E	7	63	1011	19W'K-2N'1A
YCV-871F	7	64	1030	19W'K-17N'1A
YCV-871G	7	MISL	1024	10W'F-11S'1A
YCV-871H	7	MISL	1024	10W'K-11S'1A

SAFE SHUTDOWN EQUIPMENT LIST (SSEL) REPORT

ATTACHMENT E

вох	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL	
1A2	3	56	1011	10E'D-10N'3A		Y		
1A3	3	56	1016	11WC18N1A	Y	Y	Y	
1A4	3	56	1016	16WC18N1A	Y	Y	Y	
1B3A	2	56	1011	10WC21N5B	Y	Y	Y	
1B3B	2	56	1011	10WC9N5B	Y	Y	Y	
1B3B-4B	2	56	1011	10WC9N5B	Y	Y	Y	
1B3C	2	56	1011	10WC10N4A	Y	Y	Y	
1B3C-4C	2	56	1011	10WC10N4A	Y	Y	Y	
1B4A	2	56	1011	10ED15S7D	Y	Y	Y	
1B4B	2	56	1011	10ED12N5B	Y	Y	Y	
1B4C	2	56	1011	15WC4N4D	Y	Y	Y	
52XX-2/4	3	56	1011	9E'D-1N'1A		Y		
52XX-2/5	3	56	1011	9E'D-1N'1A		Y		
89XX-3/DST1	3	TURB	1016	0WTD1-0N'1		Y		
A/LT-911	18	CONT	1002	8WDD8NII	Y			
A/LT-912	18	CONT	1000	9WEE39NIII	Y			
A/PC-742-1	3	59	1012	12W'P-14N'6D		Y	Y	
A/PC-742-2	3	59	1012	10W'P-14N'6D		Y	Y	
A/PT-120	18	CONT	1018	18WDD12NII	Y			
A/PT-913	18	CONT	1002	08WDD07NII	Y			
A/PT-914	18	CONT	1000	9WEE39NIII	Y			
A/TE-112C	19	CONT	1008	10WBB26NII	Y			
A/TE-112H	19	CONT	1008	24WBB25NII	Y			
A/TE-122C	19	CONT	1010	18WCC18NIII	Y			
A/TE-122H	19	CONT	1008	2WCC18NIII	Y			
AC-10A	6	INTK	994	1ECC1S103	Y			
AC-10B	6	INTK	994	1E'CC-1N'103	Y			
AC-10C	6	INTK	994	1E'CC-1S'103	Y			
AC-10D	6	INTK	994	1ECC1N104	Y			
AC-12A	0	INTK	994	3W'BB-3N'102	Y	Y		
AC-12A CTRL PANEL	20	INTK	996	8W'BB-0N'102		Y		
AC-12B	0	INTK	994	13W'BB-16N'104	Y	Y		
AC-12B CTRL PANEL	20	INTK	996	8W'BB-0N'105		Y		
AC-1A	21	4	0994	06WD18N5B	Y			
AC-1B	21	4	1003	06WD18N5B	Y			
AC-1C	21	18	0994	23WC24N4A	Y			
AC-1D	21	18	0996	23WC24N5B	Y			
AC-2	21	69	1030	6WL24N7A	Y			
AC-3A	5	69	1027	IWN9N7A	Y			
AC-3B	5	69	1027	01WN04S8A	Y			
AC-3C	5	69	1027	01WN03N8A	Y			
AC-4A	21	14	0994	13E'L-17S'7A	Y			
AC-4B	21	15	0994	13W'E-17S'7A	Y			

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL
AC-8	21	5	0995	9W'R-0N'5C	Y		
AC-DC-1	20	77	1036	25W'C-12N'6D		Y	Y
AC-DC-2	20	77	1036	12W'C-12N'6D		Y	Y
AI-106A	20	77	1036	5N'6D-0N'D		Y	Y
AI-106B	20	77	1036	5W'6D-8N'D		Y	Y
AI-107	20	60	1007	23W'P-0N'6E		Y	
AI-108A	20	56	1011	8W'C-23N'3A		Y	Y
AI-108B	20	56	1011	16W'C-23N'3A		Y	Y
AI-109A	20	56	1015	0W'C-0N'4A		Y	Y
AI-109B	20	56	1014	0W'C-24N'3A		Y	Y
AI-10B	20	77	1036	5W'D-9N'7A	Y		
AI-12	20	77	1036	5W'D-16N'7A	Y		
AI-133A	20	63	1007	3W'D-5N'1A	Y	Y	Y
AI-133B	20	64	1007	3W'D-26N'1A	Y	Y	Y
AI-146	20	63	1014	AI-146		Y	
AI-147	20	64	1014	AI-147		Y	
AI-179	20	57	1013	19W'D-18N'4A	Y	Y	Y
AI-184	20	77	1036	25W'C-0N'9			
AI-185	20	57	1013	19W'D-15N'4A	Y	Y	Y
AI-196	20	57	1013	19W'D-15N'3A	Y	Y	Y
AI-197	20	56	1011	0W'D-0N'7A	Y	Y	Y
AI-198	20	57	1013	19W'D-17N'3A		Y	Y
AI-199	20	56	1011	0W'D-12N'6D		Y	Y
AI-207	20	TURB	1039	0W'B-0N'5		Y	
AI-208A	20	77	1036	7W'6D-0N'D	Y		
AI-208B	20	77	1036	7W'6D-8N'D	Y		
AI-21	20	77	1036	6W'D-2N'8A		Y	
AI-212	20	57	1013	19W'D-20N'4A	Y		
AI-214	20	20	994	26W'D-5N'2B	Y		
AI-215	20	20	994	26W'D-5N'2B	Y		
AI-22	20	77	1036	6W'D-4N'8A		Y	Y
AI-224A	20	72	1036	8W'J1-21N'7A		Y	Y
AI-224B	20	72	1036	8W'J1-3N'7A		Y	Y
AI-23	20	77	1036	6W'D-6N'8A		Y	
AI-23A	20	77	1036	6W'D-25N'7A		Y	Y
AI-24	20	77	1036	6W'D-8N'8A		Y	Y
AI-24A	20	77	1036	6W'D-25N'7A		Y	Y
AI-25	20	77	1036	6W'D-10N'8A		Y	Y
AI-25A	20	77	1036	6W'D-25N'7A		Y	Y
AI-26	20	77	1036	6W'D-12N'8A		Y	
AI-26A	20	77	1036	6W'D-25N'7A		Y	Y
AI-3	20	77	1036	2W'E-0N'7A		Y	Y
AI-30A(D1)	20	77	1036	4W'C-22N'7A		Y	Y

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	
AI-30A(ESF)	20	77	1036	4W'C-22N'7A		Y	Y
AI-30A(S1-1)	20	77	1036	4W'C-22N'7A		Y	Y
AI-30A(S1-2)	20	77	1036	4W'C-22N'7A		Y	Y
AI-30B(D2)	20	77	1036	4W'C-18N'7A		Y	Y
AI-30B(ESF)	20	77	1036	4W'C-18N'7A		Y	Y
AI-30B(S2-1)	20	77	1036	4W'C-18N'7A		Y	Y
AI-30B(S2-2)	20	77	1036	4W'C-18N'7A		Y	Y
AI-31A	20	77	1036	4W'C-10N'7A .		Y	Y
AI-31B	20	77	1036	4W'C-7N'7A		Y	Y
AI-31C	20	77	1036	4W'C-4N'7A		Y	Y
AI-31D	20	77	1036	4W'C-2N'7A		Y	Y
A!-31E	20	77	1036	4W'C-0N'7A		Y	
AI-33A	20	77	1036	4W'C-12N'6D		Y	Y
AI-33B	20	77	1036	4W'C-10N'6D		Y	Y
AI-34	20	77	1036	AI-34		Y	Y
AI-35	20	77	1036	AI-35		Y	Y
AI-40A	20	77	1036	15W'D-11N'6D	Y		
AI-40B	20	77	1036	15N'D-5N'7A	Y		
AI-40C	20	77	1036	15W'D-4N'8A	Y		
AI-40D	20	77	1036	15W'D-10N'8A	Y		
AI-41A	20	77	1036	15W'D-0N'7A	Y		
AI-41B	20	77	1036	15W'D-8N'8A	Y		
AI-42A	20	77	1036	15W'D-2N'7A	Y		
A1-42B	20	77	1036	15W'D-6N'8A	Y		
AI-43A	20	77	1036	4W'C-8N'8A		Y	Y
AI-43B	20	77	1036	4W'C-6N'8A		Y	Y
AI-44	20	77	1036	15W'D-0N'8A		Y	Y
AI-45	20	77	1036	15W'D-7N'7A	Y	Y	Y
AI-4A	20	77	1036	18W'C-12N'6D	Y	Y	Y
AI-4A	20	77	1036	18W'C-12N'6D		Y	Y
AI-4B	20	77	1036	20W'C-12N'6D	Y	Y	Y
AI-4B	20	77	1036	20W'C-12N'6D		Y	Y
AI-4C	20	77	1036	16W'C-12N'6D		Y	Y
AI-54B	20	77	1036	2W'E-20N'7A		Y	Y
AI-56	20	77	1036	2W'E-10N'7A		Y	Y
AI-66A	20	77	1036	17W'C-14N'8A	Y	Y	Y
AI-66B	20	77	1036	14W'C-14N'8A	Y	Y	Y
ATA-DI	20	63	1013	2WD0N1A	Y	Y	Y
ATA-D2	20	64	1013	3WD0N2A	Y	Y	Y
ATD-D1	20	63	1013	7WD12N1A	Y	Y	
ATD-D2	20	64	1013	8WD0N2A	Y	Y	
B/LT-911	18	CONT	1011	15WCC3NI	Y		
B/LT-912	18	CONT	1002	14WCC8NIV	Y		

вох	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL
B/PC-742-1	3	59	1012	16W'N-14N'6D		Y	Y
B/PC-742-2	3	59	1012	14W'N-14N'6D		Y	Y
B/PT-120	18	CONT	1019	15WCC4NI	Y		
B/PT-913	18	CONT	1011	15WCC3NI	Y		
B/PT-914	18	CONT	1002	14WCC8NIV	Y		
B/TE-112C	19	CONT	1008	20WCC26NII	Y		
B/TE-112H	19	CONT	1008	24WBB24NII	Y		
B/TE-122C	19	CONT	1008	03WBB21NIII	Y		
B/TE-122H	19	CONT	1008	2WCC18NIII	Y		
C/PC-742-1	3	59	1012	6W'P-14N'6D		Y	Y
C/PC-742-2	3	59	1012	4W'P-14N'6D		Y	Y
CB-1,2,3	20	77	1036	18W'C-1N'7A	Y	Y	Y
CB-10,11	20	77	1036	2W'D-18N'7A	Y	Y	Y
CB-10,11 AUX	7	77	1036	CB-10,11 AUX		Y	Y
CB-4	20	77	1036	0W'D-4N'7A	Y	Y	Y
CB-4 AUX	20	77	1036	0W'D-4N'7A	Y	Y	Y
CH-11A	21	26	1013	28EU9S7A	Y		
CH-11B	21	26	1013	42EU9S7A	Y		
CH-1A	5	6	0991	05EU04N6E	Y		
CH-1B	5	6	0991	34WT6N6E	Y		
CH-1C	5	6	0991	17WT7N6E	Y		
CH-22A	21	6	0993	51WT11N6E	Y		
CH-22B	21	6	0993	36WT11N6E	Y		
CH-22C	21	6	0993	18WT10N6E	Y		
CH-26A	21	6	0993	48WT11N6E	Y		
CH-26B	21	6	0993	33WT11N6E	Y		
CH-26C	21	6	0993	16WT10N6E	Y		
CH-6	21	CONT	0994	13WEE-16NIII	Y		
CH-7	21	12	0992	6E'Q-0S'6E	Y		
D/PC-742-1	3	59	1012	8W'N-16N'6D		Y	Y
D/PC-742-2	3	59	1012	6W'P-14N'6D		Y	Y
DI	20	63	1010	2E'K-5N'1A	Y	Y	Y
D2	20	64	1010	2E'K-22N'1A	Y	Y	Y
DG-1	17	63	1010	03EF-08N1A	Y	Y	Y
DG-2	17	64	1010	03EF-07S2B	Y	Y	Y
DW-46A-2	10	69	1025	39WT-6N'6A	Y		
DW-46B-2	10	69	1025	39W'T-6N'6C	Y		
EE-17	20	TURB	1036			Y	
EE-4N	4	56	1011	6WC8N6D	Y		
EE-4P	4	56	1011	20WC5N6D	Y		
EE-4Q	4	56	1011	6WC5N6D	Y		
EE-4R	4	56	1011	20WC3N6D	Y		
EE-4S	4	56	1011	0WC11N6D	Y		

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL ERL	
EE-4T	4	56	1011	0WD3N6D	Y		
EE-8A	15	54	1012	9WC15N7B	Y		
EE-8B	15	55	1012	0WD12N7B	Y		
EE-8C	16	56	1011	9WC13N6D	Y		
EE-8D	16	56	1011	16WC14N6D	Y		
EE-8E	16	56	1011	0WD0N7A	Y		
EE-8F	14	56	1011	9W'C-0N'7A	Y		
EE-8G	14	56	1011	16W'C-0N'7A	Y		
EE-8H	16	56	1011	7WC6N6D	Y		
EE-8J	16	56	1011	18WC9N6D	Y		
EE-8K	16	56	1011	6WC5N6D	Y		
EE-8L	16	56	1011	18WC6N6D	Y		
EE-8P	16	56	1011	IWC20N6D	Y		
EE-8Q	16	56	1011	18WC2N6D	Y		
FCV-1368	7	19	0993	07WC18N3A	Y		
FCV-1369	7	19	0991	03WC7N3AA	Y		
FCV-269	7	26	1011	51W"T-8N'6E	Y		
FE-1368	18	19	0996	3WC0N4A	Y		
FE-1369	18	19	0996	3WC14N3A	Y		
FIA-2510	7	60	1012	19W'P-30N'5D		Y	
FIA-2511	7	60	1012	19W'P-30N'5D		Y	
FO-1	21	OTDR	0995	29EM-30S1A	Y		
FO-2-1	21	63	1017	07EK-14N1A	Y		
FO-2-2	21	64	1017	07EK-01S2B	Y		
FT-1368	18	19	0993	01WC04S4A	Y		
FT-1369	18	19	0993	01WC05S4A	Y		
FW-10	5	19	0991	03WC-1N3A	Y		
FW-19	21	81	1045	12WC3N3A	Y		
FW-6	5	19	0992	04WC-5S4A	Y		
FW-654	0	81	1041	10ED5S4A	Y		
GE/MAC	20	77	1036	GE/MAC	Y		
GM-1	20	77	1036	22W'C-12N'6D	Y	Y	
GM-2	20	77	1036	14W'C-12N'6D	Y	Y	
HCV-1041A	7	81	1040	10WD-3N4A	Y		
HCV-1041B	7	81	1040	10WD7N4A	Y		
HCV-1041C	8A	81	1042	12WD06N4A	Y		
HCV-1042A	7	81	1040	15WD19N4A	Y		
HCV-1042B	7	81	1040	15WD19N4A	Y		
HCV-1042C	8A	81	1042	10EG-20N4A	Y		
HCV-1107A	7	CONT	1050	15WBB09NII	Y		
HCV-1107B	7	81	1038	00WH-4N3A	Y		
HCV-1108A	7	CONT	1050	14WBB-31NIII	Y		
HCV-1108B	7	81	1038	02EJ-0N5B	Y		

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL
HCV-1384	8A	81	1039	22ED-21N5B	Y		
HCV-1385	8A	81	1038	20WD20N4A	Y		
HCV-1386	8A	81	1038	9EG-15S4A	Y		
HCV-1387A	7	CONT	0998	13WBB07NIV	Y		
HCV-1387B	7	13	0992	4WN2N6B	Y		
HCV-1388A	7	CONT	0998	24WAA0NIV	Y		
HCV-1388B	7	13	0991	08EN01S6B	Y		
HCV-150	8A	CONT	1047	04WDD10NII	Y		
HCV-151	8A	CONT	1047	21WCC08NII	Y		
HCV-238	7	CONT	0999	06WBB25NII	Y		
HCV-239	7	CONT	1000	24WCC-24NIII	Y		
HCV-240	7	CONT	1045	14WDD06NII	Y		
HCV-247	8B	CONT	1002	07WBB26NII	Y	Y	
HCV-248	8B	CONT	1000	16WCC09NII	Y	Y	
HCV-249	7	CONT	1045	18WDD12NII	Y		
HCV-2504A	7	CONT	1018	6W'EE-0N'IV	Y		
HCV-2506A	7	CONT	1016	16WBB-17NII	Y		
HCV-2507A	7	CONT	1018	27WBB-35NIII	Y		
HCV-257	7	26	1014	12W'T-8N'6E	Y		
HCV-258	8A	26	1010	12WT6N6E	Y		
HCV-264	7	26	1011	30E'U-9N'6E	Y		
HCV-265	8A	26	1010	30EU7N6E	Y		
HCV-2805A	8B	INTK	997	7W'BB-4N'102	Y	Y	
HCV-2805B	8B	INTK	995	3E'CC-5S'105	Y	Y	
HCV-2850	7	INTK	1000	6ECC6S103	Y		
HCV-2851	7	INTK	1000	6E'CC-6N'103	Y		
HCV-2852	7	INTK	1000	6E'CC-6S'104	Y		
HCV-2853	7	INTK	1000	6ECC6N104	Y		
HCV-2859	7	CONT	1016	15WAA6NIII	Y		
HCV-2861	7	109	1007	1W'SA-24N'7	Y		
HCV-2874A	7	INTK	1001	6E'CC-4S'103	Y		
HCV-2874B	7	INTK	1002	6E'CC-4N'103	Y		
HCV-2875A	7	INTK	1001	6E'CC-7N'103	Y		
HCV-2875B	7	INTK	1001	6E'CC-8S'104	Y		
HCV-2876A	7	INTK	1001	6E'CC-4S'104	Y		
HCV-2876B	7	INTK	1001	12WBB-4N104	Y		
HCV-2877A	7	18	0993	13ED12S6D	Y		
HCV-2877B	7	18	0993	13ED08S6D	Y		
HCV-2878A	7	18	0993	13ED04S6D	Y		
HCV-2878B	7	18	0993	13ED03S6D	Y		
HCV-2879A	7	18	0993	13ED04N6D	Y		
HCV-2879B	7	18	0993	13ED06N6D	Y		
HCV-2880A	7	18	0994	13ED06S6D	Y		

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL ARL ERL
HCV-2880B	7	4	0991	07WD04N5B	Y
HCV-2881A	7	18	0994	13ED01N6D	Y
HCV-2881B	7	4	1003	07WD04N5B	Y
HCV-2882A	7	18	0994	08ED09N4A	Y
HCV-2882B	7	18	0999	04ED09N5B	Y
HCV-2883A	7	18	0994	08ED07S7A	Y
HCV-2883B	7.	18	0999	04ED16S6D	Y
HCV-2898A	7	81	1037	7WJ14N6	Y
HCV-2898B	7	81	1037	9WJ15N6	Y
HCV-2899A	7	81	1037	6WG14N6	Y
HCV-2899B	7	81	1037	6WG15N6	Y
HCV-400A	7	69	1027	08WN06N6B	Y
HCV-400B	7	69	1030	09EP08N6C	Y
HCV-400C	7	69	1027	08WP03N6C	Y
HCV-400D	7	69	1031	09WP10N6C	Y
HCV-401A	7	69	1027	07EP03N6C	Y
HCV-401B	7	69	1030	07EP08N6C	Y
HCV-401C	7	69	1027	10WP5N6C	Y
HCV-401D	7	69	1031	10WP12N6C	Y
HCV-402A	7	69	1027	03EP03N6C	Y
HCV-402B	7	69	1030	03EP08N6C	Y
HCV-402C	7	69	1027	06WP5N6C	Y
HCV-402D	7	69	1031	05WP10N6C	Y
HCV-403A	7	69	1027	0WP3N6C	Y
HCV-403B	7	69	1030	01EP08N6C	Y
HCV-403C	7	69	1027	02WP03N6C	Y
HCV-403D	7	69	1031	01WP08S7A	Y
HCV-438A	7	CONT	0994	8WBB37NIII	Y
HCV-438B	7	13	0992	9WN3N6C	Y
HCV-438C	7	CONT	0994	6WCC0NIV	Y
HCV-438D	7	13	0992	12WN3N6C	Y
HCV-442	7	CONT	0995	01WBB10NII	Y
HCV-443	7	CONT	0995	00WBB15NII	Y
HCV-444	7	CONT	0995	OWCCONIV	Y
HCV-445	7	CONT	0995	15WBBONIV	Y
HCV-489A	7	4	0995	10WD11N5B	Y
HCV-489B	7	4	0992	10WD1N6D	Y
HCV-490A	7	4	1005	9WD13N5B	Y
HCV-490B	7	4	1003	10WD2N6D	Y
HCV-491A	7	18	0992	06ED06N5B	Y
HCV-491B	7	18	0992	08ED10S5B	Y
HCV-492A	7	18	0992	08ED17S6D	Y
HCV-492B	7	18	0992	08ED01N6D	Y

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL	
HCV-497	7	4	0991	2E'E-8S'7A	Y			
HCV-724A	7	CONT	1063	18W'AA-13N'II	Y			
HCV-725A	7	CONT	1063	18W'AA-29N'III	Y			
HCV-921	7	81	1043	13W'D-0N'4A	Y			
HCV-922	7	18	1043	13W'D-0N'4A	Y			
ISV-1	7	TURB	1039	0WTC-9N'4		Y		
ISV-2	7	TURB	1039	0WTC-10S'6		Y		
ISV-3	7	TURB	1039	0W'TE-10S'6		Y		
ISV-4	7	TURB	1039	0W'TE-9N'4		Y		
IV-I	7	TURB	1036	0WTC-9N'4		Y		
IV-2	7	TURB	1036	0WTC-10S'6		Y		
IV-3	7	TURB	1036	0W"TE-10S'6		Y		
IV-4	7	TURB	1036	OW'TE-9N'4		Y		
LCS-218	8A	29	1019	43W'T-12N'7A		Y		
LCV-101-1	7	CONT	0997	9WEE-17NIII	Y			
LCV-101-2	7	CONT	0997	10WEE-20NIII	Y			
LCV-218-2	8A	29	1010	43WT24N7A	Y			
LCV-218-3	8A	7	0992	45WT02N7B	Y			
LO-56	21	19	0990	5WC5N3A	Y			
LS-2898	7	72	1036	13W'J1-5N'7A		Y		
LS-2899	7	72	1036	13W'J1-6N'6D		Y		
LT-101X	18	CONT	1013	15WCC3NI	Y			
LT-101Y	18	CONT	1013	18WDD14NII	Y			
LT-1183	18	81 -	1039	18WC13N3A	Y			
LT-1188	18	81	1038	18S3A-7ED	Y			
MCC-3A1	1	57	1013	02WD14N4A	Y	Y	Y	
MCC-3A2	1	4	0989	01WQ05S7A	Y	Y	Y	
MCC-3B1	-1	57	1013	02WD05S4A	Y	Y	Y	
MCC-3B3		INTK	1007	10W'CC-3N'101	Y	Y	Y	
MCC-3C1	1	57	1013	02WD10N3A	Y	Y	Y	
MCC-3C2	1	26	1007	0WQ8N7A	Y	Y		
MCC-4A1	1	57	1013	10WD14N4A	Y	Y	Y	
MCC-4A2	1	26	1007	05EQC8N7A	Y	Y		
MCC-4B1	1	57	1013	10W'D-0N'4A	Y	Y	Y	
MCC-4C1	1	57	1013	10WD10N3A	Y	Y	Y	
MCC-4C4	1	INTK	1007	0W'CC-3N'101	Y	Y	Y	
MS-275	7	81	1039	05EG-6S4A	Y			
MS-276	7	81	1039	7EG-06S4A	Y			
MS-277	7	81	1040	10WD-0N4A	Y			
MS-278	7	81	1040	10WD-2N4A	Y			
MS-279	7	81	1038	19WD5N4A	Y			
MS-280	7	81	1038	18WD05N04A	Y			
MS-281	7	81	1038	10EG-12N4A	Y			

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL
MS-282	7	81	1038	10EG-14N4A	Y		
MS-291	7	81	1039	19WD24N3A	Y		
MS-292	7	81	1038	10EG-10N4A	Y		
NE-001	0	CONT	1000	18WBB0NIII	Y		
NE-004	0	CONT	1000	18WBB0NIII	Y		
NM-004	20	37	1018	24WD17N4A	Y		
NT-001	20	20	1005	8WG28N4A	Y		
NT-004	20	57	1018	3WF16N4A .	Y		
PCS-224	2	6	993	50W'T-8N'6E		Y	Y
PCS-226	2	6	992	44W'T-1N'6E		Y	Y
PCS-227	2	6	992	35W'T-10N'6E		Y	Y
PCS-229	2	6	992	32W'T-1N'6E		Y	Y
PCS-230	2	6	993	18WT-9N'6D		Y	Y
PCS-232	2	6	992	12W'T-1N'6E		Y	Y
PCS-412	7	69	1026	0W'N-0N'7A		Y	Y
PCS-413	7	69	1026	0W'N-0N'7A		Y	Y
PCV-102-1	8B	CONT	1047	21WCC09NII	Y		
PCV-102-2	8B	CONT	1047	4WDD09NII	Y		
PCV-840A-1	7	72	1047	8W'J1-15N'7A	Y		
PCV-840A-1	7	72	1047	8W'J1-11N'7A	Y		
PCV-840B	7	72	1050	12W'J1-12N'7A	Y		
PCV-841A-1	7	72	1047	8W'J1-14N'6D	Y		
PCV-841A-1	7	72	1047	8W'J1-10N'6D	Y		
PCV-841B	7	72	1050	12W'J1-14N'6D	Y		
PI-2854-1	18	INTK	998	15WBB12N102	Y		
PI-2855-1	18	INTK	998	16WBB10N103	Y		
PI-2856-1	18	INTK	998	16WBB11N103	Y		
PI-2857-1	18	INTK	998	17WBB8N104	Y		
PS-1107B	7	81	1041	3E'H-5N'3A		Y	
PS-1108B	7	81	1041	3E'J-1S'5B		Y	
PT-105	18	CONT	1003	14WCC2NI	Y		
PT-115	18	CONT	1013	15WCC3NI	Y		
PT-499	18	69	1029	IWN-0N8A	Y		
RB-D1	20	63	1007	4E'K-0N'1A		Y	
RB-D2	20	64	1007	4E'K-17N'1A		Y	
RC-141	7	CONT	1049	09WDD22NII	Y		
RC-142	7	CONT	1049	02WDD22NII	Y		
RC-4	21	CONT	1020	6W'DD-19N'II	Y		
RC-4	21	CONT	1020	6W'DD-19N'II	Y		
RC-4	21	CONT	1020	6W'DD-19N'II	Y		
SA-3A-1	21	63	1025	16WD16N1A	Y		
SA-3A-2	21	64	1027	03EF-02S2B	Y		
SA-3B-1	21	63	1029	16WD16N1A	Y		

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL	
SA-3B-2	21	64	1032	03EF-02S2B	Y			
SA-4A-1	21	63	1029	OWF16N1A	Y			
SA-4A-2	21	64	1027	04WF-02S2B	Y			
SA-4B-1	21	63	1025	OWF16N1A	Y			
SA-4B-2	21	64	1032	04WF-02S2B	Y			
SI-1A	10	21	0972	45W'T-6N'6E	Y			
SI-1B	10	22	0972	1WT-15S'8A	Y			
SI-2A	10	21	0972	44W"T-18N'6E	Y			
SI-2B	10	22	0972	0E'T-6S'8A	Y			
SI-2C	10	21	0972	10E'U-6S'8A	Y			
SI-3A	10	21	0972	46W'T-16N'5D	Y			
SI-3B	10	22	0972	1WT-1N'6C	Y			
SI-3C	10	22	0972	1W'T-3N'6E	Y			
SI-4A	10	CONT	1020	15WDD-20NII	Y			
SI-4B	10	CONT	1014	6W'BB-30N'II	Y			
SI-4C	10	CONT	1013	14WEE-12NIII	Y			
SI-4D	10	CONT	1014	8WBB-12NIII	Y			
SI-5	21	2	0989	SW AUX	Y			
SL-3	21	60	1010	34W'P-6N'5D	Y			
SL-51	10	60	1007	23W'P-0N'6E	Y			
SL-8A	21	60	1011	19W'P-14N'5D	Y			
SL-8B	21	60	1012	19W'P-12N'5D	Y			
SV-1	7	TURB	1026	5WTC1-5N'8		Y		
SV-2	7	TURB	1026	10WTC1-5N'8		Y		
SV-3	7	TURB	1026	15WfTC1-5N'8		Y		
SV-4	7	TURB	1026	20WTC1-5N'8		Y		
TIA-3	4	OTDR	1004	SOUTH TURB		Y		
TIA-4	4	OTDR	1004	SOUTH TURB		Y		
TIB-3A	4	56	1011	7WC0N6D	Y			
T1B-3B	4	56	1011	7WC0N5B	Y			
T1B-3C	4	56	1011	7WC17N4A	Y			
T1B-4A	4	56	1011	20WC30N5B	Y			
TIB-4B	4	56	1011	20WC0N5B	Y			
TIB-4C	4	56	1011	20WC14N4A	Y			
TIC-3A	1	56	1011	T1C-3A	Y			
TC-858A	7	63	1011	7W'D-12N'1A		Y		
TC-858B	7	64	1011	7W'D-21N'1A		Y		
TCV-202	7	CONT	0998	8WCC-24NIII	Y			
TCV-893	84	72	1037	8WJ112N7A	Y			
TCV-894	δA	72	1037	8WJ111N6D	Y			
VA-14A	10	CONT	0994	19WAA-33NII	Y			
VA-14B	10	CONT	0994	15WAA-14NIII	Y			
VA-3A	9	CONT	1060	18WAA39NII	Y			

ATTACHMENT E

BOX	SQUG_CLASS	ROOM	ELEV	LOCATION	SSEL	ARL	ERL
VA-3B	9	CONT	1060	18V/AA3NIII	Y		
VA-46A	10	72	1036	8WJ1-12N7A	Y	Y	Y
VA-46B	10	72	1036	8WJ1-11N6D	Y	Y	Y
WD-28A	21	16	0993	7E'L-22S'9	Y		
WD-28B	21	16	0993	7E'L-105'9	Y		
WD-930	7	30	1008	22WT-14N'7A		Y	
WD-931	7	30	1009	26WT-9S'8A		Y	
WD-934	7	30	1018	23WT-16N'7A		Y	
WD-935	7	30	1009	23WT-16N'7A		Y	
WD-941	7	30	1012	21WT-16N'7A		Y	
WD-942	7	30	1009	19WT-15N'7A		Y	
YCV-1045	7	19	0996	06WC01N3A	Y		
YCV-1045A	7	81	1044	03WD-2S4A	Y		
YCV-1045B	7	81	1042	11EG-17N4A	Y		
YCV-871A	7	65	1042	11W'D-9N'1A	Y		
YCV-871B	7	65	1042	11W'M-4N'1A	Y		
YCV-871C	7	65	1042	11W'M-24N'1A	Y		
YCV-871D	7	65	1042	11W'M-17N'1A	Y		
YCV-871E	7	63	1011	19W'K-2N'1A	Y		
YCV-871F	7	64	1030	19W'K-17N'1A	Y		
YCV-871G	7	MISL	1024	10W'F-11S'1A	Y		
YCV-871H	7	MISL	1024	10W'K-11S'1A	Y		
YIT-6286A	7	77	1040	4W'E-0N'6D		Y	Y
YIT-62863	7	77	1040	10W'D-0N'6D		Y	Y
YIT-6288A	7	77	1040	2W'E-0N'6D		Y	Y
YIT-6288B	7	77	1040	12W'D-0N'6D		Y	Y
YT-6048	3	63	1014	2E'K-5N'1A		Y	Y
YT-6148	3	64	1014	2E'K-10S'2B		Y	Y