

**Generic Letter 87-02
USNRC USI A-46 Resolution**

**Seismic Evaluation Report
Seismic Qualification Utility Group (SQUG)
Dresden Nuclear Station Units 2 and 3**

Prepared for

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APPENDIX I: OUTLIER RESOLUTION TRACKING SHEETS

List of Acronyms

CEA	Concrete Expansion Anchor
CLASS 1	Structures and Equipment of which a failure thereof could cause significant release of radioactivity or are vital to a safe plant shutdown.
ComEd	ComEd (A Unicom Company)
DNPS	Dresden Nuclear Power Station
EPRI	Electric Power Research Institute
GERS	Generic Equipment Ruggedness Spectra
GIP	Generic Implementation Procedure for the Seismic Verification of Nuclear Station Equipment
GL	Generic Letter
GRS	Ground Response Spectrum
IAEA	International Atomic Energy Agency
IPEEE	Individual Plant Examination for External Events
ISRS	In-structure Response Spectra
LAR	Limited Analytical Review
MCC	Motor Control Center
OSVS	Outlier Seismic Verification Sheet
PASS	Plant Area Summary Sheet
PSD	Power Spectral Density
S&A	Stevenson & Associates
SCE	Seismic Capability Engineer
SEWS	Screening Evaluation Work Sheet
SQUG	Seismic Qualification Utility Group
SRT	Seismic Review Team
SSE	Safe Shutdown Earthquake
SSEL	Safe Shutdown Equipment List
SSER	Supplemental Safety Evaluation Report
SVDS	Screening Verification Data Sheet
USI	Unresolved Safety Issue
NRC	Nuclear Regulatory Commission
ZPA	Zero Period Acceleration

1. Introduction and Seismic Verification Methodology

Executive Summary

The seismic adequacy evaluations have been completed for Equipment, Tanks, Heat Exchangers, and Cable and Conduit Raceways associated with the resolution of Unresolved Safety Issue USI A-46. The evaluations were performed in accordance with the Seismic Qualification Utility Group (SQUG) Methodology using the SQUG Generic Implementation Procedures (GIP) [2]. The following summarizes the results of these evaluations.

A total of 428 Equipment Items, including Tanks and Heat exchangers, were seismically evaluated. Of this population, one hundred twelve (112) items were declared equipment outliers. Some equipment had more than one outlier issue associated with it, therefore the actual number of outlier *issues* to be resolved totals one hundred sixty four (164). Of these 164 issues sixty three (63) have been resolved. The resolved outliers consisted of housekeeping and maintenance type issues.

All Cable Tray and Conduit Raceways in areas containing Safe Shutdown Equipment were walked down and checked against the Inclusion Rules and other Seismic Performance Concerns as specified in the GIP [2]. A total of ten (10) outliers resulted from the cable and conduit raceway reviews. Of the 10 outliers, five (5) have been resolved analytically.

All remaining outliers have been assigned Nuclear Tracking System (NTS) numbers, (Appendix I), and will be completed within two (2) refueling outages per unit following receipt of the Nuclear Regulatory Commission's Safety Evaluation Report (SER) on the USI A-46 submittal.

Introduction

This report provides the final documentation of the seismic adequacy evaluations performed at ComEd's Dresden Nuclear Power Station (DNPS), Units 2 and 3, for the resolution of Unresolved Safety Issue (USI) A-46, "Seismic Qualification of Equipment in Operating Plants". USI A-46 was issued by the United States Nuclear Regulatory Commission (NRC) in December, 1980 to address the concern with the seismic adequacy of mechanical and electrical equipment in older nuclear power plants. This report describes the methodology used for and the results of the seismic reviews of active mechanical and electrical equipment, selected tanks and heat exchangers, and cable and conduit raceways.

Seismic Verification Methodology

In response to USI A-46, affected Utilities formed the Seismic Qualification Utility Group (SQUG) in 1982 to develop a consistent industry approach for resolving USI A-46. SQUG utilities along with the technical and financial assistance of the Electric Power Research Institute (EPRI) conducted research and studies regarding this issue in order to formulate a thorough and reasoned program to resolve the identified concern. In February, 1987, the NRC issued Generic Letter 87-02, "Verification of Seismic

Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46," requesting USI A-46 licensees to commit to a detailed approach for resolving USI A-46 [1].

Subsequently, further research conducted by SQUG (and its contractors) and reviewed by the NRC staff resulted in a detailed procedure developed by SQUG called the "Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Station Equipment" [2]. Specifically, the NRC staff reviewed Revision 2 of the GIP and accepted (with provisos) the approach in *Supplement No. 1 to Generic Letter (GL) 87-02 that Transmits Supplemental Safety Evaluation Report No. 2 (SSER #2) on SQUG Generic Implementation Procedure, Revision 2 as Corrected on February 14, 1992 (GIP-2)* [3]. This GIP version and the clarifications, guidance and additional requirements provided by the NRC in SSER #2 are the basis for the seismic evaluation of mechanical and electrical equipment at Dresden for resolution of USI A-46. The GIP Revision 2 referred to as GIP-2 by the NRC is referred to as the GIP in this report.

Separate, but related issues pertaining to methods of analysis for above-ground flexible tanks identified in USI A-40, "Seismic Design Criteria" [4], and seismic adequacy of proximity items above and around important-to-safety equipment identified in USI A-17 [5] are explicitly addressed and resolved by implementation of the GIP.

The GIP approach relies on developing a Safe Shutdown Equipment List (SSEL) which identifies equipment needed to achieve and maintain safe hot shutdown conditions as defined by a nuclear power plant's Technical Specifications. This equipment is then seismically reviewed in accordance with the GIP methodology. An assessment can be made concerning the seismic adequacy of each equipment item on the SSEL by observation and evaluation during plant walkdowns. By evaluating seismic demand criteria, selected caveats to ensure similarity to the GIP equipment classes, an anchorage evaluation, and a seismic interaction proximity assessment, the trained walkdown engineer can be satisfied that the equipment will survive the plant's design basis seismic event. The basis for this approach is rooted in detailed observations of representative, if not identical, equipment in industrial facilities that have survived earthquakes of similar or greater magnitude in California and throughout seismically active regions around the world, and also through shake table tests which have been performed since the mid-1970's to qualify safety-related equipment for licensing of nuclear power plants. Each equipment assessment is documented on a Screening Evaluation Work Sheet (SEWS). Any deficiencies are documented on an Outlier Seismic Verification Sheet(s) (OSVS).

Report Organization

Section 2 of this report discusses the development of the safe shutdown path and the resulting Safe Shutdown Equipment List (SSEL) for Dresden. The seismic design basis of Dresden and the assessment of it by the NRC are discussed in Section 3. The Dresden equipment walkdown results are provided in Section 4. SSER #2 requires explicit documentation of any deviations from the caveats or their intent in the GIP. Section 5 provides a detailed listing of GIP deviations for assessment of some equipment. Section 6 discusses the results of the Tanks & Heat Exchangers

assessment. Cable Tray & Conduit Raceway assessments are provided in Section 7. Section 8 provides a listing of identified outliers, the reasons for which they are outliers, and their proposed resolution. Section 9 provides a listing of references.

The following Appendices are provided in Section 10 of this report:

- Appendix A1: Composite Safe Shutdown Equipment List**
- A2: Seismic Review Safe Shutdown List**
- Appendix B: Seismic Design Basis Spectra**
- Appendix C: Walkdown Personnel Resumes**
- Appendix D: Screening Verification Data Sheets (SVDS)**
- Appendix E: Peer Review Assessment**
- Appendix F: Anchor Bolt Tightness and Embedment Checks**
- Appendix G: Operations Review / Operating Procedures**
- Appendix H: Peer Review of Safe Shutdown Systems**
- Appendix I: Outlier Resolution Tracking Sheets**

2. Dresden Safe Shutdown Path

Introduction

The composite Seismic Qualification Utility Group (SQUG) Safe Shutdown Equipment List (SSEL) contains all mechanical and electrical equipment (excluding relays) needed to achieve and maintain safe shutdown conditions at Dresden station. The equipment listed contains those components that are needed to support the SQUG Safe Shutdown Functions. The equipment was chosen based on the requirements defined in Section 3 of the SQUG GIP (Generic Implementation Procedure), Rev. 02-corrected 2/14/92 and the NRC's SSER No. 2.

Components have been identified that are in the primary and backup safe shutdown paths and have been grouped together by both function and system. Components have also been listed in the order of the flowpath. The primary and backup safe shutdown paths are identified in the color-coded P&IDs on file with ComEd.

Purpose

The purpose of the Seismic Qualification Utility Group (SQUG) Safe Shutdown Equipment List (SSEL) is to identify all mechanical and electrical equipment (excluding relays) that is needed to achieve and maintain safe shutdown conditions at Dresden station. Based upon a review of the Dresden station operating procedures, the Dresden Station Operations Department has chosen the systems to be utilized for the primary and backup safe shutdown paths to accomplish the safe shutdown functions identified in the SQUG GIP. This list was generated to identify those components that are part of these systems as well as those components that are needed for support of the systems. This list contains essential information related to the safe shutdown function of these components.

Basis For Selection

Dresden Station has elected to use the Seismic Qualification Utility Group (SQUG) Generic Implementation Procedure (GIP) to select and evaluate the seismic adequacy of the mechanical and electrical equipment needed to bring the station to a safe shutdown condition following a safe shutdown earthquake. Per section 3.3.3 of the GIP, "safe shutdown is defined as bringing the plant to a hot shutdown condition and maintaining it there for a minimum of 72 hours following an earthquake. Some plants may not have sufficient water inventory to stay in hot shutdown for three days, while other plants may prefer to be brought to a cold shutdown condition during this period of time instead of staying in the hot shutdown condition."

The four safe shutdown functions that must be accomplished to achieve hot safe shutdown are as follows.

1. Reactor Reactivity Control
2. Reactor Coolant Pressure Control
3. Reactor Coolant Inventory Control
4. Decay Heat Removal

The systems/ functional paths chosen are to meet the following criteria.

1. Achieve and maintain the plant in a hot shutdown condition within 72 hours following the SSE.
2. A LOOP is considered to have occurred coincident with the SSE and lasts for the first 72 hours.
3. No other design basis event is considered to occur other than the SSE.

REACTOR REACTIVITY CONTROL

To achieve reactor reactivity control under this safe shutdown path, the Control Rod Drive (CRD) System was chosen. This system was chosen for the following reasons:

- The CRD System is a safety-related system.
- The control rods are designed to be driven in automatically upon a loss of power.
- The CRD System will actuate automatically.
- The CRD System is designed to fail in the safe position, that is, with the control rods in the fully inserted position.
- The CRD System is a Class I system.
- The CRD System major equipment is located in the Reactor Building on elevation 517' 6".
- No major support systems are required for CRD system operation.

The CRD System is used as both the primary and backup system for the Reactor Reactivity Control function. This is because each of the 177 hydraulic control units (HCUs) per unit are completely separate and independent. Therefore, the system is designed to accommodate a single failure, and still accomplish safe shutdown.

REACTOR COOLANT PRESSURE CONTROL

To achieve reactor coolant pressure control under this safe shutdown path, the Target Rock Safety Relief Valve and the 4 Electromatic Relief Valves (ERVs) were chosen as the primary path. These valves are sized to rapidly remove steam generated from the reactor upon closure of the turbine stop valves and coincident with failure of the turbine bypass system. The blowdown from each relief valve is routed through a separate line to a point below the torus water line. The ERVs require control power from the 125 V Direct Current system. The Target Rock Safety Relief Valve requires the support of the Drywell Pneumatic System while in the Relief Mode, but does not require any support systems while in the Safety Mode. The backup system for this function is the reactor safety valves. These valves are sized to protect the pressure vessel against overpressurization during a failure of the reactor relief valves. These valves are balanced, spring-loaded-type safety valves which discharge directly to the drywell airspace.

The advantages of these relief and safety valves are as follows:

- These valves are part of a safety-related system.
- These valves will actuate automatically.
- These valves are part of a Class I system.
- These valves are located on the second floor of the drywell (elevation 537' 0").

REACTOR COOLANT INVENTORY CONTROL

To achieve reactor coolant inventory control under this safe shutdown path, the High Pressure Coolant Injection (HPCI) system was chosen as the primary path. The HPCI system consists of a steam driven pump that can take suction from either the suppression pool or the condensate storage tank and pump water into the reactor vessel. The steam that runs the turbine comes from the reactor and is exhausted to the suppression pool. The HPCI system is designed to pump makeup water to the reactor at a rate of 5,600 gpm. The Direct Current system provides control power to the HPCI system. The advantages of the HPCI system are as follows:

- The HPCI system is a safety-related system.
- The HPCI system will actuate automatically.
- The HPCI system is a Class I system.
- The HPCI system major equipment is located in the HPCI rooms which are in the Reactor Building at elevation 476' 6".

The backup systems for this function are the Automatic Depressurization System (ADS) and Division I of the Low Pressure Coolant Injection (LPCI) system. ADS will depressurize the reactor vessel so that the LPCI system could be initiated for reactor coolant inventory control. Although Division II of LPCI is the preferred path according to emergency procedures, Division I was chosen since the HPCI system is powered by Division II. By selecting Division I of LPCI, an added safety feature of the SSEL is provided for the reactor coolant inventory control function. The advantages of the LPCI and ADS systems are as follows:

- The LPCI and ADS systems are safety-related systems.
- The LPCI and ADS systems will actuate automatically.
- The LPCI and ADS systems are a Class I system.
- The ADS system major equipment is located on the second floor of the drywell.
- The LPCI system major equipment is located in the corner rooms which are in the Reactor Building at elevation 476' 6".

DECAY HEAT REMOVAL

To achieve decay heat removal under this safe shutdown path, Division II of the Low Pressure Coolant Injection (LPCI) system and the Containment Cooling Service Water (CCSW) system was chosen as the primary path. The HPCI turbine takes steam from the reactor and exhausts it to the suppression pool. The LPCI system would then be aligned in the torus cooling mode. This alignment includes the LPCI pumps taking suction from the suppression pool, routing the water through the LPCI heat exchanger, and injecting the water back into the suppression pool. CCSW provides the cooling water to the LPCI heat exchanger and takes suction from the cribhouse bay. The backup systems for this function are the ADS valves and Division I of the LPCI and CCSW systems. The ADS valves discharge steam from the reactor to the suppression

pool. The LPCI and CCSW systems would be aligned the same as Division II stated above.

The advantages of the LPCI and CCSW systems are as follows:

- The LPCI and CCSW systems are safety-related systems.
- The LPCI system will actuate automatically.
- The LPCI and CCSW systems are Class I systems.
- Only one division of LPCI is required.
- The CCSW system major equipment is located in the Turbine Building Elev. 495'0".
- The LPCI system major equipment is located in the corner rooms which are in the Reactor Building at elevation 476' 6".

Methodology

Appendix A provides the Seismic Qualification Utility Group (SQUG) Safe Shutdown Equipment List (SSEL).

The methodology for preparation of the Seismic Qualification Utility Group (SQUG) Safe Shutdown Equipment List (SSEL) is as follows:

1. The following systems have been chosen by the Dresden Operations Department to satisfy the four safe shutdown functions for primary and backup shutdown paths.

<u>Safe Shutdown Function</u>	<u>Primary Shutdown Path</u>	<u>Backup Shutdown Path</u>
Reactor Reactivity Control	Control Rod Drive System	Control Rod Drive System
Reactor Coolant Pressure Control	Automatic Depressurization (Target Rock and ERVs)	Automatic Depressurization (Reactor Safety Relief Valves)
Reactor Coolant Inventory Control	High Pressure Coolant Injection	Automatic Depressurization and Low Pressure Coolant Injection (Division 1)
Decay Heat Removal	High Pressure Coolant Injection Low Pressure Coolant Injection (Division 2) and Containment Cooling Service Water (Division 2)	Automatic Depressurization Low Pressure Coolant Injection (Division 1) and Containment Cooling Service Water (Division 1)

2. Color-coded P&IDs were prepared to trace the primary and backup safe shutdown paths that include the above systems and the components that are used to perform the safe shutdown function. Components of systems that support the above systems are also color-coded on the P&IDs. The color coding scheme is as follows:

Red	- Primary Path (Train #1)
Green	- Secondary Path (Train #2)
Yellow	- Path Common to Both Primary and Secondary Path (Train #3)
Blue	- Optional Path or Equipment

There are some components that are listed more than once. This is because some systems are used for more than one function. In addition, a component may be used as a primary path for one function, and a secondary path for another function. Components were repeated to ensure the list

for each individual function is complete. If a component is listed once as a primary path (train #1) and again as a secondary path (train #2), then the component was colored coded yellow since it is common path (train #3), used for both primary and secondary paths.

3. Using the SQUG SSEM software, a list was generated that contains all equipment/components needed for safe shutdown of the plant. This list includes all components that are needed to support the equipment/components used for safe shutdown. This list also includes all components that are inherently rugged or not possessing any active safety function.
4. For each piece of equipment/component identified in the list, all of the appropriate information fields were completed. The following is a description of the information that is included in the SQUG SSEL.

<u>FIELD</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
1	Line Number	A unique number entry used to identify the order in which the equipment was selected and what function it supports. Sequential components are assigned as components are selected from a starting point and working towards the end of a functional path. X1000 Series Reactor Reactivity Control X2000 Series Reactor Coolant Pressure Control X3000 Series Reactor Coolant Inventory Control X4000 Series Decay Heat Removal X5000 Series Auxiliary and Support Systems X8000 Series Electrical Systems X9000 Series Racks and Panels X identifies if the component is specific to Dresden Units 2 or 3 shutdown path, or if the component is common to both units. X = 0 (Common for both units) X = 2 (Unit 2 path) X = 3 (Unit 3 path)
2	Train	1 = Primary success path component 2 = Backup success path component 3 = Component is shared by both success paths OP = Optional (preceded by 1, 2, or 3)
3	Equipment Class	Identify the appropriate equipment classification. Classifications for A-46 plant equipment is obtained from table 3-1 of the SQUG Generic Implementation Procedure (GIP). If a component is inherently rugged, it was identified with an "R" in this field space. These components change state from the normal to desired state. If the component was included for completeness or information purposes only, an "I" was inserted in this field.
4	Mark Number	The unique component or equipment identification number. This number was taken from the Dresden Master Equipment List (MEL) Revision 32 whenever possible.
5	System/Equipment	Identifies the system that component is a part of.

	Description	Also provides a brief description of the function of the equipment or component. The Rule of the Box mother component is identified here if applicable. (ROB - _____)
6	Drawing/ Rev/ Zone	Identifies the Piping and Instrumentation Diagram (P&ID) or electrical single line diagram where the component can be found. Identifies the revision of the drawing. Identifies the coordinates of the diagram where the equipment or component can be found.
7	Building	Identifies the building where the equipment or component is located.
8	Floor Elevation	Identifies the floor elevation within the plant where the equipment or component is located.
9	Room or Row/Column	Identifies where the component is located in the plant by room or by row and column found on general arrangement drawings.
10	Sort	Identifies what type of evaluation is required using one of the following codes: S = Seismic R = Relay SR = Seismic and Relay B = Component falls within the "Rule of the Box" and a seismic review separate from that of it's "mother" component isn't required BR = "Rule of the Box" component that also requires a relay review. Component with the following codes do not require any type of seismic or relay review and are included in the list for completeness only. N/A = Not Applicable (inherently rugged component)
11	Notes	The following notes have been used in this list: 1 = Actuation of component from normal to desired state is not required until after 30 seconds. 2 = Actuation of component from normal to desired state may not occur spuriously. 3 = Typical of 177 (Used with Control Rod Drive Unit components) 4 = To close the tie breakers between switchgears 28 and 29 (38 and 39 for unit 3), one of the main feed breakers to switchgear 28 (38) or 29 (39) should be

open.

- 5 = Components contain "essential" relays for safe shutdown
- 6 = Component requires an expansion anchor bolt tightness check

12 Normal State

This field contains one of the following descriptions:

- OPEN = Equipment is normally open
- CLOSED = Equipment is normally closed
- VENT = A three-way valve in the vented position
- ON = Equipment is on and normally operating (i.e., a pump)
- OFF = Equipment is off and normally not operating
- OPERABLE = Equipment normally changes state from open to closed or from closed to open
- ENERGIZED = Equipment is on and normally operating (i.e., required electrical bus is energized)
- DEENERGIZED = Equipment is off and normally not operating
- N/A = Not Applicable

13 Desired State

This field contains one of the following descriptions:

- OPEN = Equipment is desired to be open
- CLOSED = Equipment is desired to be closed
- VENT = A three-way valve in the vented position
- ON = Equipment is on and now operating (i.e., a pump)
- OFF = Equipment is off and now not operating
- OPERABLE = Equipment normally changes state from open to closed or from closed to open
- ENERGIZED = Equipment is on and now operating (i.e., required electrical bus is energized)
- DEENERGIZED = Equipment is off and now not operating

		GIZED	operating
		N/A	= Not Applicable
14	Power Required	Determines whether an external source of power is required to operate or control the equipment or component.	
15	Support System Drawing/ Rev	Identifies the drawing number and revision which shows the systems or components required to support the operation of the equipment or components being evaluated.	
16	Required Interconnections and Supporting Components	Identifies the name of each system or component supporting the equipment identified being evaluated. Identify the motive and control power if required. (Motive Power - _____) (Control Power - _____)	
17.	Regulatory Issue	S indicates USI A-46 Equipment	

Operations Department Review

The Operations Department Approval Letter and the list of Normal and Emergency Operating Procedures for SQUG Safe Shutdown Systems is provided in Appendix G.

Peer Review

A Peer Review of the Safe Shutdown Lists was performed by Mr. Robert Budnitz of Future Resources, Inc. and is provided in Appendix H.

3. Dresden Nuclear Station Seismic Design Basis

This section describes the seismic motion used for the Dresden USI A-46 study. Based on the acceptance of the ground (site) design basis response spectrum and the associated amplified in-structure response spectra (ISRS), Dresden is using plant design basis spectra. The ISRS and the development of the spectra were presented to the NRC by ComEd in response to Generic Letter 87-02 as "conservative design" spectra [6][28]. The NRC reviewed the design basis ISRS and declared that they could be utilized as "conservative design" ISRS [7]. The following sections describe the basis and development of the design basis spectra.

Description of Input Motions

The input motions used to create the seismic design of DRESDEN NUCLEAR POWER STATION (DNPS) [6] are based on the Housner-type Ground Response Spectrum (GRS) and the north-south component earthquake record of El Centro of May 18, 1940. The Dresden design basis SSE ground spectra are smoothed Housner-type spectra. The design basis ISRS were generated using a time-history method of analysis. El Centro 1940 earthquake, N-S component anchored to 0.10g, was used to generate the ISRS for OBE. For SSE design, the spectral values were obtained by doubling the OBE spectra. This DNPS Operating Basis Earthquake (OBE) is defined in the horizontal direction by the Housner-type GRS scaled to 0.10g peak ground acceleration (PGA) and the ISRS developed from the El Centro earthquake time history scaled to 0.10g. The OBE in the vertical direction is defined by 2/3 of the Housner-type GRS with a resulting PGA value of 0.067g. The DNPS Safe Shutdown Earthquake (SSE) is defined by multiplying the OBE acceleration by a factor of 2 resulting in a horizontal direction GRS PGA value of 0.20g.

Description of Dynamic Modeling and Bases for the Selection of Key Modeling Parameters

The Dresden Nuclear Station is made up of the following Seismic Class 1 structures:

1. Drywell Containment Structure & Internals including Reactor Pressure Vessel
2. Reactor Building
3. Suppression Chamber
4. Control Room
5. 310 Foot Chimney

Safe shutdown equipment is located in structures 1 through 4 listed above. The seismic structural response was determined for structures above. The buildings are founded on bedrock so any soil-structure interaction effects were considered negligible.

The mathematical model of the above Seismic Class 1 structures was constructed in terms of lumped masses and stiffness coefficients on a fixed base. Damping values used were based upon the evaluation of the materials and mode shapes. The damping used is as shown in Table 3-1 shown below:

Table 3-1
Dresden Design Basis Damping Values

Structural/Component Type	Damping
Welded Assemblies	1%
Steel Frame Structures	2%
Bolted & Riveted Assemblies	2%
Reinforced Concrete Structures	5%
Vital Piping Systems	0.5%

In-Structure Response Spectra

The horizontal response spectra curves are based on a lumped mass, fixed base model for the Reactor-Turbine building. Appendix B shows the north-south and east-west floor spectra used for the A-46 evaluation. The vertical in-structure response constant acceleration or seismic coefficient is defined by 2/3 of the Housner-type GRS PGA. (OBE - 0.067g, SSE - 0.133g).

Additional in-structure response spectra at additional damping values have been developed for other programs such as the review of masonry block walls (IE Bulletin 80-11). As described in the SQUG GIP, Revision 2, the use of 5 percent damped in-structure response acceleration curves are allowed for characterizing seismic demand for equipment.

The NRC staff reviewed the original and subsequent modeling performed by ComEd and its contractors and determined that the building modeling was adequate. The NRC staff concluded that the resulting in-structure response spectra could be utilized as conservative design ISRS spectra as defined in the GIP [2] as opposed to realistic, median centered ISRS [7].

The SSE site ground response spectrum and the generated ISRS are provided in Appendix B.

4. Results of Screening Verification and Walkdown - Equipment Classes 0 Through 20

The purpose of this section is to describe the Screening Verification and Walkdown performed to verify the seismic adequacy of active mechanical and electrical equipment identified in the Dresden Safe Shutdown Equipment List (SSEL) contained in Appendix A2. The guidelines contained in this section were used to screen the equipment for seismic adequacy. If the equipment did not pass this screen, it was declared an outlier. Outlier identification and resolution, described in Section 8, is accomplished by:

- 1) more refined or sophisticated methods for verifying seismic adequacy, or
- 2) equipment/anchorage modification, or
- 3) eliminating seismic interactions.

Seismic Evaluation Guidelines

The procedure for performing the Screening Verification and Walkdown is based on the following four seismic screening guidelines, as defined in the GIP [2]:

1. Seismic Capacity Compared to Seismic Demand - The seismic capacity of the equipment, based on earthquake experience data, generic seismic testing data, or equipment-specific seismic qualification data, should be greater than the seismic demand imposed on the equipment by the safe shutdown earthquake (SSE).
2. Caveats - In order to use the seismic capacity defined by the earthquake experience Bounding Spectrum or the generic seismic testing GERS, the equipment should be similar to the equipment in the earthquake experience equipment class or the generic seismic testing equipment class and also meet the intent of the specific caveats for that class of equipment. If equipment-specific seismic qualification data is used, then any specific restrictions or caveats for that qualification data apply instead.
3. Anchorage - The equipment anchorage capacity, installation, and stiffness should be adequate to withstand the seismic demand from the SSE at the equipment location.
4. Seismic Interaction - The effect of possible seismic spatial interactions with nearby equipment, systems, and structures should not cause the equipment to fail to perform its intended safe shutdown function.

The evaluation of equipment against each of these four screening guidelines at Dresden is based upon walkdown evaluations, calculations, and other supporting data.

Seismic Capacity Vs. Demand

Dresden determined the seismic capacity of safe shutdown equipment using:

- Earthquake experience data with capacity defined by the Bounding Spectrum, or Reference Spectrum depending on the demand spectrum used,
- Generic seismic test data which have been compiled into Generic Equipment Ruggedness Spectra (GERS), or
- Equipment-specific seismic qualification data.

The seismic demand imposed on an item of equipment depends on whether or not the Housner-type ground response spectrum or amplified in-structure response spectra was used, and how it is compared to the capacity data.

Conservative ISRS were compared to 1.5 times the bounding spectrum (i.e., reference spectrum) or the ground spectrum was compared to the bounding spectrum for equipment within 40' of grade with an estimated fundamental frequency greater than 8 Hz. The GERS were used in only a few cases for the capacity vs. demand comparisons. Finally, newer, upgraded equipment that had been seismically qualified in accordance with the IEEE 344 Standard, 1975 Edition or later, was accepted based on this testing documentation and anchorage design calculations, and was supplemented only by a seismic interaction review by the SRT.

For purposes of determining the 40' Above Grade elevation, effective grade for the site and/or each building must be determined. "Effective grade" at a Nuclear Station is defined as the average elevation of the ground surrounding the building along its perimeter. At Dresden, effective grade was established at 517.5'.

Caveat Compliance

The second screening guideline which must be satisfied to verify the seismic adequacy of an item of mechanical or electrical equipment is to confirm that (1) the equipment characteristics are generally similar to the earthquake experience equipment class or the generic seismic testing equipment class and (2) the equipment meets the intent of the specific caveats for the equipment class. This review is only necessary when the Bounding Spectrum or the GERS is used to represent the seismic capacity of an item of equipment. If equipment-specific seismic qualification data is used instead, then only the specific restrictions applicable to that equipment-specific qualification data need be applied.

Another aspect of verifying the seismic adequacy of equipment included within the scope of this procedure is explained by the "rule of the box." For the equipment included in either the earthquake or testing equipment class, all of the components mounted on or in this equipment are considered to be part of that equipment and do not

have to be evaluated separately. However, the walkdown engineers did look for suspicious details or uncommon situations which could make the equipment item vulnerable.

An item of equipment should have the same general characteristics as the equipment in the earthquake experience equipment class or the generic seismic testing equipment class. The intent of this rule is to preclude items of equipment with unusual designs and characteristics which have not demonstrated seismic adequacy in earthquakes or tests.

"Caveats" are defined as the set of inclusion and exclusion rules which represent specific characteristics and features particularly important for seismic adequacy of a particular class of equipment. Appendix B of the GIP contains a summary of the caveats for the earthquake experience equipment class and for the generic seismic testing equipment class.

The "intent" of the caveats should be met when evaluating an item of equipment as they are not fixed, inflexible rules. Engineering judgment is used to determine whether the specific seismic concern addressed by the caveat is met. Each item of equipment should be evaluated to determine whether it meets the specific wording of the applicable caveats and their intent. However, if an item of equipment meets the intent of the caveats, but the specific wording of the caveat rule is not met, then that item is considered to have met the caveat. At Dresden, a small number of SSEL items were judged to meet the intent, but not the exact wording of a caveat, and these cases are reported in Section 5 of this report. All others meet the specific wording of the applicable caveats and their intent.

Anchorage Adequacy

Dresden verified anchorage adequacy with an approach incorporating three elements:

- Comparison of the anchorage capacity with the seismic demand.
- Evaluation of the anchorage to verify that it is free of gross installation defects.
- Evaluation of the equipment anchorage load path to verify that there is adequate stiffness and strength.

The screening approach for verifying the seismic adequacy of equipment anchorage is based upon a combination of inspections, analyses, and engineering judgment.

Inspections consisted of measurements and visual evaluations of the equipment and its anchorage, supplemented by use of plant documentation and drawings. Analyses compared the anchorage capacity to the seismic loadings (demand) imposed upon the anchorage. These analyses were done using the guidelines in Section 4 and Appendix C of the GIP. Engineering judgment is also an important element in the evaluation of equipment anchorage. As a general rule, all significantly sized equipment was rigorously analyzed using the ANCHOR software package developed by Stevenson & Associates [19]. Small equipment, weighing usually 50 lbs. or less was accepted by judgment and a "tug test". The tug test, performed by qualified Seismic Engineers,

simply involves pulling on the device (say, a wall-mounted transmitter) with a force to exceed 3 times the expected seismic demand for the equipment location. This demonstrates, as a minimum, a safety factor of 3 for the equipment anchorage, consistent with the anchorage evaluation criteria in the GIP.

The four main steps used to evaluate seismic adequacy of equipment anchorages at Dresden followed the guidance of the GIP and are shown below:

1. Anchorage Installation Inspection
2. Anchorage Capacity Determination
3. Seismic Demand Determination
4. Comparison of Capacity to Demand

The first main step in evaluating the seismic adequacy of anchorages was to check the anchorage installation and its connection to the base of the equipment. This inspection consisted of visual checks and measurements along with a review of plant documentation and drawings where necessary, and an anchor bolt tightness and embedment check for anchorage utilizing concrete expansion anchors.

All accessible anchorages were visually inspected. A check of the following equipment anchorage attributes was made:

1. Equipment Characteristics
2. Type of Anchorage
3. Size and Location of Anchorage
4. Installation Adequacy
5. Embedment Length
6. Gap at Threaded Anchors
7. Spacing Between Anchorages
8. Edge Distance
9. Concrete Strength and Condition
10. Concrete Crack Locations and Sizes
11. Cabinets Housing Essential Relays
12. Equipment Base Stiffness/Prying Action
13. Equipment Base Strength/Structural Load Path
14. Embedment Steel and Pads

For expansion anchors, a tightness check was performed to detect gross installation defects (such as oversized concrete holes, total lack of pre-load, loose nuts, damaged subsurface concrete, and missing plug for shell types) which would leave the anchor loose in the hole. The tightness check for expansion anchors was accomplished by applying a torque to the anchor by hand until the anchor was "wrench tight," i.e., tightened without excessive exertion. If the anchor bolt or nut rotates less than about 1/4 turn, then the anchor is considered tight. The tightness check was performed on all accessible expansion anchors for floor mounted equipment where the anchorage adequacy is performed by analysis rather than "tug test" as described above. Wall mounted equipment was excluded as allowed by the GIP because the anchors experience some tensile loading due to gravity. A random ("spot") embedment check on

selected anchors was performed, inspecting them to ensure that the shell anchor and equipment base are not in contact so as to invalidate the results of the tightness check. Two installation problems were found out of 604 anchors tested: (1) In cabinet D02-0902-0028 one anchor on which the nut itself was not torqued down completely (that is, seated) and had about a 1/4" gap (Table 8.2, ID# A25), (2) In cabinet D03-0903-0033 in which there was about a 1/8" gap under one anchor (Table 8.2, ID# A26). Additionally, in cabinet D03-0903-0052 (located adjacent to Safe Shutdown Panel D03-903-32) one loose bolt was found (Table 8.2, ID# A23). The results of the tightness checks and embedment checks are found in Appendix F. The rest of CEAs for which the tightness check was performed were found to be adequate. Based on the embedment checks and plant documentation, the predominant expansion anchor type at Dresden is the WEJ-IT drop-in shell anchor which requires no knock-down factor for anchor type. Newer installations utilize Hilti-Kwik bolt wedge type expansion anchors.

The second main step in evaluating the seismic adequacy of anchorages was to determine the allowable capacity of anchors used to secure an item of equipment. The allowable capacity was obtained by multiplying the nominal allowable capacities by the applicable capacity reduction factors. The nominal capacities and reduction factors are obtained from Appendix C of the GIP, based on the results of the anchorage installation inspection checks. The nominal allowable tensile and shear capacities are established in EPRI Report NP-5228-SL [15]. The nominal allowable capacities incorporate a design safety factor of 3 between the ultimate and allowable (working) capacities.

The pullout capacity allowable is based on the product of the nominal pullout capacity and the applicable capacity reduction factors based on identifying the appropriate anchor type and make:

$$P_{all} = P_{nom} RT_p RL_p RS_p RE_p RF_p RC_p RR_p$$

Where: P_{all} = Allowable Pullout capacity of installed anchor (kip)
 P_{nom} = Nominal allowable Pullout capacity (kip)
 RT_p = Reduction factor for the Type of expansion anchors
 RL_p = Reduction factor for short embedment Lengths
 RS_p = Reduction factor for closely Spaced anchors
 RE_p = Reduction factor for near Edge anchors
 RF_p = Reduction factor for low strength (f'_c) concrete
 RC_p = Reduction factor for Cracked concrete
 RR_p = Reduction factor for expansion anchors securing equipment with essential Relays

The shear capacity allowable is based on the product of the nominal shear capacity and the applicable capacity reduction factors:

$$V_{all} = V_{nom} RT_s RL_s RS_s RE_s RF_s RR_s$$

Where: V_{all} = Allowable shear capacity of installed anchor (kip)
 V_{nom} = Nominal allowable shear capacity (kip)
 RT_s = Reduction factor for the Type of expansion anchors

RL_s = Reduction factor for short embedment Lengths
 RS_s = Reduction factor for closely Spaced anchors
 RE_s = Reduction factor for near Edge anchors
 RF_s = Reduction factor for low strength (f'_c) concrete
 RR_s = Reduction factor for expansion anchors securing equipment
with essential Relays

Note that the pullout and shear capacities for anchors given above are based on having adequate stiffness in the base of the equipment and on not applying significant prying action to the anchor. If Check 12, Base Stiffness and Prying Action, from Part II, Chapter 4 of the GIP shows that stiffness is not adequate or that significant prying action is applied to the anchors, then the Seismic Capability Engineers lowered the allowable capacity loads accordingly, normally by completely discounting the affected bolt.

The third step in evaluating the anchorages is to determine the seismic demand imposed on the equipment. The demand load is established based on the type of demand spectrum used. If the amplified ISRS are used, no additional factors of conservatism are used to establish the demand load since the ISRS are deemed "conservative design" by review of the NRC. The demand load is the product of the appropriate spectral acceleration value times the weight of the equipment item. Table C.1-1 of the GIP is used, in general, to establish the fundamental frequency and equipment damping for the given classes of equipment. If the item is deemed rigid, the zero period acceleration (ZPA) was used. If the item was deemed flexible, the peak of the response spectrum was used. If the fundamental frequency is given in the SEWS, then the largest spectral acceleration in the range from that estimated frequency to the ZPA is used. If the ground spectrum was used for demand, then 1.875 times the appropriate spectral acceleration is used where 1.875 is the product of 1.5, the median amplification factor, and 1.25, the additional anchorage factor of conservatism for non-conservative demand spectra.

The fourth and final step to complete the evaluation determined the seismic demand on the equipment anchorage and compared the seismic demand to the anchorage capacity. The demand on the anchorage was calculated by applying the demand load at the equipment center of gravity. If the demand was less than the capacity, the anchorage was acceptable; otherwise, the equipment item was declared an outlier.

Seismic Interaction Checks

The fourth and final screening guideline used to verify the seismic adequacy of an item of mechanical or electrical equipment was to confirm that there were no adverse seismic spatial interactions with nearby equipment, systems, and structures which could cause the equipment to fail to perform its intended safe shutdown function. The interactions of concern are (1) proximity effects, (2) structural failure and falling, and (3) flexibility of attached lines and cables. Guidelines for judging interaction effects when verifying the seismic adequacy of equipment are presented in Appendix D of the GIP.

During the plant walkdowns at Dresden, the SRT's identified only a few interaction concerns; specifically, portable equipment items in general (carts, bookcases, cabinets,

etc.) in the main control room and throughout the plant. These particular issues and their resolution are discussed in detail in Section 8.

Overhead piping systems and ductwork were closely examined in all plant areas containing A-46 equipment. The SRT's noted that the systems were well supported, with the exception of one vulnerability in which fire piping is located over Safe Shutdown Panels D03-2203-0073A and D03-2203-73B (Appendix I, ID# A37).

Outlier Resolution

An outlier is defined as an item of equipment which does not meet the screening guidelines noted above. An outlier may be shown to be adequate for seismic loadings by performing additional evaluations such as the seismic qualification techniques currently being used in newer nuclear power plants. These additional evaluations and alternate methods were thoroughly documented on the OSVS forms.

Seismic Capability Engineers and Peer Reviewer

The guidelines described in this section were applied by Seismic Capability Engineers as defined in Section 2 of the GIP. These engineers exercised engineering judgment based upon an understanding of the guidelines given in this document, the basis for these guidelines given in the reference documents and presented in the SQUG training course, and their own seismic engineering experience.

The station walkdowns were conducted June 12-16, August 23-24, September 6-8, and October 2-4, 1995; and February 19-21, March 4-8 and April 11-12, 1996. The seismic capability engineers for the Dresden walkdown were Messrs. B. M. Lory, R. Janowiak, T. Loch, and F. Polak of ComEd, Dr. J. D. Stevenson, Messrs. G. G. Thomas, S. Anagnostis and W. Djordjevic of S&A, and Dr. R. P. Kennedy of RPK Structural Mechanics, Inc.. All have been SQUG trained and certified. Their resumes and/or SQUG Walkdown Course Completion Certificates are provided in Appendix C.

An independent evaluation and peer review of the walkdown process was performed by Mr. Harry Johnson of Programmatic Solutions during April 11-12, 1996. As required by the GIP, the review included an assessment of the walkdown and analyses by audit and sampling to identify any gross errors. Mr. Johnson personally conducted two days of walkdowns to ascertain completeness and correctness of the A-46 walkdown. His review included comparing completed SEWS with equipment previously inspected by the SRTs. Mr. Johnson also reviewed the documentation packages the SRTs used to determine equipment design details that could not be readily determined by walkdown. Mr. Johnson concluded that the walkdowns were being conducted competently and the findings made were appropriate. Appendix E provides documentation of Mr. Johnson's peer review.

Other Types of Seismic Evaluations and Interfaces

In addition to the seismic evaluations covered in this section for active mechanical and electrical equipment, seismic evaluations for two other types of equipment are covered in other sections as follows:

- Section 6 - Tanks and Heat Exchangers Review
- Section 7 - Cable and Conduit Raceways Review

A separate Relay Evaluation Report has been issued to document the results of the relay functionality review required in Section 6 of the GIP [21].

While these other seismic evaluations can generally be performed independently from those for active mechanical and electrical equipment, there are a few areas where an interface with the Relay Functionality Review is appropriate:

- Any cabinets containing essential relays, as determined by the relay review, should be evaluated for seismic adequacy using the guidelines contained in this section.
- A capacity reduction factor should be applied to expansion anchor bolts which secure cabinets containing essential relays as well as a "no gap" provision for base anchorage. These provisions are discussed in Section 4.4 and Appendix C of the GIP.
- Seismic interaction, including even mild bumping, is not allowed on cabinets containing essential relays. This limitation is discussed in Section 4.5 of the GIP.
- In-cabinet amplification factors for cabinets containing essential relays were estimated, using the guidelines in Section 6 of the GIP, by the Seismic Capability Engineers for use in the Relay Functionality Review.

Documentation

Dresden documented the results of the Screening Verification and Walkdown on Screening Verification Data Sheets (SVDS) in Appendix D and Screening Evaluation Work Sheets (SEWS).

As discussed in Section 4.4, the discussion of the review of Heat Exchangers & Tanks and Cable Tray & Conduit Raceways is given in Sections 6 and 7, respectively. SEWS for Class 21 equipment, Heat Exchangers and Tanks, and Plant Area Summary Sheets (PASS) for the Cable Tray & Conduit Raceway Reviews were also developed, and are on file with ComEd.

Outliers for all equipment are discussed in Section 8. The Relay Functionality Assessment is given in a separately bound report entitled, "USNRC USI A-46 Resolution, Relay Evaluation Report" [21], which has been included with this submittal.

Evaluation Results - Equipment Classes 0 Through 20

The seismic review SSEL list contains 428 equipment items including heat exchangers & tanks. Of this population, 112 items were declared outliers. Based on the electrical raceway walkdowns and subsequent analytical reviews, ten (10) raceway outliers were declared. For a discussion of the outliers see Section 8.

5. GIP Deviations and Commentary on Meeting The Intent of Caveats

No significant or programmatic deviations from the GIP were made while performing the walkdowns and seismic adequacy evaluations at Dresden for resolution of USI A-46. Very few *interpretations* were made with respect to the *wording* of the GIP caveats versus the caveat's intent. This section lists those interpretations or measures taken to meet the intent of the caveat in Table 5.1 below. All other equipment not listed in this table met the caveat rules as stated in the GIP.

**Table 5-1
Commentary Regarding GIP Deviations**

Equipment ID and Description	Commentary
Diesel Fuel Oil Storage Day Tanks D00-5202-----T05 D02-5202-----T05 D03-5202-----T05 - Horizontal Storage Tanks	These units are mounted on 2 saddles each and each saddle is anchored to 11" high concrete piers by 4 - 7/8" cast-in-place anchors. The minimum edge distance required for cast-in-place-bolts of 4D (Appendix C of GIP) was not met. It was shown that there are rebars outside of bolts. This anchorage was evaluated with the appropriate knockdown factors from the GIP. The resulting anchorage capacity was shown to exceed the design basis seismic demand loads and these tanks were not classified as outliers.
Instrument Racks D03-2203-0029 D03-2203-0036	Racks are not bolted to adjacent Rack. Existing gap is 1/4" gap and estimated frequency is over 15 Hz. Also the racks are tied back to wall. Therefore, interaction is not considered credible by SRT judgment and these racks were not classified as outliers.
Electrical Equipment D02-7128-----T10 D02-7229-----T10 D03-7138-----T10 D03-7239-----T10 D02-7826-4----M05 D02-8302A1----P06 D02-8302B-1---P06 D02-83125-1---P06 D02-83125-2---P06 D02-83250-----M05 D02-9802-A----P06 D02-9802-B----P06 D02-9802-A----B04 D02-9802-B----B04 D00-83250-0---B05 D02-83250-2---B05	Capacity exceeds demand in a small region (small frequency range), but in the judgment of the Seismic Capability Engineers it was considered inconsequential.

LPCI Injection Pump D02-1502-A----P30 D02-1502-B----P30 D02-1502-C----P30 D02-1502-D----P30 D03-1502-A----P30 D03-1502-B----P30 D03-1502-C----P30 D03-1502-D----P30 - Vertical Pumps	These anchors are grouted-in-place; however, cast-in-place anchorage allowables (for tensile capacities) were used. It was established by Drawing M-241 that non-shrink bonding compound -- "Colma" (Epoxy Polysulfide) as manufactured by Sika Chemical Corp. was used. The grouted anchorages were themselves closely inspected and found to be in excellent condition with no shrinkage or cracking evident.

6. Results of the Tanks and Heat Exchangers Review

Tanks and heat exchangers were evaluated in accordance with the rules and procedures given in Section 7 of the GIP [2]. If the vertical tanks did not meet the caveats, they were generally evaluated using the procedures of Appendix H - *Flat Bottom Vertical Fluid Storage Tanks* of EPRI Report NP-6041, Rev. 1 [17].

This section gives the results of the tank and heat exchanger reviews performed. In total, thirty-five (35) tanks and heat exchangers were evaluated. Eight (8) tanks and heat exchangers were declared outliers generally due to exceeding anchorage allowables.

Evaluation Methodology

The screening evaluations described in this section for verifying the seismic adequacy of tanks and heat exchangers cover those features of tanks and heat exchangers which experience has shown can be vulnerable to seismic loadings. These evaluations include the following features:

- Check that the shell of large, flat-bottom, vertical tanks will not buckle. Loadings on these types of tanks include the effects of hydrodynamic loadings and tank wall flexibility.
- Check that the anchor bolts and their embedments have adequate strength against breakage and pullout.
- Check that the anchorage connection between the anchor bolts and the tank shell (e.g., saddles, legs, chairs, etc.) have adequate strength.
- Check that the attached piping has adequate flexibility to accommodate the motion of large, flat-bottom, vertical tanks.

The Seismic Capability Engineers reviewed these evaluations to verify that they meet the intent of these guidelines. This review included a field inspection of the tank, the anchorage connections, and the anchor bolt installation against the guidelines described in this Section 7, Section 4.4, and Appendix C of the GIP [2].

The derivation and technical justification for the guidelines utilized were developed specifically for: (1) large, flat-bottom, cylindrical, vertical, storage tanks; and (2) horizontal cylindrical tanks and heat exchangers with support saddles made of plates. The types of loadings and analysis methods described in this section are considered to be appropriate for these types of tanks and heat exchangers; however, a generic procedure cannot cover all the possible design variations. Other design features such as wall mounted heat exchangers, heat exchangers and vertical tanks supported on legs not covered by the GIP were evaluated using the same procedures and loading conditions as given in Section 7 of the GIP.

Other types of tanks and heat exchangers (e.g., vertical tanks supported on skirts and structural legs) which were not specifically covered by the guidelines in Section 7 of the GIP were evaluated by the Seismic Capability Engineers using an approach similar to that described in Section 7 of the GIP.

For vertical tanks, Reference 17 provides guidelines for evaluating flat bottom vertical tanks using the Conservative Deterministic Failure Margin (CDFM) analysis approach. The same design basis input spectra are used as for the GIP (Section 7) analysis. The results, expressed as High Confidence Low Probability of Failure (HCLPF), are known to be less conservative than the GIP evaluation results. This is due, predominantly, to the use of more sophisticated evaluation techniques such as accounting for water hold-down forces. The screening guidelines described in Section 7 of the GIP were developed to simplify the complex dynamic fluid-structure interaction analyses for large vertical tanks and to further simplify the equivalent static analysis procedure for smaller horizontal tanks. To accomplish this, it was necessary to make certain simplifying assumptions and to limit the range of applicability of the guidelines. As such, the HCLPF result should normally exhibit a higher capacity margin over the design basis demand than the GIP approach. The CDFM approach was used for the Condensate Storage Tanks at Dresden.

The other types of tanks covered by the screening guidelines in Section 7 of the GIP are cylindrical steel tanks and heat exchangers whose axes of symmetry are horizontal and are supported on their curved bottom by steel saddle plates. The screening guidelines are based on the assumption that the horizontal tanks are anchored to a stiff foundation, which has adequate strength to resist the seismic loads applied to the tank. All the base plates under the saddles are assumed to have slotted anchor bolt holes in the longitudinal direction to permit thermal growth of the tank, except for the saddle at one end of the tank which is fixed. The saddles are assumed to be uniformly spaced a distance S apart, with the two ends of the tank overhanging the end saddles a maximum distance of $S/2$.

A simple, equivalent static method was used to determine the seismic demand on and capacity of the anchorages and the supports for horizontal tanks. The screening guidelines contained in Section 7 of the GIP specifically addressed only the seismic loads due to the inertial response of horizontal tanks. If, during the Screening Verification and Walkdown of a tank, the Seismic Capability Engineers determined that the imposed nozzle loads due to the seismic response of attached piping may be significant, then these loads were included in the seismic demand applied to the anchorage and supports of the tank. The nozzle loads were obtained from existing ComEd piping analysis.

Summary of Evaluation Results

The results of the A-46 evaluations are summarized below:

Table 6-1: Tank & Heat Exchanger Evaluation Results

No.	ID	Description	Type	Results
1	D00-3303-A---T05 D00-3303-B---T05	Contaminated Condensate Storage Tank	Vertical Flat Bottom Tank	Outlier - Tank is supported by ring foundation.
2	D00-5201-----T05 D02-5201-----T05 D03-5201-----T05	Diesel Fuel Oil Storage Tanks	Buried Horizontal Storage Tank	OK - Meets Design Basis in Accordance with GIP Section 7 Rules
3	D00-5202-----T05	Diesel Fuel Oil Storage Day Tanks	Horizontal Storage Tank	Outlier- Sight glass of tank is an interaction issue
4	D02-5202-----T05 D03-5202-----T05	Diesel Fuel Oil Storage Day Tanks	Horizontal Storage Tank	OK - Meets Design Basis in Accordance with GIP Section 7 Rules
5	D02-1503-A---H15 D03-1503-A---H15 D02-1503-B---H15 D03-1503-B---H15	LPCI Heat Exchangers	Elevated Vertical Heat Exchanger	Outlier - ComEd is currently evaluating the adequacy of the support steel. The A-46 evaluation of this equipment is pending the completion of ComEd's review and any modification to be made to this support.
6	D02-2320-GSC--H15 D03-2320-GSC--H15	Gland Seal Condensers	Horizontal Storage Tank	OK - Meets Design Basis in Accordance with GIP Section 7 Rules
7	D02-0220-0082AA10 D02-0220-0082BA10 D02-0220-0082CA10 D02-0220-0082DA10 D03-0220-0082AA10 D03-0220-0082BA10 D03-0220-0082CA10 D03-0220-0082DA10 D02-0220-0083AA10 D02-0220-0083BA10 D02-0220-0083CA10 D02-0220-0083DA10 D03-0220-0083AA10 D03-0220-0083BA10 D03-0220-0083CA10 D03-0220-0083DA10	Isolation Valve Accumulators	Wall Mounted Horizontal Storage Tank	OK - Meets Design Basis in Accordance with GIP Section 7 Rules
8	D02-0318-B---T05 D02-0318-A---T05 D03-0409-A---T05 D03-0409-B---T05	East and West Bank Scram Discharge Volume Tanks	Horizontal Storage Tank	OK - Meets Design Basis in Accordance with GIP Section 7 Rules
9	D02-4798-A---A10	Target Rock Accumulators	Wall Mounted Horizontal Storage Tank	Outlier - The accumulator has one bolt missing
10	D03-4798-A---A10	Target Rock Accumulators	Wall Mounted Horizontal Storage Tank	OK - Meets Design Basis in Accordance with GIP Section 7 Rules

7. Results of the Cable Tray and Conduit Raceway Review

Summary of the Review

This section documents the cable and conduit raceway review performed at the Dresden Station Units 2 and 3, using the Generic Implementation Procedure (GIP) by the Seismic Qualification Utility Group (SQUG) [2]. The review includes both Unit 2 and Unit 3.

The raceway review was performed as specified in GIP Section 8. Raceway systems were walked down, checked against the Inclusion Rules and Other Seismic Performance Concerns as specified in Section 8.2 of the GIP, and examined for seismic spatial interactions with adjacent equipment and structures. Twelve(12) representative, worst-case raceway supports were selected and as-built. These supports then received a Limited Analytical Review per GIP Section 8.3 of the GIP. Outliers were identified and documented.

This section (Section 7.1) summarizes the raceway review. The scope of the review is described in Section 7.2. Section 7.3 contains the results of the Limited Analytical Reviews (LARs). Section 7.4 summarizes the raceway outliers. Supporting documentation consists of the Plant Area Summary Sheets (PASS), the calculations performed for the Limited Analytical Reviews (LARs), and the Outlier Seismic Verification Sheets (OSVS).

Scope of the Review

The scope of the review was determined by studying the plant layout drawings and walking through the plant to determine how cabling is routed to the areas of the plant containing the Safe Shutdown Equipment List (SSEL) equipment. It was concluded that the review should include:

- all elevations of the reactor buildings excluding the re-fueling floor, elevation 589' and selected areas of elevations 545' and 570',
- selected vital areas of the turbine building including the diesel generator rooms, 4 KV switchgear areas, CCSW areas and vaults, the x-area and high pressure heater bays, and battery rooms and electrical bus areas of elevations 534', 538', and 549',
- cable tunnel,
- the control room and the auxiliary electrical equipment room,
- and, in the crib house, the raceways suspended from elevation 480' to 517.5' above the circulating water pumps, and the raceways in the service water pumps area.

The walk down was performed during the week of February 18, 1996.

The walk down of each plant area was documented on a PASS. Table 7.1 summarizes the PASS. The first column contains the ID used to track the PASS, the second column

describes the area of the plant covered by the PASS, and the third column lists the LARs (if any) associated with the PASS.

Table 7.1 Summary of the Plant Area Summary Sheets (PASS)

PASS #	Plant Area	LAR #
RACE 001	Unit 2 Battery Room Area	LAR 001, 002
RACE 002	Bus 21, 22, 23, 24 and 4KV Switchgear Rooms	LAR 003
RACE 003	Unit 2/3 Control Room Vent Area (Backup)	None Chosen
RACE 004	Auxiliary Electrical Equipment Room	LAR 004
RACE 005	Unit 2/3 Control Room	None Chosen
RACE 006	Unit 2 Turbine Building, El. 538	LAR 005
RACE 007	Unit 2 and Unit 3 Turbine Building, El. 538	None Chosen
RACE 008	Unit 3 Turbine Building, El. 538	LAR 006
RACE 009	Crib House	None Chosen
RACE 010	Unit 2 Turbine Building (including D/G Room), El. 517	LAR 007
RACE 011	Unit 3 Turbine Building (including D/G Room), El. 517	None Chosen
RACE 012	Unit 2 and Unit 3 CCSW Pump Area	None Chosen
RACE 013	Unit 2 and Unit 3 Reactor Building, (including D/G Room), El. 517	LAR 008, 009
RACE 014	Unit 2 and Unit 3 Reactor Building, El. 545	None Chosen
RACE 015	Unit 2 and Unit 3 Reactor Building, El. 570	None Chosen
RACE 016	Unit 2 and Unit 3 Corner Rooms and Torus	LAR 010
RACE 017	Unit 2 HP Heater Bay	LAR 011
RACE 018	Cable Tunnel	LAR 012

Limited Analytical Reviews (LARs)

General Description of Dresden Raceways

Dresden's raceway systems are primarily of rod-hung or steel angle frame construction. The rod-hung trapeze supports vary from single to multi-tier depths and support mostly cable trays and some conduit. The supports of steel angle frame construction vary from the very simple wall mounted bracket supporting a few conduit to floor-ceiling-wall, floor-ceiling, and floor-wall mounted multi-tier frames supporting mostly cable trays and some conduit. Newer supports are of tube steel construction, are well welded and appear substantial.

Cable trays are primarily of ladder or solid bottom type construction with 6" side rails and vary in width from 12" to 36". The trays are sometimes sprayed with fire retardant or have steel covers. Conduits vary in size up to 5" nominal diameter and are of rigid steel material (standard schedule pipe). The trays and conduits are secured to hangers using

standard tray clamps (clips), pipe clamps, or bolting. No missing or damaged hardware was noted during the walkdowns

The steel angle frame supports are constructed with single angle posts and cross members interconnected with single bolts. Ceiling anchorages are primarily embedded struts. Floor anchorages are welded base plates with concrete anchor bolts. Wall anchorages are embedded struts and welded base plates with concrete anchor bolts. Rod hanger cross members are constructed with steel angle sections. Ceiling anchorages for rod hangers consist of embedded struts, shell type anchors and building steel weldments.

The Limited Analytical Reviews (LARs) evaluate the seismic capability of the raceway supports which were selected as representative, worst case examples of the major types of raceway support configurations. Twelve (12) supports were selected for evaluation. The evaluations were performed per the guidelines in GIP Section 8.3.

Table 7.2 summarizes the LARs:

- The first column lists the ID used to track the LARs.
- The second column contains a brief description of the subject raceway support.
- The third column contains the maximum acceptable raceway weight for which the GIP acceptance criteria can be met. For trays, the weight is expressed in pounds per square foot (psf). For conduit, the weight is expressed as a percentage - 100% corresponds to the weights in GIP Section 8.3.9 for steel conduit.
- The fourth column contains the SRT's field estimate of the actual weight. For trays, the estimate is the SRT's conservative estimate of the actual percent fill and tray height scaled by the GIP Section 8.3.9 value of 25 psf for a 4" high tray with 100% fill, plus an upper bound value of 6.8 psf for the dead weight of a 6" x 30" tray with covers (scaled from Reference 5.8, 4" x 12" tray = 8.9 psf). For conduit, the "estimate" is always 100% fill. If the fill estimate (4th column) is less than the acceptable fill (3rd column), then the support meets the GIP's acceptance criteria.
- The fifth column lists the governing load case.

GIP Section 8.3.9 states: "*Conservative estimates should be made for the weights of other miscellaneous items attached to the raceway support, such as HVAC ducting, piping and lighting.*" The SRT did not observe any instances of significant additional weight due to attachments, therefore no additional weight was included in the LARs.

The Limited Analytical Review produced seven (7) outliers (LARs). They are discussed in Section 7.4. and shown in Table 7.2. The outliers are designated by shaded entries.

Table 7.2 Summary of the Limited Analytical Reviews

LAR #	Description	Acceptable Weight	Conservative Weight Estimate	Governing Load Case
LAR 001	5/8" field threaded rod trapeze, four (4) tiers with one (1) 30" tray/tier	16.7 psf	25.6 psf	3 x DL
	Gateway Insert anchorage - 20" to top tier	12.5 psf	25.6 psf	Rod Fatigue
	Welded anchorage to Building Steel - 20" to top tier	12.5 psf	25.6 psf	Rod Fatigue
LAR 002	Floor-ceiling-wall steel angle frame, 6 tiers with one (1) 30" tray/tier	68.8 psf	25.6 psf	Dead Load
LAR 003	5/8" field threaded rod trapeze, one (1) tier with one (1) 30" tray, unequal rod lengths - 16" and 39" to top tier	48	16.2 psf	Dead Load
LAR 004	5/8" field threaded rod trapeze, four (4) tiers with one (1) 36" tray/tier, 12" to top tier			
	Gateway Insert anchorage	18.8 psf	25.6 psf	3 x Dead Load
	Welded anchorage to Building Steel	25.0 psf	25.6 psf	Rod Fatigue
LAR 005	Floor-to-ceiling, two (2) bay steel angle support, left bay has twelve (12) tiers, right bay has four (4) tiers. Each bay has one (1) 44" tray/tier	18.8 psf	24.1 psf	3 x Dead Load
LAR 006	5/8" field threaded rod trapeze, two (2) tiers with one (1) 30" tray/tier, 8" to top tier	<10 psf	25.6 psf	Rod Fatigue
LAR 007	5/8" field threaded rod trapeze, 4 (4) tiers with one (1) 30" tray/tier, unequal rod lengths - 12" and 36" to top tier	16.7	44.3 psf	Rod Fatigue
	Gateway Insert anchorage	22.2 psf	25.6 psf	3 x DL
LAR 008	5/8" field threaded rod trapeze, two (2) bays with three (3) tiers each and one (1) 30" tray/tier, 120" to top tier			
	Gateway Insert anchorage	14.8 psf	34.9 psf	3 x Dead Load
	Welded anchorage to Building Steel	20 psf	34.9 psf	Rod Fatigue
LAR 009	1/2" field threaded rod trapeze supporting 16" dia. conduit duct, 24" to "top tier"	98 #/ft	TBD	Rod Fatigue
LAR 010	Rigid wall mounted support, three (3) tiers with one (1) 12" tray/tier	231 psf	16.2 psf	Dead Load
LAR 011	Wall - ceiling mounted two (2) bay 5/8" field threaded rod support, wall bay has six (6) tiers, far bay has two (2) tiers. Each bay has one (1) 30" tray/tier,			
	Gateway Insert anchorage	33 psf	25.6 psf	Dead Load
	Shell anchorage	46 psf	25.6 psf	Dead Load
	Welded anchorage to Building Steel	63 psf	25.6 psf	Dead Load
LAR 012	Wall - floor mounted steel angle support, eight (8) tiers with one (1) 36" tray/tier, five (5), 3/4", four (4) 2-1/2" and three (3) 4" conduit supported by the post	35 psf	34.9 psf	Dead Load

Summary of Outliers

A total of 10 outliers resulted from the cable and conduit raceway reviews. A description of each raceway outlier is provided in Table 7.3. Of the ten outliers, seven outliers resulted from the limited analytical reviews of which five have been resolved analytically, while three outliers were identified from the walkdowns.

The unresolved LAR (LAR 007) represents a common case at Dresden of short rod hangers interspersed among longer hangers, or numerous, consecutive short rod hangers. Short rod hangers are generally those with 12" or less of "clear height", the distance between the anchorage point and the first (top-most) tier. This situation cannot be limited to one system or hanger and more walkdowns will be performed to identify the extent of this type of hanger configuration. The unresolved LAR (LAR 009) is unresolved because the actual fill weight inside the conduit is not known. A capacity of 98 lb/ft has been calculated and must be compared to the actual weight.

Table 7.3 Raceway Outliers

ID and Location	Outlier Issues
Unit 2 Battery Room Area LAR 001	An enveloping support in the Unit 2 Battery Room area was chosen for limited analytical review. The support is a 4-tier, rod hung trapeze supporting 4 trays. The support has two different types of ceiling anchorages: embedded strut and weldment to building steel. The embedded strut does not pass the vertical capacity check (3 times dead load). The rods do not pass the rod fatigue checks per Section 8.3.5 of the GIP. Resolution: This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes. Dresden rod fatigue data obtained from actual cyclic testing of the Dresden field threaded rods including the weldment anchorage plate from SEP Project 8050 (Ref. 27) was used to evaluate the rods. Based on the "Generic Rod Acceptability Curves", it was shown that the Dresden rods will sustain the SSE demand loads.
Auxiliary Electrical Equipment Room LAR 004	An enveloping support in the Auxiliary Electrical Equipment Room was chosen for limited analytical review. The support is a four tier rod hung trapeze supporting 4 trays. The support has two different types of ceiling anchorages: embedded strut and weldment to building steel. The loads for the embedded strut version exceed the allowables for the vertical capacity check. The loads for the welded attachment to building steel version exceed, by a negligible amount; thus, the rod fatigue check is considered acceptable. Resolution: This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes.
Unit 2, Turbine Building LAR 005	The main "spine" of the cables connecting the Reactor building with the Control room. A large two-bay system carrying 12 - 44" trays in one bay (one side) and 4 - 44" trays on the other side in a floor-to-ceiling system. The bolting connections at the ceiling connection (anchorage) do not pass the vertical capacity check. Resolution: This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes.
Unit 3, Turbine Building LAR 006	An enveloping support in the Unit 3 Turbine Building, El. 538, was chosen for limited analytical review. The support is a two tier, rod hung trapeze supporting 2 trays. The support anchorage is weldment to building steel. The support loads exceed the allowables for the rod fatigue check. Resolution: This outlier is resolved by outlier analysis. A redundancy and consequence analysis per Section 8.4.8 was performed and the hanger passes. Dresden

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	rod fatigue data obtained from actual cyclic testing of the Dresden field threaded rods including the weldment anchorage plate from SEP Project 8050 (Ref. 27) was used to evaluate the rods. Based on the "Generic Rod Acceptability Curves", it was shown that the Dresden rods will sustain the SSE demand loads.
Unit 2 Turbine Building LAR 007	An enveloping support in the Unit 2 Turbine Building, El. 517, was chosen for limited analytical review. The support is a four tier, rod hung trapeze supporting 4 trays. The support anchorage is an embedded strut. The support loads exceed the allowables for the rod fatigue check.
Unit 2 and Unit 3 Reactor Building, (including D/G Room) LAR 008	An enveloping support in the Reactor Building, El. 517, was chosen for limited analytical review. The support is a two bay, three tier/bay, rod hung trapeze supporting 1 tray/tier. The support has two different types of ceiling anchorages: embedded strut and weldment to building steel. The loads for the embedded strut version exceed the allowables for the vertical capacity check. The loads for the welded attachment to building steel version exceed the allowables for the rod fatigue check. Resolution: This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes. Dresden rod fatigue data obtained from actual cyclic testing of the Dresden field threaded rods including the weldment anchorage plate from SEP Project 8050 (Ref. 27) was used to evaluate the rods. Based on the "Generic Rod Acceptability Curves", it was shown that the Dresden rods will sustain the SSE demand loads.
Unit 2 and Unit 3 Reactor Building, (including D/G Room) LAR 009	The support is a 1/2" field threaded rod trapeze supporting 16" dia. conduit duct, 24" to "top tier". The limiting seismic capacity based on rod fatigue is 98 lbs/ft. The actual weight (amount of cable inside the conduit) is currently unknown. Resolution: Determine actual weight per foot of the conduit and compare to the 98 lbs.ft. capacity.
Crib House RACE009	Several trays above the 2A & 2B CIRC water pumps are heavily corroded due to water leaking in from the cable penetrations. The corrosion does not affect the anchorage (penetrations are below the anchor point), so the hangers won't collapse, but the trays should be "cleaned up". Resolution: Inspect and Evaluate Corrosion Concerns
Unit 2 Turbine Building (including D/G Room), El. 517 RACE010	The hangers at the entrance to the turbine building, east of the track bay, are rod hung on one side and bolted to a strut embedded in a block wall on the other side. This will remain an outlier pending resolution of the following issues: 1. How are the embedded struts anchored? 2. Was the wall evaluated in the 80-11 effort? 3. Was the weight of the tray included in the block wall evaluation? Resolution: Resolve open issues and complete analysis.
Unit 2 and Unit 3 Corner Rooms and Torus RACE016	Inclusion Rule Review #2: A 1" conduit from MOV MO-3-1501-20A to the tray above is missing its conduit clamps, thereby resulting in an overspan and a maintenance outlier. Other Seismic Performance Concern Review #4. There is a tube steel conduit support stand at the unit 2 torus, at TE-2-1641-200 (bay 16), in standing water with its base plate and tube steel base corroded. Failure of the stand under seismic lateral load could damage the connection at the temperature element, therefore it is an outlier. There is a similar situation and concern at bay 14. Also, at the unit 2 torus basement outer wall, 4 small diameter conduit which are 7' to 8' off the floor have been heavily corroded due to seepage. This is probably not SSEL cabling, but it should be checked. Resolution: Replace Missing Conduit Clamps / Inspect and Evaluate Corrosion

8. Outliers and Proposed Resolution

This section discusses the outliers identified during the USI A-46 walkdowns conducted at Dresden. The outliers are identified from the Twenty Classes of Equipment discussed in Section 4, the Tanks & Heat Exchangers Review discussed in Section 6, and the Cable Tray & Conduit Raceway Review given in Section 7. Relay outliers are discussed in the Dresden Relay Evaluation Report [21].

An outlier is an item of equipment which does not comply with all of the screening guidelines provided in the GIP. The GIP screening guidelines are intended to be used as a generic basis for evaluating the seismic adequacy of equipment. If an item of equipment fails to pass these generic screens, it may still be shown to be adequate by additional evaluations.

Finally, a discussion of the disposition or corrective action, as appropriate, for each outlier is discussed in Tables 8.1 and 8.2, below. The resolution number identified for each outlier can be cross referenced to Appendix I. Appendix I provides proposed resolutions, completion dates and Nuclear Tracking System (NTS) numbers for each unresolved outlier. For resolved outliers, Appendix I provides their resolutions and completion dates.

**TABLE 8.1
GENERIC OUTLIER ISSUES**

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
G1	numerous (specifically identified in Table 8.2 below)	Supply cabinets, copies, tables, carts, tool boxes, etc. are found near/adjacent to SSEL equipment.	Better seismic "housekeeping" needs to be implemented by the plant. RESOLUTION # 5

**TABLE 8.2
A46 EQUIPMENT OUTLIERS**

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
A1	Hydraulic Control Unit D02-0305-----H20 D03-0305-----H20	1) No seismic capacity based on earthquake experience or generic seismic testing ruggedness data is available for class 0 equipment. 2) Nearby gas bottles are restrained by only a single chain.	1) Unit consists of accumulator and valves which are in the earthquake experience and generic seismic testing ruggedness data. Rack load path and anchorage are separately analyzed and are OK. CRD piping and scram header very well seismically supported. Thus, outlier is resolved. RESOLUTION #11

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ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
			2) Gas bottles need a second chain near the bottom. RESOLUTION #1
A2	Bus and Panel D02-8302A----M05	Locker/storage cabinet located next to bus on rear side.	Positively anchor locker or re-locate it. RESOLUTION #5
A3	Motor Control Center D03-7839-2----M05	Adjacent MCC 35-1 does not meet criteria (only tack welded in rear).	Anchorage modification needed. RESOLUTION #9
A4	Bus and Panel D02-8302A----M05 D02-83125----P06	Seismic demand exceeds capacity.	Develop realistic, median amplified floor spectra to potentially reduce seismic demand to an acceptable level. RESOLUTION #11
A5	Bus and Panel D03-8303A----M05 D03-8303B----M05 D03-83125----P06 D02-8302B----M05	1) Seismic demand exceeds capacity. 2) Embedded angle pullout capacity is insufficient to hold down the cabinet during the event of SSE.	1&2) Develop realistic, median amplified floor spectra to potentially reduce seismic demand to an acceptable level. RESOLUTION #11
A6	Switchgear D02-67241----S35	Spare Breakers are too close	Relocate Spare Breakers. RESOLUTION #5
A7	Motor Control Center D02-7829-8----M05	Overhead unanchored emergency light # 251C (battery powered).	Positively secure emergency light. RESOLUTION #3
A8	Panel D02-8302B-1---P06 D02-83125-1---P06	A 6' long (tall) cable tray raceway system hanger which is rod hung and laterally unbraced may sufficiently displace to impact the Panel.	Determine whether or not panel(s) contains essential relays. If it does, brace raceway to preclude impact potential. RESOLUTION #6
A9	Panel D03-8303A1-2-P06	1) Lights overhead have open hooks. 2) D.G. stack rises adjacent to panel and is a potential interaction hazard.	1) Close Open S-Hooks. RESOLUTION #2 2) Evaluate seismic structural integrity of exhaust stack RESOLUTION #6.

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ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
A10	Motor Control Center D02-7829-2----M05	1) Nearby gas bottles secured by only 1 chain. 2) Lights overhead have open hooks. 3) Unrestrained flammable storage cabinet adjacent to MCC.	1) Gas bottles need a second chain near the bottom. RESOLUTION #1 2) Close open S-hooks. RESOLUTION #2 3) Positively anchor cabinet or re-locate. RESOLUTION #5
A11	Panel D03-8303B1----P06 D03-9802-A----P06 D03-9802-B----P06	1) Lights overhead have open hooks. 2) Emergency light #329 (battery powered) not secured.	1) Close open S-Hooks. RESOLUTION #2 2) Positively secure emergency light. RESOLUTION #3
A12	Panel D03-8303A1-1--P06 D03-83125-3---P06	Lights overhead have open hooks.	Close open S-Hooks. RESOLUTION #2
A13	Motor Control Center and Panel D02-7828-3----M05 D02-7829-4----M05 D03-7838-2----M05 D03-7838-3----M05 D02-2202-0073A D02-2202-0073B D03-2203-0006 D02-2252-0084	Lights overhead have open hooks.	Close open S-Hooks. RESOLUTION #2
A14	Motor Control Center and Panel D02-7828-7----M05 D02-83250-----M05 D02-9802-A----P06 D03-7838-1-1--P06	Nearby gas bottles only restrained by a single chain	Gas bottles need a second chain near the bottom. RESOLUTION #1
A15	Panel D02-0902-0015 D02-0902-0017 D02-0902-0019 D02-0902-0036 D03-0903-0015 D03-0903-0017 D03-0903-0019 D03-0903-0036	The internal cable tray raceway system hanger is rod hung and transversely unrestrained. It can displace sufficiently to impact the Panel which has only 1" clearance from the end of the cross-member. Cabinets do contain essential relays.	Restrain cross-members by "tying" them to front and back panels to preclude impact hazard as well as connecting front and rear portions of the main control board increasing anchorage capacity seismic margin. Crimp light hooks. RESOLUTION #6

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
	D02-0902-0004 D03-0903-0004		
A16	Panel D03-0903-0046	1) Located adjacent to a conduit pull-box and it is an impact hazard. 2) Adjacent tool box judged a hazard.	1) Insert neoprene or similar soft material between pull-box and cabinet to reduce significance of impact. RESOLUTION #6 2) Re-locate storage tool box. RESOLUTION #5
A17	Panel and Transformer D02-2202-0008 D02-7229-----T10 D02-0902-0041	Adjacent emergency lights #293, #299, #220, and #313 (battery powered) are missing straps or are unrestrained.	Positively restrain emergency lights. RESOLUTION #3
A18	Battery Charger D03-9802-3BNEGB05 D03-9802-3BPOSB05	Overhead emergency light #329 (battery powered) is shelf mounted and unrestrained.	Positively restrain emergency light. RESOLUTION #3
A19	Switchgear D02-7328-----S35 D02-7329-----S35	1) Overhead trolley hoist is an impact hazard and needs to be parked. 2) Emergency light #299 (battery powered) not restrained.	1) Use a clamp or similar device to prevent the hoist from rolling freely. RESOLUTION #4 2) Secure emergency light. RESOLUTION #3
A20	Switchgear D03-7338-----S35	Overhead trolley hoist, open S-hook on overhead florescent light and racking crank hanging between breaker and transformer are all impact hazards.	1) Use a clamp or similar device to prevent the hoist from rolling freely. RESOLUTION #4 2) Close open S-Hooks. RESOLUTION #2 3) Secure or re-locate crank. RESOLUTION #5
A21	Switchgear D03-7339-----S35	Overhead trolley hoist, open S-hook on overhead florescent light, racking crank hanging between breaker and transformer and adjacent unanchored 4KV gear box locker are all impact hazards.	1) Use a clamp or similar device to prevent the hoist from rolling freely. RESOLUTION #4 2) Close open S-Hooks. RESOLUTION #2 3) Secure or re-locate crank. RESOLUTION #5 4) Anchor or re-locate locker. RESOLUTION #5

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
A22	Switchgear D03-6734-----S35	Safety equipment locker adjacent to cubicle, spare breakers marginally chained to wall, and additional unanchored spare cubicles 5' away from line-up are interaction hazards.	1) Anchor or re-locate locker. RESOLUTION #5 2) Secure or re-locate spare breakers. RESOLUTION #5
A23	Panel D03-2203-0070A D03-2203-0070B D02-0902-0033 D02-2202-0070A D02-2202-0070B D02-0902-0039 D02-0902-0047 D03-0903-0047 D03-0903-0032	1) Panel is not bolted to adjacent panel 2) Panel D03-0903-0052 is missing a bolt and is adjacent to Safe Shutdown Panels D03-903-32	1) Determine whether or not panel(s) contains essential relays. If they do, connect (bolt) panels together to preclude impact potential. RESOLUTION #8 2) Repair/Replace Bolt RESOLUTION #14
A24	Panel D02-0902-0046	Panel not bolted to adjacent "low boy" console.	Determine whether or not panel(s) contains essential relays. If they do, connect (bolt) panels together to preclude impact potential. RESOLUTION #8
A25	Panel D02-0902-0028	1) One anchor projected out and loose. 2) There is 1/4" gap between the panel and the surface of the concrete and panel contains essential relays.	1) The loose anchor has been fixed. RESOLUTION #14 2) Shim the gap to close it. RESOLUTION #6
A26	Panel D03-0903-0033	1) Panel is not bolted to adjacent panel. 2) There is 1/8" gap between the panel and the surface of the concrete and panel contains essential relays.	1) Determine whether or not panel(s) contains essential relays. If they do, connect (bolt) panels together to preclude impact potential. RESOLUTION #8 2) Shim the gap to close it. RESOLUTION #6
A27	Cooler D03-5746-A----H15 D03-5746-B----H15 D02-5746-A----H15 D02-5746-B----H15	The attached piping does not have enough flexibility.	Coolers are rod hung and thus flexible. Laterally restrain coolers to preclude piping rupture potential or evaluate effects of loss of service water inventory and loss of cooling capability. RESOLUTION #7

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
A28	Battery Charger D03-8300--3---B05	Anchorage is inadequate (2 clips).	Evaluate and add rear anchorage, as needed. RESOLUTION #9
A29	Battery Charger D00-83250-0---B05 D02-83250-2---B05	Unanchored.	Evaluate and add needed anchorage. RESOLUTION #9
A30	Vertical Pump D02-1502-A---P30 D02-1502-B---P30 D02-1502-C---P30 D02-1502-D---P30	Nozzle loads should be considered in the ANCHOR evaluation but information on nozzle loads are incomplete.	Provide nozzle loads for evaluation. RESOLUTION #9
A31	Horizontal Pump D03-1501-0044AP30 D03-1501-0044BP30 D03-1501-0044CP30 D03-1501-0044DP30	Piping vertically supported but has very little lateral restraint and therefore piping loads should be considered in evaluating the anchorage but information on nozzle loads is incomplete.	Provide nozzle loads for evaluation. RESOLUTION #9
A32	Valve D02-2301-0005-V20 D03-2301-0005-V20 D03-2301-0008-V20	3G analysis shows yoke overstress.	Obtain valve extended operator accelerations from IE79-14 piping analysis and evaluate for actual demand accelerations. RESOLUTION #11
A33	Valve D02-0302-0019AV27	The conduit coming from the valve was open exposing the wires.	Repair conduit. RESOLUTION #14
A34	Horizontal Pump D02-5203-----P30 D03-5203-----P30	Unrestrained emergency light #209 (battery powered) is overhead.	Positively secure emergency light. RESOLUTION #3
A35	Switchgear D02-6723-----S35 D02-6724-----S35	1) Spare breakers are too close. 2) Open hooks on light fixtures is overhead.	1) Relocate spare breakers. RESOLUTION #5 2) Close S-hooks. RESOLUTION #2
A36	Switchgear D02-67231----S35 D02-67341----S35	1) A safety equipment locker immediately adjacent to switchgear is an interaction hazard. 2) PCB storage tank behind switchgear is rod hanger restrained at mid-height. It is	1) Positively anchor locker or relocate it. RESOLUTION #5 2) Close upper and lower sight glass valves to prevent loss of oil if the glass breaks, or restrain bottom

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ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
		a flooding hazard because of sight glass at bottom and essential relays in SWGR	of tanks to preclude it from moving. RESOLUTION #7
A37	Panel D03-2203-0073A D03-2203-0073B	1) Overhead heater has only support rod and should have two. Thus, it is an impact hazard. 2) Overhead lighting has one open S-hook and is an impact hazard. 3) Overhead fire line is judged not to be seismically qualified by SRT. It is a flooding hazard because of essential relays inside panel.	1) Repair overhead heater support. RESOLUTION #14 2) Close lighting S-hook. RESOLUTION #2 3) Seismically evaluate fire piping and determine status. RESOLUTION #7
A38	Valve D03-0302-0157AV05	Suction line of pump (4-1/2" in diameter) touches the valve yoke.	Restrain line so it cannot impose force onto the valve. RESOLUTION #6
A39	Valve D03-1501-0032BV20	The pipe operator extends above floor grating. A 3/4" clearance exists between the grating and the operator and a potential interference may exist.	Determine piping displacement from IE79-14 piping analysis and compare to available clearance. RESOLUTION #6
A40	Panel D02-2252-0010 D02-2252-0021	Base channel is secured to floor by 4 friction clips (one in each corner). Neighboring Neutral Grounding Cabinet is secured by friction clips.	Modify anchorage to an acceptable, positive anchorage design. RESOLUTION #10
A41	Panel D00-NGC	Panel is right against a column support on one side and an adjacent panel on the other.	Determine whether or not panel(s) contains essential relays. If they do, connect (bolt) panels together to preclude impact potential. Insert neoprene or like material between column and panel, or positively secure panel to column. RESOLUTION #6
A42	Panel D00-2223-0033 D00-2223-0041	Panel is too close to two adjacent panels that it is not bolted to.	Determine whether or not panel(s) contains essential relays. If they do, connect (bolt) panels together to preclude impact potential. RESOLUTION #8

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
A43	Damper D03-5772-0102-D05	1) Damper hung in poorly supported ductwork (already sagging). 2) Overhead light has open S-Hooks.	1) Repair ductwork. RESOLUTION #14 2) Close S-Hooks. RESOLUTION #2
A44	Battery Rack D02-9802-A----B04 D02-9802-B----B04 D03-9802-A----B04 D03-9802-B----B04	1) There are spaces between the batteries and along the front and back of the batteries. 2) The battery cells are more than 10 years old.	1) Tighten battens so they are snug (1/16" or less gap) or insert spacers to make up the gaps. RESOLUTION #12 2) Determine qualified life of cells or replace. RESOLUTION #13
A45	Battery Rack D02-8300--BC--B04 D02-83250----B04 D03-8300--BC--B04 D03-83250----B04	The Styrofoam, on the front and back, is not full-height and could easily slip out during a seismic event.	Insert "full height" Styrofoam spacers, or secure (glue or tie) spacers to rack (or battery cells) so that they cannot slide out. RESOLUTION #12
A46	CCSW Pump Cooler D02-5700-0030AH15 D02-5700-0030BH15 D02-5700-0030CH15 D02-5700-0030DH15 D03-5700-0030AH15 D03-5700-0030BH15 D03-5700-0030CH15 D03-5700-0030DH15	Bolt type is not covered by the GIP - Cinch Anchor.	Capacity of Cinch Anchor is based on "Lead Expansion Anchor Load Capacity in Reactor Building at the Savannah River Site", Westinghouse Savannah River Company, RTR-2661, Aug. 15, 1989 (Refs. 22 & 23). The resulting anchorage capacity was shown to exceed the design basis seismic demand loads and outlier is resolved. RESOLUTION #10
A47	Switchgear D03-67331-----S35	Spare breakers which are unanchored are potential interaction hazards.	Secure or re-locate spare breakers. RESOLUTION #5
A48	Vertical Tank D00-3303-A----T05	Tank is supported by ring foundation.	Evaluate ring foundation. RESOLUTION #9
A49	Horizontal Tank D00-5202-----T05	Sight glass of tank is an interaction issue	Evaluate sight glass inertial strength. RESOLUTION #6

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ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
A50	Heat Exchanger D02-1503-A----H15 D03-1503-A----H15 D02-1503-B----H15 D03-1503-B----H15	ComEd is evaluating the support steel. A-46 evaluation pending the review and any modification to be made to this support.	Modify support steel. RESOLUTION #9
A51	Accumulator D02-4798-A----A10	The accumulator has one bolt missing.	Install (repair) missing bolt. RESOLUTION #14
A52	Cntrl Panel / DG Excit D03-2252-0021-P06	Neighboring Neutral Grounding Cabinet is secured by friction clips.	Modify anchorage to an acceptable, positive anchorage design. RESOLUTION #10
A53	Panel D02-2202-0006-P06	Overhead light is only secured by one chain	Fix overhead light RESOLUTION #14
A54	Cable Tray & Conduit Raceway Systems LAR001	An enveloping support in the Unit 2 Battery Room area was chosen for limited analytical review. The support is a 4-tier, rod hung trapeze supporting 4 trays. The support has two different types of ceiling anchorages: embedded strut and weldment to building steel. Loads exceed the allowables for the rod fatigue check.	This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes. Dresden rod fatigue data obtained from actual cyclic testing of the Dresden field threaded rods including the weldment anchorage plate from SEP Project 8050 (Ref. 27) was used to evaluate the rods. Based on the "Generic Rod Acceptability Curves", it was shown that the Dresden rods will sustain the SSE demand loads. RESOLUTION #15
A55	Cable Tray & Conduit Raceway Systems LAR004	An enveloping support in the Auxiliary Electrical Equipment Room was chosen for limited analytical review. The support is a four tier rod hung trapeze supporting 4 trays. The support has two different	This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes. RESOLUTION #15

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
		types of ceiling anchorages: embedded strut and weldment to building steel. The loads for the embedded strut version exceed the allowables for the vertical capacity check. The loads for the welded attachment to building steel version exceed, by a small amount, the allowables for the rod fatigue check and are considered acceptable.	
A56	Cable Tray & Conduit Raceway Systems LAR 005	The main "spine" of the cables connecting the Reactor building with the Control room. A large two-bay system carrying 12 - 44" trays in one bay (one side) and 4 - 44" trays on the other side in a floor-to-ceiling system. The bolting connections at the ceiling connection (anchorage) do not pass the vertical capacity check.	This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes. RESOLUTION #15
A57	Cable Tray & Conduit Raceway Systems LAR006	An enveloping support in the Unit 3 Turbine Building, El. 538, was chosen for limited analytical review. The support is a two tier, rod hung trapeze supporting 2 trays. The support anchorage is weldment to building steel. The support loads exceed the allowables for the rod fatigue check.	This outlier is resolved by outlier analysis. A redundancy and consequence analysis per Section 8.4.8 was performed and the hanger passes. Dresden rod fatigue data obtained from actual cyclic testing of the Dresden field threaded rods including the weldment anchorage plate from SEP Project 8050 (Ref. 27) was used to evaluate the rods. Based on the "Generic Rod Acceptability Curves", it was shown that the Dresden rods will sustain the SSE demand loads. RESOLUTION #15
A58	Cable Tray & Conduit Raceway Systems LAR007	An enveloping support in the Unit 2 Turbine Building, El. 517, was chosen for limited analytical review. The support is a four tier, rod hung trapeze supporting 4 trays. The support	Use Blume Report methodology to qualify support for rod fatigue. RESOLUTION #15

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
		anchorage is an embedded strut. The support loads exceed the allowables for the rod fatigue check.	
A59	Cable Tray & Conduit Raceway Systems LAR008	An enveloping support in the Reactor Building, El. 517, was chosen for limited analytical review. The support is a two bay, three tier/bay, rod hung trapeze supporting 1 tray/tier. The support has two different types of ceiling anchorages: embedded strut and weldment to building steel. The loads for the embedded strut version exceed the allowables for the vertical capacity check. The loads for the welded attachment to building steel version exceed the allowables for the rod fatigue check.	This outlier is resolved by outlier analysis. A limit analysis per Section 8.4.8 was performed and the hanger passes. Dresden rod fatigue data obtained from actual cyclic testing of the Dresden field threaded rods including the weldment anchorage plate from SEP Project 8050 (Ref. 27) was used to evaluate the rods. Based on the "Generic Rod Acceptability Curves", it was shown that the Dresden rods will sustain the SSE demand loads. RESOLUTION #15
A60	Cable Tray & Conduit Raceway Systems LAR009	The support is a 1/2" field threaded rod trapeze supporting 16" dia. conduit duct, 24" to "top tier". The limiting seismic capacity based on rod fatigue is 98 lbs/ft. The actual weight (amount of cable inside the conduit) is currently unknown.	Determine actual weight per foot of the conduit and compare to the 98 lbs.ft. capacity. RESOLUTION #15
A61	Crib House RACE009	Several trays above the 2A & 2B CIRC water pumps are heavily corroded due to water leaking in from the cable penetrations. The corrosion does not affect the anchorage (penetrations are below the anchor point), so the hangers won't collapse, but the trays should be "cleaned up".	Inspect and Evaluate Corrosion concerns. RESOLUTION #15
A62	Unit 2 Turbine Building (including D/G Room), El. 517 RACE010	The hangers at the entrance to the turbine building, east of the track bay, are rod hung on one side and bolted to a strut embedded in a block wall on the other side.	Resolve open issues and complete analysis. RESOLUTION #15

USI A-46 Seismic Evaluation
Dresden Nuclear Station, Units 2 & 3

ID	EQUIPMENT	OUTLIER FINDING	RESOLUTION
		This will remain an outlier pending resolution of the following issues: 1. How are the embedded struts anchored? 2. Was the wall evaluated in the 80-11 effort? 3. Was the weight of the tray included in the block wall evaluation?	
A63	Unit 2 and Unit 3 Corner Rooms and Torus RACE016	Inclusion Rule Review #2: A 1" conduit from MOV MO-3-1501-20A to the tray above is missing its conduit clamps, thereby resulting in an overspan and a maintenance outlier. Other Seismic Performance Concern Review #4. There is a tube steel conduit support stand at the unit 2 torus, at TE-2-1641-200 (bay 16), in standing water with its base plate and tube steel base corroded. Failure of the stand under seismic lateral load could damage the connection at the temperature element, therefore it is an outlier. There is a similar situation and concern at bay 14. Also, at the unit 2 torus basement outer wall, 4 small diameter conduit which are 7' to 8' off the floor have been heavily corroded due to seepage. This is probably not SSEL cabling, but it should be checked.	Replace Missing Conduit Clamps / Inspect and Evaluate Corrosion Concerns. RESOLUTION #15

9. References

1. Generic Letter 87-02, "Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46", USNRC, Washington, D.C., February 19, 1987.
2. "Generic Implementation Procedure (GIP), for Seismic Verification of Nuclear Station Equipment", Revision 2, Corrected, 2/14/92, Seismic Qualification Utility Group.
3. "Supplemental Safety Evaluation Report No. 2 (SSER #2) on GIP-2", USNRC, Washington, D.C., May 22, 1992.
4. USI A-40 "Seismic Design Criteria Short-Term Program", USNRC, Washington, D.C.
5. USI A-17 "Systems Interactions In Nuclear Power Plants" USNRC, Washington, D.C.
6. ComEd Response to GL 87-02, Supplement 1 on SQUG Resolution of USI A-46 Dresden Nuclear Power Station, Units 2 and 3, Quad Cities Nuclear Power Station, Units 1 and 2, and Zion Nuclear Power Station, Units 1 and 2, Letter to USNRC, dated September 21, 1992.
7. USNRC Letter "Evaluation of Dresden Nuclear Power Station, Units 2 and 3, Quad Cities Nuclear Power Station, Units 1 and 2, and Zion Nuclear Power Station, Units 1 and 2, 120-day Response to Supplement No. 1 to Generic Letter 87-02 (TAC Nos. M69442, M69443, M69476, M69477, M69492 and M69493)", C. P. Patel (USNRC) to T. J. Kovach (ComEd), dated November 20, 1992, AND USNRC Letter "Evaluation of Dresden Nuclear Power Station, Units 2 & 3, and Quad Cities Station, Units 1 & 2, Procedure for Developing In-Structure Response Spectra for Resolution of USI A-46 (TAC NOS. M69442, M69443, M69476 and M69477) (USNRC) to D.L. Farrar (ComEd), dated June 6, 1993.
8. ComEd, "Updated Final Safety Analysis Report for Dresden Nuclear Station, Units 2 and 3.
9. SPECTRA Software Package, Stevenson & Associates, Version 2, November, 1992.
10. EPRI Report NP-7146, "Development of In-Cabinet Amplified Response Spectra for Electrical Panels and Benchboards." Revision 0, Electric Power Research Institute, Palo Alto, CA, prepared by Stevenson & Associates, December, 1990.
11. "Cable and Conduit Raceway Limited Analytical Review (LAR) for USI A-46 at Dresden Nuclear Station" Calc. 93C2806.03-C-002, Rev.0, 93C2806.03 by Stevenson and Associates.

12. SQUG Letter from N.P. Smith, SQUG Chairman to J.G. Partlow of USNRC, *Subject: Revision 2A to the Generic Implementation Procedure*, dated March 26, 1993.
13. SSRAP Report, "Use of Seismic Experience Data to Show Ruggedness of Equipment in Nuclear Power Plants," Senior Seismic Review and Advisory Panel, Revision 4.0, February 28, 1991.
14. ComEd Company, Dresden Nuclear Station - Drawings. (Dwg. numbers are specified where referenced).
15. EPRI Report NP-5228-SL, "Seismic Verification of Nuclear Station Equipment Anchorage (Revision 1)." Electric Power Research Institute, Palo Alto, CA, prepared by URS/John A. Blume & Associates, Engineers, June, 1991.
16. ACI 318-83, "Building Code Requirements for Reinforced Concrete", American Concrete Institute, 1983.
17. EPRI Report NP-6041-SL, "A Methodology for Assessment of Nuclear Power Plant Seismic Margin (Revision 1).", Electric Power Research Institute, Palo Alto, CA, prepared by JR Benjamin Associates et. al., August, 1991.
19. ANCHOR 3.0 Software Package (with Verification and Users Manuals), Rev.0, 8/16/90 by Stevenson and Associates.
20. ComEd, "Safe Shutdown Equipment List (SSEL) Report for Dresden Nuclear Station, Units 2 and 3", Rev. 0, June 1996.
21. ComEd Dresden Nuclear Station Units 2 and 3, "USNRC USI A-46 Resolution, Relay Evaluation Report," Rev. 0, June 1996.
22. West, D. A. and Griffin, M. J., "Lead Expansion Anchor Load Capacity," Current Issues Related to Nuclear Power Plant Structures, Equipment, and Piping, Proceedings of the Fifth Symposium, Orlando, Florida, December 1994.
23. Westinghouse Savannah River Company, "Lead Expansion Anchor Load Capacity in Reactor Buildings at the Savannah River Site," August 15, 1989.
24. URS/J.A. Blume & Associates, "Shaking Table-Testing for Seismic Evaluation of Electrical Raceway Systems, April 1983
25. F. Elsabee, S. Anagnostis, and W. Djordjevic, "Seismic Evaluation of Electrical Raceway Systems," proceedings, ASME Boiler and Pressure Vessel Conference, ASME Paper 83-PVP-18, Portland, Oregon, June, 1983
26. URS/John A. Blume & Associates "Analytical Techniques, Models, and Seismic Evaluation of Electrical Raceway Systems", August 1983.
27. URS/John A. Blume & Associates, "Seismic Investigations of Electric Raceways at the SEP Plants", June 1984.

28. ComEd Letter to NRC, "NRC Evaluation of the Commonwealth Edison Response to Generic Letter 87-02, Supplement 1, "Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors", SQUG Resolution of USI A-46, dated January 15, 1993.

10. APPENDICES

Appendix A1. Composite Safe Shutdown Equipment List
A2. Seismic Review Safe Shutdown List

Appendix B: Seismic Design Basis Spectra

Appendix C: Walkdown Personnel Resumes

Appendix D: Screening Verification Data Sheets (SVDS)

Appendix E: Peer Review Assessment

**Appendix F: Anchor Bolt Tightness and Embedment
Checks**

Appendix G: Operations Review / Operating Procedures

Appendix H: Peer Review of Safe Shutdown Systems

Appendix I: Outlier Resolution Tracking Sheets

APPENDIX A1

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) SAFE SHUTDOWN EQUIPMENT LIST (SSEL) COMPOSITE LIST

The following is a listing of the components that comprise the Seismic Qualification Utilities Group (SQUG) Safe Shutdown Equipment List (SSEL) composite list. This list contains all equipment, including those that are passive and manual which are included on the list for completeness only. The information that has been generated on this list, was done so following the methodology discussed in section 2. This list is sorted by line number.

SEISMIC QUALIFICATION STUDIES GROUP (SQUG)
SAFE SHUTDOWN-EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/05/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
05001	2	I	D00-3932-0500-V15	SERVICE WATER/ DG Cooling Pump Suction Line Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Open	Open	No	N/A	N/A	S
05002	2	I	D00-3932-0501-V15	SERVICE WATER/ DG Cooling Pump Suction Line Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Closed	Closed	No	N/A	N/A	S
05003	2	I	D03-3932-0321-V15	SERVICE WATER/ DG Cooling Pump Suction Tie Line Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Closed	Closed	No	N/A	N/A	S
05004	2	I	D00-3999-0375-V15	SERVICE WATER/ DG Cooling Pump Suction Instrument Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Closed	Closed	No	N/A	N/A	S
05005	2	5	D00-3903-----P30	SERVICE WATER/ Diesel Generator Cooling Water Pump	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	SR	Off	On	Yes	12E-2351B-1/ AF	MOTIVE-MCC 2(3)8-3 CONTROL-MCC 2(3)8-3, 125V DC TB Main Bus #2A-1, 3A-1	S
05006	2	R	D00-3930-0501-V25	SERVICE WATER/ DG Cooling Pump Discharge Check Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Closed	Operbl.	No	N/A	N/A	S
05007	2	I	D00-3930-0500-V15	SERVICE WATER/ DG Cooling Pump Discharge Line Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Open	Open	No	N/A	N/A	S
05008	2	I	D00-3999-0087-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Closed	Closed	No	N/A	N/A	S
05009	2	I	D00-3999-0088-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	N/A	Closed	Closed	No	N/A	N/A	S
05010	2	18	D00-3941-0898--FE	SERVICE WATER/ DG Cooling Pump Discharge Flow Element	M-355/ PC/ B-7	Reactor	504' 6"	N/44-46	N/A	N/A	N/A	No	N/A	N/A	S
05011	2	I	D00-3941-0897-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-355/ PC/ B-7	Reactor	504' 6"	N/44-46	N/A	Closed	Closed	No	N/A	N/A	S
05012	2	I	D00-3930-0525-V18	SERVICE WATER/ Diesel Generator Cooling 3-Way Valve	M-355/ PC/ C-7	Reactor	504' 6"	N/44-46	N/A	Open	Open	No	N/A	N/A	S
05013	2	I	D00-3931-0525-V18	SERVICE WATER/ Diesel Generator Cooling 3-Way Valve	M-355/ PC/ C-7	Reactor	504' 6"	N/44-46	N/A	Open	Open	No	N/A	N/A	S
05014	2	I	D00-3933-0501-V15	SERVICE WATER/ DG Cooling Water Tie Line Valve	M-355/ PC/ B-5	Reactor	504' 6"	N/44-46	N/A	Closed	Closed	No	N/A	N/A	S
05015	3	I	D00-3999-0337-V15	SERVICE WATER/ RCU Supply Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Open	Open	No	N/A	N/A	S
05016	3	R	D00-3999-0336-V25	SERVICE WATER/ RCU Supply Line Check Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Closed	Operbl.	No	N/A	N/A	S
05017	3	I	D00-3999-0335-V15	SERVICE WATER/ RCU Supply Tie Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Closed	Closed	No	N/A	N/A	S
05018	3	I	D00-3999-0334-V15	SERVICE WATER/ RCU Supply Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION TIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT NOTES		OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
05019	3	I	D00-3999-0333-V15	SERVICE WATER/ RCU Supply Tie Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A		Closed	Closed	No	N/A	N/A	S
05020	3	7	D00-5741-00488V72	CONTROL ROOM VENTILATION/ Service Water Supply Valve	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32 SR			Closed	Operbl.	Yes	12E-6811D/ 6	MOTIVE/CONTROL-N/A	S
05021	3	I	D02-9400-0126-F22	CONTROL ROOM VENTILATION/ Supply Restricting Orifice	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32 N/A			N/A	N/A	No	N/A	N/A	S
05022	3	I	D02-9400-0127-F22	CONTROL ROOM VENTILATION/ Supply Restricting Orifice	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32 N/A			N/A	N/A	No	N/A	N/A	S
05023	3	11	D00-9400-0102-R15	CONTROL ROOM VENTILATION/ Refrigeration Condensing Unit	M-3121/ 10/ B-4	Turbine	534' 0"	VENT RM2/3 G/32 SR	1,6		Off	Operbl.	Yes	12E-6811J/ 3	MOTIVE/CONTROL-MCC 29-8	S
05024	3	I	D00-5799-0332-V74	CONTROL ROOM VENTILATION/ Return Line Valve	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32 N/A			Open	Open	No	N/A	N/A	S
05025	3	R	D00-5741-0062-FCV	CONTROL ROOM VENTILATION/ Return Line Control Valve	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32 N/A			Open	Operbl.	No	N/A	N/A	S
05026	3	I	D00-3999-0331-V15	SERVICE WATER/ RCU Return Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A		Open	Open	No	N/A	N/A	S
05027	3	I	D00-3999-0330-V15	SERVICE WATER/ RCU Return Tie Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A		Closed	Closed	No	N/A	N/A	S
05028	3	18	D00-5741C0072--FI	SERVICE WATER/ RCU Return Tie Line Local Flow Indicator	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A		N/A	N/A	No	N/A	N/A	S
05029	3	I	D00-3999-0329-V15	SERVICE WATER/ RCU Return Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A		Open	Open	No	N/A	N/A	S
05030	1	21	D00-3303-A----T05	CONDENSATE/ Contaminated Condensate Storage Tank A	M-35-1/ CH/ E-5	N/A	Grade	N/A	S		N/A	N/A	No	N/A	N/A	S
05031	1	I	D00-3327-0501AV15	CONDENSATE/ Condensate Tank A Supply Line Valve	M-35-1/ CH/ E-5	N/A	Grade	N/A	N/A		Open	Open	No	N/A	N/A	S
05032	1	I	D00-3327-0500AV15	CONDENSATE/ Condensate Tank A Supply Line Valve	M-35-1/ CH/ E-5	N/A	Grade	N/A	N/A		Open	Open	No	N/A	N/A	S
05033	OP	21	D00-3303-B----T05	CONDENSATE/ Contaminated Condensate Storage Tank B	M-35-1/ CH/ E-4	N/A	Grade	N/A	S		N/A	N/A	No	N/A	N/A	S
05034	OP	R	D00-2301-0012-V15	CONDENSATE/ Condensate Tank B Supply Line Valve	M-35-1/ CH/ E-5	N/A	Grade	N/A	N/A		Closed	Open	No	N/A	N/A	S
05035	OP	I	D00-2399-0106-V15	CONDENSATE/ Condensate Tank B Supply Drain Valve	M-35-1/ CH/ E-5	N/A	Grade	N/A	N/A		Closed	Closed	No	N/A	N/A	S
05036	OP	R	D00-3327-0500AV15	CONDENSATE/ Condensate Tank A Supply Line Valve	M-35-1/ CH/ E-5	N/A	Grade	N/A	N/A		Open	Closed	No	N/A	N/A	S
05037	3	I	D00-1599-0100-V15	CCSW/ RCU Supply Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
05038	3	I	D00-1599-0101-V15	CCSW/ RCU Supply Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Open	Open	No	N/A	N/A	S
05039	3	I	D00-2320-----S22	CCSW/ RCU Supply Line Strainer	M-3121/ 10/ C-2	Turbine	549' 0"	G-H/31	N/A	N/A	N/A	No	N/A	N/A	S
05040	3	I	D00-1599-0102-V15	CCSW/ RCU Supply Line Drain Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Closed	Closed	No	N/A	N/A	S
05041	3	R	D00-1599-0103-V25	CCSW/ RCU Supply Line Check Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Closed	Operbl.	No	N/A	N/A	S
05042	3	7	D00-5741-0048AV72	CONTROL ROOM VENTILATION/ CCSW Cooling Supply Valve	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32 SR		Closed	Operbl.	Yes	12E-6811D/ 6	MOTIVE-N/A CONTROL-MCC 29-8	S
05043	3	I	D00-1599-0104-V15	CCSW/ RCU Supply Line Valve	M-3121/ 10/ B-2	Turbine	549' 0"	G-H/31	N/A	Open	Open	No	N/A	N/A	S
05044	2	17	D00-6601-----G05	DIESEL GENERATOR/ Diesel Engine Driven Generator	M-518-2/ C/ C-3	Reactor	504' 6"	DG RM2/3 N/46	SR	Off	On	No	M-41-2/ Q M-173/ AF M-974/ F 12E-2337/ Q	MOTIVE-Diesel Fuel Oil, S Start Up Air, DG Ventilation CONTROL-125V DC Pnl #2, 3	S
05045	2	21	D00-5201-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Tank	M-41-2/ Q/ C-3	N/A	BGrade	N/A	S	N/A	N/A	No	N/A	N/A	S
05046	2	1	D00-5201B0500-V15	DIESEL GENERATOR/ Fuel Oil Tank Suction Line Valve	M-41-2/ Q/ C-3	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S
05047	2	5	D00-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	M-41-2/ Q/ D-2	Reactor	504' 6"	DG RM2/3 N/46	SR	Off	Operbl.	Yes	12E-2351B-1/ AF	MOTIVE-MCC 2(3)8-3 CONTROL-MCC 2(3)8-3, 125V DC TB Main Bus #2A-1, 3A-1	S
05048	2	I	D00-5299-0209-V15	DIESEL GENERATOR/ Transfer Pump Instrument Line Valve	M-41-2/ Q/ C-2	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S
05049	2	I	D00-5299-0208-V15	DIESEL GENERATOR/ Transfer Pump Instrument Drain Valve	M-41-2/ Q/ C-2	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
05050	2	18	D00-5241-0002--PI	DIESEL GENERATOR/ Transfer Pump Pressure Indicator	M-41-2/ Q/ C-2	Reactor	504' 6"	DG RM2/3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
05051	2	R	D00-5202B0501-V25	DIESEL GENERATOR/ Transfer Pump Relief Line Check Valve	M-41-2/ Q/ C-2	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
05052	2	R	D00-5202B0500-V26	DIESEL GENERATOR/ Transfer Pump Relief Valve	M-41-2/ Q/ C-2	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
05053	2	I	D00-5202-0500-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ C-2	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
05054	2	R	D00-5202A0501-V25	DIESEL GENERATOR/ Transfer Pump Discharge Check Valve	M-41-2/ Q/ C-1	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
05055	2	I	D00-5202A0500-V15	DIESEL GENERATOR/ Transfer Pump Discharge Line Valve	M-41-2/ Q/ C-1	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
05056	2	21	D00-5202-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Day Tank	M-41-2/ Q/ D-2	Turbine	517' 6"	DG RM2/3 N/46	S 5	N/A	N/A	No	N/A	N/A	S
05057	2	18	D00-5241-0005--LS	DIESEL GENERATOR/ Fuel Oil Day Tank Level Switch	M-41-2/ Q/ D-3	Turbine	517' 6"	DG RM2/3 N/46	BR	N/A	N/A	No	N/A	N/A	S
05058	1	I	D02-6663-----F10	DIESEL GENERATOR/ Fuel Day Tank Supply Line Strainer	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	N/A	N/A	No	N/A	N/A	S
05059	1	5	D02-6664-----P30	DIESEL GENERATOR/ Fuel Oil Engine Driven Supply Pump	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	B	Off	On	No	N/A	N/A	S
05060	2	I	D00-5206-0500-V15	DIESEL GENERATOR/ Fuel Oil Day Tank Supply Line Valve	M-41-2/ Q/ D-2	Turbine	517' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S
05061	2	I	D00-5299-0205-V15	DIESEL GENERATOR/ Fuel Day Tank Supply Line Drain Valve	M-41-2/ Q/ D-2	Turbine	517' 6"	DG RM2/3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
05062	2	I	D00-6699-121--V15	DIESEL GENERATOR/ Supply Line Shutoff Valve	M-518-2/ C/ C-6	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S
05063	1	I	D02-6699-124--V15	DIESEL GENERATOR/ Fuel Oil Instrument Line Valve	M-518-1/ C/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	N/A	S
05064	1	I	D02-6641-0011--PI	DIESEL GENERATOR/ Fuel Oil Pressure Indicator	M-518-1/ C/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	N/A	N/A	No	N/A	N/A	S
05065	2	5	D00-6665-----P30	DIESEL GENERATOR/ Fuel Oil Priming Pump	M-518-2/ C/ C-6	Reactor	504' 6"	DG RM2/3 N/46	BR	Off	On	Yes	12E-2351A-1/ AM RB Distribution Panel #2, 3	MOTIVE/CONTROL-125V DC	S
05066	2	R	D00-6699-122--V25	DIESEL GENERATOR/ Fuel Oil Priming Pump Check Valve	M-518-2/ C/ C-6	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
05067	1	I	D02-6666-----F10	DIESEL GENERATOR/ Fuel Day Tank Return Line Strainer	M-518-1/ C/ D-5	Turbine	517' 6"	DG RM2 G-H/35	N/A	N/A	N/A	No	N/A	N/A	S
05068	2	R	D00-6699-123--V16	DIESEL GENERATOR/ Fuel Oil Pressure Regulating Valve	M-518-2/ C/ D-6	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Operbl.	No	N/A	N/A	S
05069	2	R	D00-6699-125A-V16	DIESEL GENERATOR/ Fuel Bypass Pressure Regulating Valve	M-518-2/ C/ D-5	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Operbl.	No	N/A	N/A	S
05070	2	R	D00-6699-125B-V16	DIESEL GENERATOR/ Fuel Bypass Pressure Regulating Valve	M-518-2/ C/ D-5	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Operbl.	No	N/A	N/A	S
05071	2	R	D00-6699-126--V25	DIESEL GENERATOR/ Fuel Oil Return Line Check Valve	M-518-2/ C/ C-6	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
05072	2	12	D00-4600-B----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	M-173/ AF/ D-3	Reactor	504' 6"	DG RM2/3 N/46	S 6	N/A	N/A	No	N/A	N/A	S
05073	2	12	D00-4600-C----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	M-173/ AF/ D-4	Reactor	504' 6"	DG RM2/3 N/46	S 6	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
05074	2	12	D00-4600-G----	T05 DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	M-173/ AF/ D-5	Reactor	504' 6"	DG RM2/3 N/46	S	6	N/A	N/A	No	N/A	N/A	S
05075	2	12	D00-4600-H----	T05 DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	M-173/ AF/ D-6	Reactor	504' 6"	DG RM2/3 N/46	S	6	N/A	N/A	No	N/A	N/A	S
05076	2	I	D00-4699-0184-V15	DIESEL GENERATOR/ Air Receiver Unit "A1" Drain Valve	M-173/ AF/ E-3	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05077	2	I	D00-4699-0185-V15	DIESEL GENERATOR/ Air Receiver Unit "A2" Drain Valve	M-173/ AF/ E-4	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05078	2	I	D00-4699-0186-V15	DIESEL GENERATOR/ Air Receiver Unit "B1" Drain Valve	M-173/ AF/ E-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05079	2	I	D00-4699-0187-V15	DIESEL GENERATOR/ Air Receiver Unit "B2" Drain Valve	M-173/ AF/ E-6	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05080	2	I	D00-4699-0188-V15	DIESEL GENERATOR/ Air Receiver Unit "A1" Drain Valve	M-173/ AF/ E-3	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
05081	2	I	D00-4699-0189-V15	DIESEL GENERATOR/ Air Receiver Unit "A2" Drain Valve	M-173/ AF/ E-4	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
05082	2	I	D00-4699-0190-V15	DIESEL GENERATOR/ Air Receiver Unit "B1" Drain Valve	M-173/ AF/ E-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
05083	2	I	D00-4699-0191-V15	DIESEL GENERATOR/ Air Receiver Unit "B2" Drain Valve	M-173/ AF/ E-6	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
05084	2	I	D00-4699-0306-V15	DIESEL GENERATOR/ Air Receiver "A1" Instrument Valve	M-173/ AF/ E-3	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05085	2	I	D00-4699-0307-V15	DIESEL GENERATOR/ Air Receiver "A2" Instrument Valve	M-173/ AF/ E-4	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05086	2	I	D00-4699-0308-V15	DIESEL GENERATOR/ Air Receiver "B1" Instrument Valve	M-173/ AF/ E-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05087	2	I	D00-4699-0309-V15	DIESEL GENERATOR/ Air Receiver "B2" Instrument Valve	M-173/ AF/ E-6	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S
05088	2	R	D00-4699-0313AV26	DIESEL GENERATOR/ Air Receiver "A1" Relief Valve	M-173/ AF/ E-3	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Operbl.	No	N/A	N/A	S
05089	2	R	D00-4699-0314AV26	DIESEL GENERATOR/ Air Receiver "A2" Relief Valve	M-173/ AF/ E-4	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Operbl.	No	N/A	N/A	S
05090	2	R	D00-4699-0313BV26	DIESEL GENERATOR/ Air Receiver "B1" Relief Valve	M-173/ AF/ E-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Operbl.	No	N/A	N/A	S
05091	2	R	D00-4699-0314BV26	DIESEL GENERATOR/ Air Receiver "B2" Relief Valve	M-173/ AF/ E-6	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Operbl.	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
05092	2	I	D00-4699-0311AV25	DIESEL GENERATOR/ Air Receivers "A" Supply Check Valve	M-173/ AF/ F-4	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S	
05093	2	I	D00-4699-0311BV25	DIESEL GENERATOR/ Air Receivers "B" Supply Check Valve	M-173/ AF/ F-6	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S	
05094	2	R	D00-4699-0312-V25	DIESEL GENERATOR/ Air Receivers "A" Outlet Check Valve	M-173/ AF/ C-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Operbl.	No	N/A	N/A	S	
05095	2	R	D00-4699-0316-V25	DIESEL GENERATOR/ Air Receivers "B" Outlet Check Valve	M-173/ AF/ C-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Operbl.	No	N/A	N/A	S	
05096	2	I	D00-4699-0192-V15	DIESEL GENERATOR/ Air Receivers "A" Outlet Line Valve	M-173/ AF/ C-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05097	2	I	D00-4699-0193-V15	DIESEL GENERATOR/ Air Receivers "B" Outlet Line Valve	M-173/ AF/ C-5	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05098	2	I	D00-4699-0194-V15	DIESEL GENERATOR/ Air Filter "A" Inlet Line Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05099	2	I	D00-4600-E----F10	DIESEL GENERATOR/ Air Start Filter "A"	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		N/A	N/A	No	N/A	N/A	S	
05100	2	I	D00-4699-0195-V15	DIESEL GENERATOR/ Air Filter "A" Outlet Line Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05101	2	I	D00-4699-0196-V15	DIESEL GENERATOR/ Air Filter "B" Inlet Line Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05102	2	I	D00-4600-D----F10	DIESEL GENERATOR/ Air Start Filter "B"	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		N/A	N/A	No	N/A	N/A	S	
05103	2	I	D00-4699-0197-V15	DIESEL GENERATOR/ Air Filter "B" Outlet Line Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05104	2	I	D00-4699-0198-V15	DIESEL GENERATOR/ Air Filter Bypass Line Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S	
05105	2	I	D00-4699-0199-V15	DIESEL GENERATOR/ Air Receiver Outlet Instrument Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05106	2	18	D00-4641-0006-DPS	DIESEL GENERATOR/ Air Receiver Diff. Pressure Switch	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		N/A	N/A	No	N/A	N/A	S	
05107	2	I	D00-4699-0200-V15	DIESEL GENERATOR/ Air Receiver Outlet Instrument Valve	M-173/ AF/ D-7	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Open	No	N/A	N/A	S	
05108	2	R	D00-4699-0315-V10	DIESEL GENERATOR/ Air Start Pressure Regulating Valve	M-173/ AF/ A-9	Reactor	504' 6"	DG RM2/3 N/46	N/A		Open	Operbl.	No	N/A	N/A	S	
05109	2	I	D00-6699-0100-V15	DIESEL GENERATOR/ Air Start Strainer Blowdown Valve	M-173/ AF/ A-9	Reactor	504' 6"	DG RM2/3 N/46	N/A		Closed	Closed	No	N/A	N/A	S	

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
05110	2	I	D00-6699-0102-V15	DIESEL GENERATOR/ Air Start Cutoff Valve	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S
05111	2	R	D00-6699-0103-V27	DIESEL GENERATOR/ Air Start Solenoid Valve	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	R	Open	Operbl.	Yes	12E-2351A-1/	AM MOTIVE/CONTROL-125V DC RB Distribution Panel #2, 3	S
05112	2	R	D00-6699-0104-V25	DIESEL GENERATOR/ Air Start Check Valve	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
05113	2	R	D00-6699-0105-V05	DIESEL GENERATOR/ Air Start Air Operated Valve	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Operbl.	No	N/A	N/A	S
05114	2	I	D00-6699-0106-M01	DIESEL GENERATOR/ Air Start Lubricator	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
05115	2	R	D00-6699-0107-M01	DIESEL GENERATOR/ Air Start Lower Air Driven Motor	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Off	On	No	N/A	N/A	S
05116	2	R	D00-6699-0108-M01	DIESEL GENERATOR/ Air Start Upper Air Driven Motor	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Off	On	No	N/A	N/A	S
05117	2	I	D00-6699-0133-V15	DIESEL GENERATOR/ Air Start Instrument Line Valve	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Open	Open	No	N/A	N/A	S
05118	2	I	D00-6699-0134-V15	DIESEL GENERATOR/ Air Start Vent Valve	M-173/ AF/ A-10	Reactor	504' 6"	DG RM2/3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
05119	2	10	D00-5772-0100-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ D-3	Reactor	504' 6"	DG RM2/3 N/46	S	Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
05120	2	88	D00-5790-0003AV10	DIESEL GENERATOR/ Vent. Fan Inlet Damper Solen. Oper.	M-974/ F/ E-3	Reactor	504' 6"	DG RM2/3 N/46	S	Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
05121	2	9	D00-5790-----F10	DIESEL GENERATOR/ Room Ventilation Fan	M-974/ F/ D-3	Reactor	504' 6"	DG RM2/3 N/46	SR	Off	On	Yes	12E-2351B-2/ 12E-2351B-3/	AM MOTIVE-MCC 2(3)8-1 CONTROL-MCC 2(3)8-1, 125V DC TB Main Bus #2A-1, 3A-1	S
05122	2	10	D00-5772-0101-D05	DIESEL GENERATOR/ Ventilation Fan Outlet Damper	M-974/ F/ D-3	Reactor	504' 6"	DG RM2/3 N/46	S	Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
05123	2	88	D00-5790-0003BV10	DIESEL GENERATOR/ Vent. Fan Outlet Damper Solen. Oper.	M-974/ F/ E-3	Reactor	504' 6"	DG RM2/3 N/46	S	Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
05124	2	88	D00-5790--EP2-V27	DIESEL GENERATOR/ Vent. Fan Dampers Solenoid Valve	M-974/ F/ E-3	Reactor	504' 6"	DG PNL 2223-56	SR	Open	Closed	Yes	12E-2351B-2/ 12E-2351B-3/	AM MOTIVE-MCC 2(3)8-1 CONTROL-MCC 2(3)8-1, 125V DC TB Main Bus #2A-1, 3A-1	S
05125	3	10	D00-5741-0058-D05	CONTROL ROOM VENTILATION/ AFU Inlet Damper	M-3121/ 10/ D-8	Turbine	534' 0"	VENT RM2/3 G/32	SR 1	Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE/CONTROL-MCC 29-8	S
05126	3	11	D00-9400-0101-F10	CONTROL ROOM VENTILATION/ Air Filtration Unit	M-3121/ 10/ D-6	Turbine	534' 0"	VENT RM2/3 G/32	SR 1,5,6	Off	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
05127	3	9	D00-9400-0104AF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	M-3121/ 10/ D-6	Turbine	534' 0"	VENT RM2/3 G/32 SR	1,6	Off	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05128	3	9	D00-9400-0104BF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	M-3121/ 10/ D-6	Turbine	534' 0"	VENT RM2/3 G/32 SR	6	Off	Off	No	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05129	3	10	D00-5741-0055-D05	CONTROL ROOM VENTILATION/ AFU Booster Fan Outlet Damper	M-3121/ 10/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 SR	1	Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05130	3	10	D00-5741-0056-D05	CONTROL ROOM VENTILATION/ AFU Booster Fan Outlet Damper	M-3121/ 10/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 SR		Closed	Closed	No	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05131	3	10	D00-5741-0059BD05	CONTROL ROOM VENTILATION/ AHU Inlet Damper	M-3121/ 10/ B-5	Turbine	534' 0"	VENT RM2/3 G/32 SR		Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05132	3	10	D00-9400-0100-F05	CONTROL ROOM VENTILATION/ Air Handling Unit	M-3121/ 10/ B-7	Turbine	534' 0"	VENT RM2/3 G/32 SR	6	Off	Operbl.	Yes	12E-6811A/ 5	MOTIVE/CONTROL-MCC 29-8	S
05133	3	10	D00-5741-0059AD05	CONTROL ROOM VENTILATION/ AHU Outlet Damper	M-3121/ 10/ B-5	Turbine	534' 0"	VENT RM2/3 G/32 SR		Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05134	3	R	D00-9472-0105-D05	CONTROL ROOM VENTILATION/ AHU Outlet Backdraft Damper	M-3121/ 10/ B-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		Closed	Operbl.	No	N/A	N/A	S
05135	3	I	D00-9472-0108-D05	CONTROL ROOM VENTILATION/ AHU Outlet Damper	M-3121/ 10/ B-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		Open	Open	No	N/A	N/A	S
05136	3	10	D00-5741-0054CD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ D-5	Turbine	549' 0"	H/32	S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
05137	3	10	D00-5741-0054DD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ D-5	Turbine	549' 0"	H/32	S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
05138	3	10	D00-5741-0054AD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ D-5	Turbine	549' 0"	H/32	S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
05139	3	I	D00-9400-0001-S22	CONTROL ROOM VENTILATION/ Control Room Inlet Silencer	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		N/A	N/A	No	N/A	N/A	S
05140	3	I	D00-9400-0002-S22	CONTROL ROOM VENTILATION/ Control Room Inlet Silencer	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		N/A	N/A	No	N/A	N/A	S
05141	3	I	D00-9472-0148-D05	CONTROL ROOM VENTILATION/ Room Inlet Fire Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		Open	Open	No	N/A	N/A	S
05142	3	I	D00-9472-0150-D05	CONTROL ROOM VENTILATION/ Room Inlet Fire Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		Open	Open	No	N/A	N/A	S
05143	3	I	D00-9472-0151-D05	CONTROL ROOM VENTILATION/ Room Inlet Fire Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		Open	Open	No	N/A	N/A	S
05144	3	I	D00-9472-0152-D05	CONTROL ROOM VENTILATION/ Room Inlet Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32 N/A		Open	Open	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
05145	3	I	D00-9472-0154-D05	CONTROL ROOM VENTILATION/ Room Inlet Fire Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32	N/A		Open	Open	No	N/A	N/A	S
05146	3	I	D00-9472-0153-D05	CONTROL ROOM VENTILATION/ Room Outlet Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32	N/A		Open	Open	No	N/A	N/A	S
05147	3	I	D00-9472-0149-D05	CONTROL ROOM VENTILATION/ Room Outlet Fire Damper	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32	N/A		Open	Open	No	N/A	N/A	S
05148	3	I	D00-9400-0003-S22	CONTROL ROOM VENTILATION/ Control Room Outlet Silencer	M-273-1/ C/ D-5	Turbine	534' 0"	VENT RM2/3 G/32	N/A		N/A	N/A	No	N/A	N/A	S
05149	3	I	D00-9472-0159-D05	CONTROL ROOM VENTILATION/ Room Return Duct Fire Damper	M-273-1/ C/ D-3	Turbine	534' 0"	VENT RM2/3 G/32	N/A		Open	Open	No	N/A	N/A	S
05150	3	10	D00-5741-0054BD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ E-2	Turbine	549' 0"	H/32	S		Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
05151	3	88	D00-5741-0054-V27	CONTROL ROOM VENTILATION/ Train "A" Iso. Damper Solen.	M-273-1/ C/ E-2	Turbine	549' 0"	H/32	SR	1	Energ	Deenerg	No	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
05152	3	10	D00-5741-0057-D05	CONTROL ROOM VENTILATION/ AFU Recirculation Damper	M-3121/ 10/ B-7	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
08001	1	16	D00-83250-0---B05	250V DC/ Battery Charger #2/3	12E-2(3)321/ W(U)/ B-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-23898/ E	MOTIVE/CONTROL-MCC 29-2	S
09001	3	20	D00-9400-0102-P05	CONTROL PANELS/ RCU Control Panel	N/A	Turbine	534' 0"	VENT RM2/3 G/32	S	5	N/A	N/A	No	N/A	N/A	S
09002	3	20	D00-9400-0103-P05	CONTROL PANELS/ Control Cabinet 9400-103	N/A	Turbine	534' 0"	VENT RM2/3 G/32	S	5	N/A	N/A	No	N/A	N/A	S
09003	3	20	D00-9400-0105-P05	CONTROL PANELS/ Control Cabinet 9400-105	N/A	Turbine	534' 0"	VENT RM2/3 G/32	S	5,6	N/A	N/A	No	N/A	N/A	S
09004	3	20	D00-2223-0033-P05	CONTROL PANELS/ DG Relaying and Metering Cabinet	N/A	Reactor	504' 6"	DG RM2/3 N/46	S	5	N/A	N/A	No	N/A	N/A	S
09005	3	20	D00-2223-0041-P05	CONTROL PANELS/ DG Excitation Cabinet	N/A	Reactor	504' 6"	DG RM2/3 N/46	S	5	N/A	N/A	No	N/A	N/A	S
09006	3	20	D00-2223-0109-P05	CONTROL PANELS/ DG Cooling Pump Transfer Switch Status	N/A	Reactor	504' 6"	DG RM2/3 N/46	S	5,6	N/A	N/A	No	N/A	N/A	S
09007	3	20	D00-ACP	CONTROL PANELS/ Unit 2/3 Auxiliary Control Panel	N/A	Reactor	504' 6"	DG RM2/3 N/46	S	5,6	N/A	N/A	No	N/A	N/A	S
09008	3	20	D00-NGC	CONTROL PANELS/ Unit 2/3 Neutral Grounding Cabinet	N/A	Reactor	504' 6"	DG RM2/3 N/46	S	5	N/A	N/A	No	N/A	N/A	S
09009	3	3	D00-6740-----S35	4160V AC/ Switchgear 40	N/A	Reactor	504' 6"	DG RM2/3 N/46	SR	5	N/A	N/A	No	12E-6631/ G	MOTIVE/CONTROL-N/A	S
09010	3	20	D00-2223-0053-P05	CONTROL PANELS/ Diesel Generator Fire Protection Panel	N/A	Turbine	517' 6"	G/45	S	5	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
21001	3	0	D02-0305-----H20	CRD/ Hydraulic Control Unit	M-34-2/ B/ B-2	Reactor	517' 6"	J-K/38-39,43-44 S	3		N/A	N/A	No	N/A	N/A	S
21002	3	1	D02-0301-0117-V15	CRD/ Insertion Line Vent Valve	M-34-2/ B/ B-1	Reactor	517' 6"	J-L/38-39,43-44 N/A	3		Open	Open	No	N/A	N/A	S
21003	3	1	D02-0305-0101-V15	CRD/ Insertion Line Valve	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		Open	Open	No	N/A	N/A	S
21004	3	7	D02-0305-0126-V05	CRD/ Accumulator Insertion Scram Valve (ROB-HCU)	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU B	3		Closed	Open	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21005	3	1	D02-0305-0115-V25	CRD/ Accumulator Supply Line Check Valve	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		Closed	Closed	No	N/A	N/A	S
21006	3	1	D02-0305-0107-V25	CRD/ Accumulator Supply Line Drain Valve	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		Closed	Closed	No	N/A	N/A	S
21007	3	21	D02-0305-0125-A10	CRD/ Insertion Accumulator (ROB-HCU)	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU B	3		N/A	N/A	No	N/A	N/A	S
21008	3	21	D02-0305-0128-A10	CRD/ Insertion Accumulator (ROB-HCU)	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU B	3		N/A	N/A	No	N/A	N/A	S
21009	3	1	D02-0305-0111-V15	CRD/ Insertion Accumulator Instrument Line Valve	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		Open	Open	No	N/A	N/A	S
21010	3	18	D02-0305-0129--LS	CRD/ Insertion Accumulator Level Switch	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		N/A	N/A	No	N/A	N/A	S
21011	3	18	D02-0305-0130--PS	CRD/ Insertion Accumulator Pressure Switch	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		N/A	N/A	No	N/A	N/A	S
21012	3	18	D02-0305-0131--PI	CRD/ Insertion Accumulator Pressure Indicator	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU N/A	3		N/A	N/A	No	N/A	N/A	S
21013	3	1	D02-0305-0138-V25	CRD/ Accumulator Supply Line Check Valve	M-34-2/ B/ D-1	Reactor	517' 6"	In Hydraulic CU N/A	3		Closed	Closed	No	N/A	N/A	S
21014	3	88	D02-0305-0123-V15	CRD/ Hydraulic Control Unit Insertion Valve	M-34-2/ B/ D-1	Reactor	517' 6"	In Hydraulic CU R	3		Closed	Closed	No	12E-2414/ Z	MOTIVE/CONTROL-N/A	S
21015	3	88	D02-0305-0120-V15	CRD/ Hydraulic Control Unit Withdraw Valve	M-34-2/ B/ D-1	Reactor	517' 6"	In Hydraulic CU R	3		Closed	Closed	No	12E-2414/ Z	MOTIVE/CONTROL-N/A	S
21016	3	1	D02-0301-0119-V15	CRD/ Withdraw Line Vent Valve	M-34-2/ B/ B-2	Reactor	517' 6"	In Hydraulic CU N/A	3		Open	Open	No	N/A	N/A	S
21017	3	1	D02-0305-0102-V15	CRD/ Withdraw Line Valve	M-34-2/ B/ C-2	Reactor	517' 6"	In Hydraulic CU N/A	3		Open	Open	No	N/A	N/A	S
21018	3	7	D02-0305-0127-V05	CRD/ Withdraw to Scram Discharge Volume Valve (ROB-HCU)	M-34-2/ B/ D-2	Reactor	517' 6"	In Hydraulic CU B	2,3		Closed	Open	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21019	3	88	D02-0305-0122-V15	CRD/ Hydraulic Control Unit Withdraw Valve	M-34-2/ B/ D-2	Reactor	517' 6"	In Hydraulic CU R	3		Closed	Closed	No	12E-2414/ Z	MOTIVE/CONTROL-N/A	S
21020	3	88	D02-0305-0121-V15	CRD/ Hydraulic Control Unit Insertion Valve	M-34-2/ B/ D-2	Reactor	517' 6"	In Hydraulic CU R	3		Closed	Closed	No	12E-2414/ Z	MOTIVE/CONTROL-N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
21021	3	R	D02-0305-0114-V25	CRD/ HCU to SDV Line Check Valve	M-34-2/ B/ D-2	Reactor	517' 6"	In Hydraulic CU	N/A	3	Closed	Operbl.	No	N/A	N/A	S
21022	3	I	D02-0305-0112-V15	CRD/ HCU to SDV Line Valve	M-34-2/ B/ B-7	Reactor	517' 6"	In Hydraulic CU	N/A	3	Open	Open	No	N/A	N/A	S
21023	3	21	D02-0318-A----T05	CRD/ West Bank Scram Discharge Volume Tank	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/43-44	S		N/A	N/A	No	N/A	N/A	S
21024	3	21	D02-0318-B----T05	CRD/ East Bank Scram Discharge Volume Tank	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/38-39	S		N/A	N/A	No	N/A	N/A	S
21025	3	I	D02-0301-0141AV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-8	Reactor	517' 6"	J-L/43-44	N/A		Open	Open	No	N/A	N/A	S
21026	3	I	D02-0301-0142AV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		Open	Open	No	N/A	N/A	S
21027	3	I	D02-0301-0155AV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		Closed	Closed	No	N/A	N/A	S
21028	3	I	D02-0301-0154AV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ A-7	Reactor	517' 6"	J-L/43-44	N/A		Open	Open	No	N/A	N/A	S
21029	3	I	D02-0301-0153AV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-8	Reactor	517' 6"	J-L/43-44	N/A		Open	Open	No	N/A	N/A	S
21030	3	I	D02-0301-0151AV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ A-7	Reactor	517' 6"	J-L/43-44	N/A		Closed	Closed	No	N/A	N/A	S
21031	3	18	D02-0302-0109C-LT	CRD/ West Bank SDV Tank Level Transmitter	M-34-2/ B/ B-8	Reactor	517' 6"	J-L/43-44	N/A		N/A	N/A	No	N/A	N/A	S
21032	3	18	D02-0302-0082C-LS	CRD/ West Bank SDV Tank Level Switch	M-34-2/ B/ B-8	Reactor	517' 6"	J-L/43-44	N/A		N/A	N/A	No	N/A	N/A	S
21033	3	18	D02-0302-0108A-LE	CRD/ West Bank SDV Tank Level Element	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		N/A	N/A	No	N/A	N/A	S
21034	3	18	D02-0302-0082A-LS	CRD/ West Bank SDV Tank Level Switch	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		N/A	N/A	No	N/A	N/A	S
21035	3	18	D02-0302-0108E-LE	CRD/ West Bank SDV Tank Level Element	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		N/A	N/A	No	N/A	N/A	S
21036	3	18	D02-0302-0082E-LS	CRD/ West Bank SDV Tank Level Switch	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		N/A	N/A	No	N/A	N/A	S
21037	3	I	D02-0301-0141BV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		Open	Open	No	N/A	N/A	S
21038	3	I	D02-0301-0142BV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		Open	Open	No	N/A	N/A	S
21039	3	I	D02-0301-0155BV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
21040	3	I	D02-0301-0154BV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	Open	Open	No	N/A	N/A	S
21041	3	I	D02-0301-0153BV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	Open	Open	No	N/A	N/A	S
21042	3	I	D02-0301-0151BV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	Closed	Closed	No	N/A	N/A	S
21043	3	18	D02-0302-0109D-LT	CRD/ West Bank SDV Tank Level Transmitter	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	N/A	N/A	No	N/A	N/A	S
21044	3	18	D02-0302-0082D-LS	CRD/ West Bank SDV Tank Level Switch	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	N/A	N/A	No	N/A	N/A	S
21045	3	18	D02-0302-0108B-LE	CRD/ West Bank SDV Tank Level Element	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	N/A	N/A	No	N/A	N/A	S
21046	3	18	D02-0302-0082B-LS	CRD/ West Bank SDV Tank Level Switch	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	N/A	N/A	No	N/A	N/A	S
21047	3	18	D02-0302-0108F-LE	CRD/ West Bank SDV Tank Level Element	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	N/A	N/A	No	N/A	N/A	S
21048	3	18	D02-0302-0082F-LS	CRD/ West Bank SDV Tank Level Switch	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/43-44	N/A	N/A	N/A	No	N/A	N/A	S
21049	3	I	D02-0301-0141CV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A	Open	Open	No	N/A	N/A	S
21050	3	I	D02-0301-0142CV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A	Open	Open	No	N/A	N/A	S
21051	3	I	D02-0301-0155CV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A	Closed	Closed	No	N/A	N/A	S
21052	3	I	D02-0301-0154CV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ A-6	Reactor	517' 6"	J-L/38-39	N/A	Open	Open	No	N/A	N/A	S
21053	3	I	D02-0301-0153CV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ A-6	Reactor	517' 6"	J-L/38-39	N/A	Closed	Closed	No	N/A	N/A	S
21054	3	I	D02-0301-0151CV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ A-6	Reactor	517' 6"	J-L/38-39	N/A	Closed	Closed	No	N/A	N/A	S
21055	3	18	D02-0302-0109J-LT	CRD/ East Bank SDV Tank Level Transmitter	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A	N/A	N/A	No	N/A	N/A	S
21056	3	18	D02-0302-0082J-LS	CRD/ East Bank SDV Tank Level Switch	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A	N/A	N/A	No	N/A	N/A	S
21057	3	18	D02-0302-0108G-LE	CRD/ East Bank SDV Tank Level Element	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION PROPERTIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
21058	3	18	D02-0302-0082G-LS	CRD/ East Bank SDV Tank Level Switch	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21059	3	18	D02-0302-0108L-LE	CRD/ East Bank SDV Tank Level Element	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21060	3	18	D02-0302-0082L-LS	CRD/ East Bank SDV Tank Level Switch	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21061	3	I	D02-0301-0141DV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		Open	Open	No	N/A	N/A	S
21062	3	I	D02-0301-0142DV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		Open	Open	No	N/A	N/A	S
21063	3	I	D02-0301-0155DV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		Closed	Closed	No	N/A	N/A	S
21064	3	I	D02-0301-0154DV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		Open	Open	No	N/A	N/A	S
21065	3	I	D02-0301-0153DV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		Open	Open	No	N/A	N/A	S
21066	3	I	D02-0301-0151DV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		Closed	Closed	No	N/A	N/A	S
21067	3	18	D02-0302-0109K-LT	CRD/ East Bank SDV Tank Level Transmitter	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21068	3	18	D02-0302-0082K-LS	CRD/ East Bank SDV Tank Level Switch	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21069	3	18	D02-0302-0108H-LE	CRD/ East Bank SDV Tank Level Element	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21070	3	18	D02-0302-0082H-LS	CRD/ East Bank SDV Tank Level Switch	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21071	3	18	D02-0302-0108M-LE	CRD/ East Bank SDV Tank Level Element	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21072	3	18	D02-0302-0082M-LS	CRD/ East Bank SDV Tank Level Switch	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/38-39	N/A		N/A	N/A	No	N/A	N/A	S
21073	3	7	D02-0302-0161AV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	S		Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21074	3	88	D02-0302-0161AV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	SR		Deenerg	Energy	Yes	12E-68168/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21075	3	I	D02-0301-0163AV15	CRD/ West Bank SDV Vent Line Drain Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
21076	3	7	D02-0302-0160AV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21077	3	88	D02-0302-0160AV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	SR	Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21078	3	7	D02-0302-0161BV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21079	3	88	D02-0302-0161BV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39	SR	Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21080	3	I	D02-0301-0163BV15	CRD/ East Bank SDV Vent Line Drain Valve	M-34-2/ B/ B-5	Reactor	545' 6"	L/39	N/A	Closed	Closed	No	N/A	N/A	S
21081	3	7	D02-0302-0160BV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21082	3	88	D02-0302-0160BV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39	SR	Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21083	3	7	D02-0302-0157AV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-7	Reactor	476' 6"	TORUS BAY 8	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21084	3	88	D02-0302-0157AV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-7	Reactor	476' 6"	TORUS BAY 8	SR	Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21085	3	I	D02-0301-0165AV15	CRD/ West Bank SDV Drain Line Drain Valve	M-34-2/ B/ A-7	Reactor	476' 6"	TORUS BAY 8	N/A	Closed	Closed	No	N/A	N/A	S
21086	3	7	D02-0302-0158AV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-8	Reactor	476' 6"	TORUS BAY 8	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21087	3	88	D02-0302-0158AV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-8	Reactor	476' 6"	TORUS BAY 8	SR	Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21088	3	7	D02-0302-0157BV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
21089	3	88	D02-0302-0157BV27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3	SR	Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
21090	3	I	D02-0301-0165BV15	CRD/ East Bank SDV Drain Line Drain Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3	N/A	Closed	Closed	No	N/A	N/A	S
21091	3	7	D02-0302-0158BV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3	S	Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSSEL.DBF / 06/03/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM.2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. --> POWER SUPPORTING SYS. REQ'D INTERCONNECTIONS REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13) (14) (15) (16) (17)
21092	3	88	D02-0302-01588V27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-5	Reactor	476' 6"	TORUS BAY 3	SR	Deenerg Energy Yes 12E-6816B/ B MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50
21093	3	88	D02-0399-05248V27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-34-2/ B/ C-3	Reactor	517' 6"	L/39	R	Deenerg Deenerg No 12E-6582F/ J MOTIVE/CONTROL-N/A S
21094	3	88	D02-0399-0524AV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-34-2/ B/ C-3	Reactor	517' 6"	L/39	R	Deenerg Deenerg No 12E-6582F/ J MOTIVE/CONTROL-N/A S
21095	3	I	D02-0399-0525-V25	CRD/ ARI ATWS Solenoid Valve Bypass Check Valve	M-34-2/ B/ C-3	Reactor	517' 6"	L/39	N/A	Closed Closed No N/A N/A S
21096	3	88	D02-0399-0548AV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-34-2/ B/ E-2	Reactor	517' 6"	L/39	R	Deenerg Deenerg No 12E-6582F/ J MOTIVE/CONTROL-N/A S
21097	3	88	D02-0399-05488V27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-34-2/ B/ E-2	Reactor	517' 6"	L/39	R	Deenerg Deenerg No 12E-6582F/ J MOTIVE/CONTROL-N/A S
21098	3	88	D02-0399-0549AV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39	R	Deenerg Deenerg No 12E-6582F/ J MOTIVE/CONTROL-N/A S
21099	3	88	D02-0399-05498V27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39	R	Deenerg Deenerg No 12E-6582F/ J MOTIVE/CONTROL-N/A S
21100	3	88	D02-0305-0117-V27	CRD/ Pilot Solenoid For HCU Scram Valves (ROB-HCU)	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU BR	2,3	Energ Deenerg No 12E-2467-3/ AE MOTIVE/CONTROL-N/A S
21101	3	88	D02-0305-0118-V27	CRD/ Pilot Solenoid For HCU Scram Valves (ROB-HCU)	M-34-2/ B/ C-1	Reactor	517' 6"	In Hydraulic CU BR	2,3	Energ Deenerg No 12E-2467-3/ AE MOTIVE/CONTROL-N/A S
21102	3	88	D02-0302-0020AV27	CRD/ Scram Dump Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39	SR	Energ Deenerg No 12E-2465-2/ AD MOTIVE/CONTROL-N/A S
21103	3	88	D02-0302-00208V27	CRD/ Scram Dump Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39	SR	Energ Deenerg No 12E-2465-2/ AD MOTIVE/CONTROL-N/A S
21104	3	88	D02-0302-0019AV27	CRD/ Backup Scram Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39	SR	Deenerg Energy Yes 12E-2465-2/ AD MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1
21105	3	88	D02-0302-00198V27	CRD/ Backup Scram Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39	SR	Deenerg Energy Yes 12E-2465-2/ AD MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2B-1
21106	3	I	D02-0301-0122-V25	CRD/ Backup Scram Solenoid Valve Bypass Check Valve	M-34-2/ B/ B-4	Reactor	517' 6"	L/39	N/A	Closed Closed No N/A N/A S
21107	3	20	D02-0750-0001A-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-902-36)	12E-2452/ S	Turbine	534' 0"	C. RM PL 902-36 BR		Operbl. Operbl. Yes 12E-2452/ S MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #2A S
21108	3	20	D02-0750-0001B-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-902-36)	12E-2452/ S	Turbine	534' 0"	C. RM PL 902-36 BR		Operbl. Operbl. Yes 12E-2452/ S MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #2B S
21109	3	20	D02-0750-0001C-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-902-36)	12E-2452/ S	Turbine	534' 0"	C. RM PL 902-36 BR		Operbl. Operbl. Yes 12E-2452/ S MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #2A S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	Normal	Desired	REQD?	DWG. NO./REV.	(16)	(17)
21110	3	20	D02-0750-0001D-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-902-36)	12E-2452/ S	Turbine	534' 0"	C. RM PL 902-36	BR		Operbl.	Operbl.	Yes	12E-2452/ S	MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #28	S
21111	3	20	D02-0751-0000A-RE	NEUTRON MONITORING/ Source Range Detector	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21112	3	20	D02-0751-0000B-RE	NEUTRON MONITORING/ Source Range Detector	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21113	3	20	D02-0751-0000C-RE	NEUTRON MONITORING/ Source Range Detector	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21114	3	20	D02-0751-0000D-RE	NEUTRON MONITORING/ Source Range Detector	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21115	3	20	D02-0752-0000A-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21116	3	20	D02-0752-0000B-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21117	3	20	D02-0752-0000C-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
21118	3	20	D02-0752-0000D-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-2452/ S	Reactor	515' 5"	DRYWELL		N/A	Operbl.	Operbl.	No	N/A	N/A	S
22001	1	7	D02-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22002	1	7	D02-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22003	1	7	D02-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22004	1	7	D02-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22005	1	7	D02-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22006	1	7	D02-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22007	1	7	D02-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S
22008	1	7	D02-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL		N/A	Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
22009	1	88	D02-0203-0003AV26	ADS/ Target Rock Valve	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
22010	1	88	D02-0203-0003BV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
22011	1	88	D02-0203-0003EV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-6	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
22012	1	88	D02-0203-0003CV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ D-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
22013	1	88	D02-0203-0003DV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ B-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
22014	1	I	D02-4799-0427-V15	INSTRUMENT AIR/ Target Rock Accumulator Drain Valve	M-37-2/ RF/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
22015	1	21	D02-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-37-2/ RF/ D-8	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
22016	1	I	D02-4799-0281AV25	INSTRUMENT AIR/ Target Rock Accumulator Check Valve	M-37-2/ RF/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
22017	1	18	D02-0261-0037A-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22018	1	18	D02-0261-0037B-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22019	1	18	D02-0261-0037C-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22020	1	18	D02-0261-0014A-TE	ADS/ Target Rock Temperature Element	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22021	1	18	D02-0261-0014B-TE	ADS/ Electromatic Relief Valve Temperature Element	M-12-1/ NR/ D-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22022	1	18	D02-0261-0014E-TE	ADS/ Electromatic Relief Valve Temperature Element	M-12-1/ NR/ D-5	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22023	1	18	D02-0261-0014C-TE	ADS/ Electromatic Relief Valve Temperature Element	M-12-1/ NR/ C-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22024	1	18	D02-0261-0014D-TE	ADS/ Electromatic Relief Valve Temperature Element	M-12-1/ NR/ A-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22025	1	R	D02-0220-0105AV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22026	1	R	D02-0220-0105BV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
22027	1	R	D02-0220-0105CV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22028	1	R	D02-0220-0105DV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22029	1	R	D02-0220-0105EV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22030	1	R	D02-0299-0068AV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22031	1	R	D02-0299-0068BV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22032	1	R	D02-0299-0068CV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22033	1	R	D02-0299-0068DV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22034	1	R	D02-0299-0068EV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
22035	1	18	D02-0261-0001A-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22036	1	18	D02-0261-0001B-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22037	1	18	D02-0261-0001C-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22038	1	18	D02-0261-0001D-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22039	1	I	D02-0220-0011AV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22040	1	I	D02-0220-0012AV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22041	1	I	D02-0220-0011BV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22042	1	I	D02-0220-0012BV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22043	1	I	D02-0220-0011CV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22044	1	I	D02-0220-0012CV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22045	1	I	D02-0220-0011DV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22046	1	I	D02-0220-0012DV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
22047	1	R	D02-0220-0017AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
22048	1	R	D02-0220-0018AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22049	1	R	D02-0220-0017BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22050	1	R	D02-0220-0018BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22051	1	R	D02-0220-0017CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22052	1	R	D02-0220-0018CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22053	1	R	D02-0220-0017DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22054	1	R	D02-0220-0018DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
22055	1	7	D02-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
22056	1	88	D02-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
22057	1	88	D02-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
22058	1	7	D02-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
22059	1	88	D02-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
22060	1	88	D02-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
22061	1	7	D02-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
22062	1	88	D02-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
22063	1	88	D02-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
22064	1	7	D02-0203-0001DV05	MAIN STEAM, Isolation Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
22065	1	88	D02-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
22066	1	88	D02-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
22067	1	21	D02-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
22068	1	21	D02-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
22069	1	21	D02-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
22070	1	21	D02-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
22071	1	I	D02-0220-0084AV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
22072	1	I	D02-0220-0084BV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
22073	1	I	D02-0220-0084CV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
22074	1	I	D02-0220-0084DV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
22075	1	8A	D02-0220-0001-V20	MAIN STEAM/ Isolation Valve Line Drain Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	R		Closed	Closed	No	N/A	MOTIVE/CONTROL-N/A	S
22076	2	7	D02-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22077	2	18	D02-0261-0013A-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ E-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22078	2	7	D02-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22079	2	18	D02-0261-0013B-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ E-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22080	2	7	D02-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22081	2	18	D02-0261-0013C-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22082	2	7	D02-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22083	2	18	D02-0261-0013D-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
22084	2	7	D02-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22085	2	18	D02-0261-0013E-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22086	2	7	D02-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22087	2	18	D02-0261-0013F-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22088	2	7	D02-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22089	2	18	D02-0261-0013G-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22090	2	7	D02-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
22091	2	18	D02-0261-0013H-TE	ADS/ Overpressure Relief Valve Temperature Element	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22092	3	I	D02-0263-0013BM03	NUCLEAR BOILER/ Instrument Line Condensing Chamber	M-26-1/ AU/ E-4	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
22093	3	I	D02-0263-02188V15	NUCLEAR BOILER/ Instrument Line Valve	M-26-1/ AU/ C-4	Reactor	545' 6"	L-M/41-42	N/A		Open	Open	No	N/A	N/A	S
22094	3	R	D02-0263-02198V25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-26-1/ AU/ C-3	Reactor	545' 6"	L-M/41-42	N/A		Open	Operbl.	No	N/A	N/A	S
22095	3	18	D02-0263-0152B-PT	NUCLEAR BOILER/ Reactor Pressure Transmt. (ROB-2202-6)	M-26-1/ AU/ D-3	Reactor	545' 6"	L-M/41-42	B		N/A	N/A	No	N/A	N/A	S
22096	3	18	D02-0640-0027--UR	REACTOR LEVEL CONTROL/ Pressure Recorder (ROB-902-5)	M-26-1/ AU/ C-1	Turbine	534' 0"	C. RM PNL 902-5 B			On	On	Yes	12E-2418-1/ AM	MOTIVE-N/A CONTROL-120V S AC Essential Bus 902-49	S
23001	1	I	D00-2399-0106-V15	HPCI/ Condensate Tank Supply Line Drain Valve	M-35-1/ CH/ F-3	N/A	Grade	K/35	N/A		Closed	Closed	No	N/A	N/A	S
23002	1	I	D00-2301-0012-V15	HPCI/ Condensate Tank Crosstie Line Valve	M-35-1/ CH/ F-3	N/A	Grade	K/35	N/A		Closed	Closed	No	N/A	N/A	S
23003	1	8A	D02-2301-0006-V20	HPCI/ Condensate Tank Supply to HPCI Pump Valve	M-51/ AY/ F-2	Reactor	476' 6"	HP RM2 N/44	SR 1		Open	Operbl.	Yes	12E-2329-1/ AH	MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S
23004	1	R	D02-2301-0020-V25	HPCI/ HPCI Pump Suction Line Check Valve	M-51/ AY/ F-1	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Operbl.	No	N/A	N/A	S
23005	1	I	D02-2301-0056-V15	HPCI/ Suppression Pool Supply Line Valve	M-51/ AY/ E-9	Reactor	476' 6"	TORUS BSMT 13	N/A		Open	Open	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23006	1	I	D02-2301-0093-V15	HPCI/ Suppression Pool Supply Line Drain Valve	M-51/ AY/ E-9	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Closed	No	N/A	N/A	S
23007	1	8A	D02-2301-0036-V20	HPCI/ Suppression Pool Suction Line Valve	M-51/ AY/ E-9	Reactor	476' 6"	SW C.RM N/43-44	SR	1	Closed	Operbl.	Yes	12E-2530/ AA	MOTIVE 250V DC MCC Bus #2B CONTROL-Bus #2B, 125V DC #2A(B)-1, 24/48V DC #2(3)A	S
23008	1	I	D02-2301-0037-V15	HPCI/ Suppression Pool Supply Line Test Valve	M-51/ AY/ E-8	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Closed	No	N/A	N/A	S
23009	1	R	D02-2301-0039-V25	HPCI/ Suppression Pool Suction Line Check Valve	M-51/ AY/ E-8	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Operbl.	No	N/A	N/A	S
23010	1	I	D02-2399-0015-V15	HPCI/ Suppression Pool Suction Line Drain Valve	M-51/ AY/ E-7	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Closed	No	N/A	N/A	S
23011	1	8A	D02-2301-0035-V20	HPCI/ Suppression Pool Suction Line Valve	M-51/ AY/ E-1	Reactor	476' 6"	HP RM2 N/44	SR	1	Closed	Operbl.	Yes	12E-2530/ AA	MOTIVE-250V DC MCC Bus #2B CONTROL-Bus #2B, 125V DC #2A(B)-1, 24/48V DC #2(3)A	S
23012	1	18	D02-2340-0007--PI	HPCI/ HPCI Pump Suction Line Pressure Indicator	M-51/ AY/ A-2	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
23013	1	18	D02-2381-----PI	HPCI/ HPCI Pump Suction Line Pressure Indicator	M-51/ AY/ A-2	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
23014	1	18	D02-2382-----PT	HPCI/ HPCI Pump Suction Line Pressure Transmitter	M-51/ AY/ A-2	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
23015	1	I	D02-2301-0023-V26	HPCI/ HPCI Pump Suction Relief Valve	M-51/ AY/ A-3	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23016	1	18	D02-2360-----PS	HPCI/ HPCI Pump Suction Line Pressure Switch	M-51/ AY/ A-4	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
23017	1	5	D02-2302-----P30	HPCI/ HPCI Pump	M-51/ AY/ A-5	Reactor	476' 6"	HP RM2 N/45	S		Off	On	No	N/A	N/A	S
23018	1	I	D02-2301-0083-V15	HPCI/ HPCI Booster Pump Vent Valve	M-51/ AY/ A-4	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23019	1	I	D02-2301-0084-V15	HPCI/ HPCI Main Pump Vent Valve	M-51/ AY/ A-5	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23020	1	I	D02-2301-0099-V15	HPCI/ HPCI Booster Pump Vent Valve	M-51/ AY/ A-4	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23021	1	I	D02-2301-0100-V15	HPCI/ HPCI Booster Pump Vent Valve	M-51/ AY/ A-4	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23022	1	I	D02-2301-0101-V15	HPCI/ HPCI Main Pump Vent Valve	M-51/ AY/ A-5	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23023	1	I	D02-2301-0103-V15	HPCI/ HPCI Main Pump Drain Valve	M-51/ AY/ A-4	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23024	1	5	D02-2301-----T20	HPCI/ HPCI Turbine	M-51/ AY/ A-6	Reactor	476' 6"	HP RM2 N/45	S	5	Off	On	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23025	1	6	D02-2301-AOP--P30	HPCI/ Turbine Auxiliary Oil Pump (ROB-HPCI Turbine)	N/A	Reactor	476' 6"	HP RM2 N/44	BR	Off	On	Yes	12E-2527/ BA	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
23026	1	6	D02-2301-E80P-P30	HPCI/ Turbine Emergency Bearing Oil Pump (ROB-Turbine)	N/A	Reactor	476' 6"	HP RM2 N/44	BR	Off	On	Yes	12E-2532/ AB	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
23027	1	21	N/A	HPCI/ Turbine Oil Tank Cooling Heat Exch. (ROB-Turbine)	N/A	Reactor	476' 6"	HP RM2 N/44	B	N/A	N/A	No	N/A	N/A	S
23028	1	5	N/A	HPCI/ Main Oil Pump (ROB-HPCI Pump)	N/A	Reactor	476' 6"	HP RM2 N/44	B	Off	On	No	N/A	N/A	S
23029	1	18	D02-2380-----PSH	HPCI/ HPCI Turbine Pressure Switch	M-51/ AY/ A-6	Reactor	476' 6"	HP RM2 N/44	N/A	N/A	N/A	No	N/A	N/A	S
23030	1	18	D02-2387-----TI	HPCI/ Pump Discharge Line Local Temperature Indicator	M-51/ AY/ B-5	Reactor	476' 6"	HP RM2 N/44	N/A	N/A	N/A	No	N/A	N/A	S
23031	1	I	D02-2301-0096-V15	HPCI/ HPCI Pump Discharge Line Vent Valve	M-51/ AY/ C-5	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Closed	No	N/A	N/A	S
23032	1	18	D02-2357-----PI	HPCI/ HPCI Pump Discharge Line Local Pressure Indicator	M-51/ AY/ D-5	Reactor	476' 6"	SW C.RM N/43	N/A	N/A	N/A	No	N/A	N/A	S
23033	1	18	D02-2359-----PT	HPCI/ Pump Discharge Pressure Transmitter (ROB-2202-29)	M-51/ AY/ D-5	Reactor	476' 6"	SW C.RM N/43	B	N/A	N/A	No	N/A	N/A	S
23034	1	18	D02-2340-0002--PI	HPCI/ Pump Discharge Pressure Indicator (ROB-902-3)	M-51/ AY/ D-5	Turbine	534' 0"	C.RM PNL 902-3	BR	Operbl.	Operbl.	Yes	12E-2499/ W	MOTIVE-N/A CONTROL-120V AC Essential Bus 902-49	S
23035	1	18	D02-2356-----FE	HPCI/ HPCI Pump Discharge Line Local Flow Element	M-51/ AY/ D-5	Reactor	476' 6"	SW C.RM N/43	N/A	N/A	N/A	No	N/A	N/A	S
23036	1	18	D02-2358-----FT	HPCI/ HPCI Pump Discharge Line Flow Transmitter	M-51/ AY/ D-5	Reactor	476' 6"	SW C.RM N/43	N/A	N/A	N/A	No	N/A	N/A	S
23037	1	18	D02-2354-----FS	HPCI/ HPCI Pump Discharge Line Flow Switch	M-51/ AY/ D-5	Reactor	476' 6"	SW C.RM N/43	N/A	N/A	N/A	No	N/A	N/A	S
23038	1	18	D02-2340-0001-FIC	HPCI/ HPCI Pump Discharge Line Flow Controller	M-51/ AY/ D-5	Reactor	476' 6"	SW C.RM N/43	N/A	N/A	N/A	No	N/A	N/A	S
23039	1	8A	D02-2301-0009-V20	HPCI/ HPCI Pump Injection Line Valve	M-51/ AY/ E-5	Reactor	476' 6"	HP RM2 N/44	R	Open	Open	No	12E-2529-3/ AK	MOTIVE/CONTROL-N/A	S
23040	1	I	D02-2301-0092-V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-51/ AY/ E-5	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Closed	No	N/A	N/A	S
23041	1	I	D02-2304A-0500V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-51/ AY/ E-5	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Closed	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23042	1	I	D02-2354-0502-V15	HPCI/ ECCS Fill Line Isolation Valve	M-51/ AY/ E-6	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Closed	No	N/A	N/A	S
23043	1	I	D02-2399-0053-V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-51/ AY/ E-6	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Closed	No	N/A	N/A	S
23044	1	18	D02-2341-0003--TE	HPCI/ Pump Injection Line Local Temperature Element	M-51/ AY/ E-5	Reactor	476' 6"	HP RM2 N/44	N/A		N/A	N/A	No	N/A	N/A	S
23045	1	I	D02-2301-0087-V15	HPCI/ HPCI Pump Injection Line Vent Valve	M-51/ AY/ E-6	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Closed	No	N/A	N/A	S
23046	1	8A	D02-2301-0008-V20	HPCI/ HPCI Pump Injection Line Valve	M-51/ AY/ E-6	Turbine	517' 6"	X AREA G-H/41	SR		Closed	Open	Yes	12E-2529-1/ AH	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
23047	1	I	D02-2301-0018-V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-51/ AY/ E-6	Turbine	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23048	1	R	D02-2301-0007-V25	HPCI/ HPCI Pump Injection Line Check Valve	M-51/ AY/ E-6	Turbine	517' 6"	X AREA G-H/41	N/A		Closed	Operbl.	No	N/A	N/A	S
23049	1	I	D02-3299-0051-V15	FEEDWATER/ Reactor Feedwater Injection Line Drain Valve	M-14/ KV/ F-2	Turbine	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23050	1	R	D02-0220-0059-V25	FEEDWATER/ Reactor Feedwater Injection Line Check Valve	M-14/ KV/ F-2	Turbine	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23051	1	I	D02-0220-0086-V15	FEEDWATER/ HPCI Injection to Reactor Line Drain Valve	M-14/ KV/ F-3	Turbine	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23052	1	R	D02-0220-0062BV25	FEEDWATER/ HPCI Injection to Reactor Line Check Valve	M-14/ KV/ F-3	Reactor	517' 6"	X AREA G-H/41	N/A		Closed	Operbl.	No	N/A	N/A	S
23053	1	I	D02-3299-0050-V15	FEEDWATER/ HPCI Injection to Reactor Line Drain Valve	M-14/ KV/ F-3	Reactor	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23054	1	I	D02-0220-0103BV15	FEEDWATER/ HPCI Injection to Reactor Line Test Valve	M-14/ KV/ F-3	Reactor	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23055	1	R	D02-0220-0058BV25	FEEDWATER/ HPCI Injection to Reactor Line Check Valve	M-14/ KV/ F-4	Reactor	517' 6"	X AREA G-H/41	N/A		Closed	Operbl.	No	N/A	N/A	S
23056	1	I	D02-3204-0500BV15	FEEDWATER/ HPCI Injection to Reactor Line Drain Valve	M-14/ KV/ F-4	Reactor	517' 6"	X AREA G-H/41	N/A		Closed	Closed	No	N/A	N/A	S
23057	1	I	D02-0220-0057BV15	FEEDWATER/ HPCI Injection to Reactor Line Valve	M-14/ KV/ F-4	Reactor	517' 6"	X AREA G-H/41	N/A		Open	Open	No	N/A	N/A	S
23058	1	I	D02-2301-0058-M01	HPCI/ HPCI Pump Test Line Restricting Orifice	M-51/ AY/ C-6	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
23059	1	I	D02-2301-0089-V15	HPCI/ HPCI Pump Test Line Drain Valve	M-51/ AY/ C-6	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	Normal Desired REQD? DWG. NO./REV. & SUPPORTING COMPONENTS ISSUE	
23060	1	8A	D02-2301-0014-V20	HPCI/ HPCI Pump Test Line Valve	M-51/ AY/ C-6	Reactor	476' 6"	HP RM2 N/44	SR	Closed Operbl. Yes 12E-2530/ AA MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S
23061	1	R	D02-2301-0040-V25	HPCI/ HPCI Pump Test Line Check Valve	M-51/ AY/ C-6	Reactor	476' 6"	HP RM2 N/44	N/A	Closed Operbl. No N/A N/A	S
23062	1	8A	D02-2301-0010-V20	HPCI/ Condensate Storage Tank Return Line Valve	M-51/ AY/ E-5	Reactor	476' 6"	HP RM2 N/44	R	Closed Closed No 12E-2529-3/ AK MOTIVE/CONTROL-N/A	S
23063	1	I	D02-2399-0060-V15	HPCI/ Condenser Hotwell Pump Suction Line Valve	M-51/ AY/ E-2	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open No N/A N/A	S
23064	1	5	D02-2301-CONDPP	HPCI/ Condenser Hotwell Condensate Pump	M-51/ AY/ E-2	Reactor	476' 6"	HP RM2 N/45	SR	Off Operbl. Yes 12E-2532/ AB MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
23065	1	I	D02-2399-0080-V15	HPCI/ Condenser Hotwell Pump Discharge Drain Valve	M-51/ AY/ D-3	Reactor	476' 6"	HP RM2 N/45	N/A	Closed Closed No N/A N/A	S
23066	1	I	D02-2399-0079-V16	HPCI/ Condenser Hotwell Pump Discharge Pres. Valve	M-51/ AY/ D-3	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open No N/A N/A	S
23067	1	R	D02-2301-0076-V25	HPCI/ Condenser Hotwell Pump Discharge Line Check Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/45	N/A	Closed Operbl. No N/A N/A	S
23068	1	I	D02-2301-0082-V15	HPCI/ Condenser Hotwell Pump Discharge Line Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open No N/A N/A	S
23069	1	I	D02-2301-0102-V15	HPCI/ HPCI Pump Discharge Line Drain Valve	M-51/ AY/ A-5	Reactor	476' 6"	HP RM2 N/45	N/A	Closed Closed No N/A N/A	S
23070	1	R	D02-2301-0050AV25	HPCI/ HPCI Pump Discharge Line Check Valve	M-51/ AY/ C-5	Reactor	476' 6"	HP RM2 N/45	N/A	Closed Operbl. No N/A N/A	S
23071	1	R	D02-2301-0046-V10	HPCI/ Gland Seal Condenser Suction Line Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/45	N/A	Open Operbl. No N/A N/A	S
23072	1	I	D02-2399-0094-V15	HPCI/ Gland Seal Condenser Test Line Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open No N/A N/A	S
23073	1	R	D02-2301-0053-V26	HPCI/ Gland Seal Condenser Inlet Relief Valve	M-51/ AY/ C-3	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open No N/A N/A	S
23074	1	21	D02-2320-GSC--H15	HPCI/ Gland Seal Condenser	M-51/ AY/ C-2	Reactor	476' 6"	HP RM2 N/45-46	S	N/A N/A No N/A N/A	S
23075	1	10	D02-LOC	HPCI/ Lube Oil Cooler	M-51/ AY/ C-2	Reactor	476' 6"	HP RM2 N/45	S	N/A N/A No N/A N/A	S
23076	1	I	D02-2314-0500-V15	HPCI/ Lube Oil Cooler Discharge Line Valve	M-51/ AY/ C-2	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open N/A N/A N/A	S
23077	1	R	D02-2301-0075-V25	HPCI/ Gland Seal Condenser Return Line Check Valve	M-51/ AY/ B-4	Reactor	476' 6"	HP RM2 N/45-46	N/A	Closed Operbl. N/A N/A N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23078	1	9	D02-2320-GSCE-F05	HPCI/ Gland Seal Condenser Exhaust Fan	M-51/ AY/ B-2	Reactor	476' 6"	HP RM2 N/45-46	SR	Off	On	Yes	12E-2532/ AB	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
23079	1	I	D02-2320-0500-V15	HPCI/ Gland Seal Exhauster Discharge Line Valve	M-51/ AY/ B-3	Reactor	476' 6"	HP RM2 N/45-46	N/A	Open	Open	No	N/A	N/A	S
23080	1	8A	D02-2301-0049-V20	HPCI/ HPCI Pump Condensate Return Line Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/44-45	R	Closed	Closed	No	12E-2530/ AA	MOTIVE/CONTROL-N/A	S
23081	1	8A	D02-2301-0048-V20	HPCI/ HPCI Pump Condensate Return Line Valve	M-51/ AY/ B-4	Reactor	476' 6"	HP RM2 N/44-45	R	Open	Open	No	12E-2530/ AA	MOTIVE/CONTROL-N/A	S
23082	1	I	D02-2301-0085-V15	HPCI/ HPCI Pump Condensate Return Line Drain Valve	M-51/ AY/ A-5	Reactor	476' 6"	HP RM2 N/44-45	N/A	Closed	Closed	No	N/A	N/A	S
23083	1	I	D02-2301-0080-V15	HPCI/ Turbine Cooling Pump Suction Line Valve	M-51/ AY/ D-4	Reactor	476' 6"	HP RM2 N/44-45	N/A	Open	Open	No	N/A	N/A	S
23084	1	5	D02-2301-0057-P30	HPCI/ HPCI Turbine Cooling Water Pump	M-51/ AY/ D-4	Reactor	476' 6"	HP RM2 N/44	SR	Off	On	Yes	12E-2531/ AG	MOTIVE/CONTROL-MCC 29-4	S
23085	1	I	D02-2399-0095-V15	HPCI/ Turbine Cooling Pump Drain Line Valve	M-51/ AY/ D-4	Reactor	476' 6"	HP RM2 N/44	N/A	Open	Open	No	N/A	N/A	S
23086	1	R	D02-2301-0051-V25	HPCI/ Turbine Cooling Pump Discharge Line Check Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Operbl.	No	N/A	N/A	S
23087	1	I	D02-2301-0081-V15	HPCI/ Turbine Cooling Pump Discharge Line Valve	M-51/ AY/ C-4	Reactor	476' 6"	HP RM2 N/44	N/A	Open	Open	No	N/A	N/A	S
23088	1	8A	D02-2301-0004-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ C-9	Reactor	576' 7"	DRYWELL	R	Open	Open	No	12E-2529-2/ AJ	MOTIVE/CONTROL-N/A	S
23089	1	I	D02-2301-0016-V15	HPCI/ Turbine Steam Line Test Valve	M-51/ AY/ C-10	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Closed	No	N/A	N/A	S
23090	1	8A	D02-2301-0005-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ B-10	Reactor	476' 6"	TORUS BAY 2	R	Open	Open	No	12E-2529-2/ AJ	MOTIVE/CONTROL-N/A	S
23091	1	I	D02-2399-0019-V15	HPCI/ Turbine Steam Line Test Valve	M-51/ AY/ B-10	Reactor	476' 6"	TORUS BAY 1	N/A	Closed	Closed	No	N/A	N/A	S
23092	1	18	D02-2363-----PI	HPCI/ Turbine Inlet Line Pressure Indicator	M-51/ AY/ A-10	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23093	1	18	D02-2364-----PT	HPCI/ Turbine Inlet Line Pressure Transmitter	M-51/ AY/ A-10	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23094	1	18	D02-2340-0004--PI	HPCI/ Turbine Inlet Line Pressure Indicator	M-51/ AY/ A-10	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23095	1	8A	D02-2301-0003-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	SR	Closed	Open	Yes	12E-2529-2/ AJ	MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23096	1	I	D02-2305-0500-V15	HPCI/ Turbine Steam Line Test Valve	M-51/ AY/ A-8	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Closed	No	N/A	N/A	S
23097	1	I	D02-2366-R----V15	HPCI/ Turbine Steam Instrument Line Root Valve	M-51/ AY/ B-6	Reactor	476' 6"	HP RM2 N/44	N/A	Open	Open	No	N/A	N/A	S
23098	1	18	D02-2367-----PI	HPCI/ Turbine Exhaust Line Local Pressure Indicator	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A	N/A	N/A	No	N/A	N/A	S
23099	1	18	D02-2366-----PT	HPCI/ Turbine Exhaust Line Pressure Transmitter	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A	N/A	N/A	No	N/A	N/A	S
23100	1	18	D02-2340-0005--PI	HPCI/ Turbine Exhaust Line Pressure Indicator	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A	N/A	N/A	No	N/A	N/A	S
23101	1	18	D02-2368-A----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A	N/A	N/A	No	N/A	N/A	S
23102	1	18	D02-2368-B----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A	N/A	N/A	No	N/A	N/A	S
23103	1	R	D02-2301-0045-V25	HPCI/ Turbine Exhaust Line Check Valve	M-51/ AY/ B-8	Reactor	476' 6"	TORUS BAY 13	N/A	Closed	Operbl.	No	N/A	N/A	S
23104	1	I	D02-2301-0041AV15	HPCI/ Turbine Exhaust Line Drain Valve	M-51/ AY/ B-8	Reactor	476' 6"	TORUS BAY 13	N/A	Closed	Closed	No	N/A	N/A	S
23105	1	I	D02-2301-0074-V18	HPCI/ Turbine Exhaust Line Valve	M-51/ AY/ C-8	Reactor	476' 6"	TORUS BAY 13	N/A	Open	Open	No	N/A	N/A	S
23106	1	R	D02-2399-0076AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-51/ AY/ D-8	Reactor	476' 6"	TORUS BAY 13	N/A	Closed	Operbl.	No	N/A	N/A	S
23107	1	R	D02-2399-0076BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-51/ AY/ D-8	Reactor	476' 6"	TORUS BAY 13	N/A	Closed	Operbl.	No	N/A	N/A	S
23108	1	R	D02-2399-0077AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-51/ AY/ D-8	Reactor	476' 6"	TORUS BAY 13	N/A	Closed	Operbl.	No	N/A	N/A	S
23109	1	R	D02-2399-0077BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-51/ AY/ D-7	Reactor	476' 6"	TORUS BAY 13	N/A	Closed	Operbl.	No	N/A	N/A	S
23110	1	I	D02-2399-0107-V15	HPCI/ Turbine Steam Drain Line Drain Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A	Closed	Closed	No	N/A	N/A	S
23111	1	I	D02-2399-0002-V15	HPCI/ Turbine Steam Drain Line Root Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23112	1	18	D02-2365-----LSH	HPCI/ Turbine Steam Drain Line Level Switch	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23113	1	I	D02-2301-0055-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23114	1	I	D02-2301-0001-M01	HPCI/ Turbine Steam Drain Line Trap	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23115	1	I	D02-2301-0054-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23116	1	R	D02-2301-0029-V05	HPCI/ Turbine Steam Drain Line Valve	M-51/ AY/ B-10	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Closed	No	N/A	N/A	S
23117	1	R	D02-2301-0028-V05	HPCI/ Turbine Steam Drain Line Valve	M-51/ AY/ B-8	Reactor	476' 6"	HP RM2 N/45	N/A	Closed	Open	No	N/A	N/A	S
23118	1	I	D02-2301-00638M01	HPCI/ Turbine Steam Drain Line Restricting Orifice	M-51/ AY/ B-8	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23119	1	I	D02-2399-0072-V15	HPCI/ Turbine Exhaust Drain Line Root Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23120	1	18	D02-2369-----LSH	HPCI/ Turbine Exhaust Drain Line Level Switch	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23121	1	I	D02-2301-0050-V15	HPCI/ Turbine Exhaust Drain Line Bypass Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A	Closed	Closed	No	N/A	N/A	S
23122	1	I	D02-2301-0033-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23123	1	I	D02-2301-0002-M01	HPCI/ Turbine Exhaust Drain Line Trap	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A	N/A	N/A	No	N/A	N/A	S
23124	1	I	D02-2301-0047-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23125	1	R	D02-2301-0034-V25	HPCI/ Turbine Exhaust Drain Line Check Valve	M-51/ AY/ D-7	Reactor	476' 6"	HP RM2 N/45	N/A	Closed	Operbl.	No	N/A	N/A	S
23126	1	I	D02-2301-00418V15	HPCI/ Turbine Exhaust Drain Line Drain Valve	M-51/ AY/ D-7	Reactor	476' 6"	HP RM2 N/45	N/A	Closed	Closed	No	N/A	N/A	S
23127	1	I	D02-2301-0071-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-51/ AY/ D-7	Reactor	476' 6"	HP RM2 N/45	N/A	Open	Open	No	N/A	N/A	S
23128	1	10	D02-5747-----H15	HPCI/ HPCI Emergency Air Cooler	M-22/ BY/ C-6	Reactor	476' 6"	HP RM2 N/45	SR	Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 29-4 S COOLING-Service Water System	S
23129	1	I	D00-3340-0500-V15	CONDENSATE/ Condensate Storage Tank Test Line Valve	M-35-1/ CH/ F-4	N/A	Grade	K/35	N/A	Open	Open	No	N/A	N/A	S
23130	1	18	D00-2350-A-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH 3B-1	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1,	S
23131	1	18	D00-2350-C-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH 3B-1	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1,	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23132	1	I	D00-3389-0500-V15	CONDENSATE/ Condensate Storage Tank Test Line Valve	M-35-1/ CH/ F-3	N/A	Grade	K/35	N/A	Open	Open	No	N/A	N/A	S
23133	1	18	D00-2350-B-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1, 3B-1	S
23134	1	18	D00-2350-D-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1, 3B-1	S
23135	1	I	D02-1699-0016-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-25/ CC/ E-2	Reactor	476' 6"	SW C.RM M/43	N/A	Open	Open	No	N/A	N/A	S
23136	1	I	D02-1699-0062-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-51/ AY/ E-7	Reactor	476' 6"	SW C.RM M/43	N/A	Open	Open	No	N/A	N/A	S
23137	1	I	D02-1699-0063-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-51/ AY/ E-7	Reactor	476' 6"	SW C.RM M/43	N/A	Open	Open	No	N/A	N/A	S
23138	1	18	D02-2351-A-----LS	HPCI/ Suppression Pool Water Level Switch	M-51/ AY/ D-7	Reactor	476' 6"	SW C.RM M/43	SR 5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
23139	1	18	D02-2351-B-----LS	HPCI/ Suppression Pool Water Level Switch	M-51/ AY/ D-7	Reactor	476' 6"	SW C.RM M/43	SR 5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
23140	1	I	D02-1699-0061-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-51/ AY/ E-7	Reactor	476' 6"	SW C.RM M/43	N/A	Open	Open	No	N/A	N/A	S
23141	1	I	D02-1699-0064-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-51/ AY/ E-7	Reactor	476' 6"	SW C.RM M/43	N/A	Open	Open	No	N/A	N/A	S
23142	1	I	D02-1699-0009-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-25/ CC/ F-2	Reactor	476' 6"	SW C.RM M/43	N/A	Open	Open	No	N/A	N/A	S
23143	1	I	D02-1699-0065-V15	PRESSURE SUPPRESSION/ Torus Level Switch Drain Valve	M-51/ AY/ E-7	Reactor	476' 6"	SW C.RM M/43	N/A	Closed	Closed	No	N/A	N/A	S
23144	1	I	D02-1699-0075-V15	PRESSURE SUPPRESSION/ Torus Level Switch Drain Valve	M-25/ CC/ F-2	Reactor	476' 6"	SW C.RM M/43	N/A	Closed	Closed	No	N/A	N/A	S
23145	1	I	D02-1699-0066-V15	PRESSURE SUPPRESSION/ Torus Level Switch Drain Valve	M-51/ AY/ E-7	Reactor	476' 6"	SW C.RM M/43	N/A	Closed	Closed	No	N/A	N/A	S
23146	1	18	D02-2370-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR 5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	S
23147	1	18	D02-2370-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR 5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	S
23148	1	18	D02-2370-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR 5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	S
23149	1	18	D02-2370-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR 5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. Normal	ST. --> Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23150	1	18	D02-2371-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23151	1	18	D02-2371-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23152	1	18	D02-2371-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23153	1	18	D02-2371-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23154	1	18	D02-2372-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23155	1	18	D02-2372-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23156	1	18	D02-2372-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23157	1	18	D02-2372-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23158	1	18	D02-2373-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23159	1	18	D02-2373-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23160	1	18	D02-2373-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23161	1	18	D02-2373-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
23162	1	I	D02-2399-0069-V15	HPCI/ Gland Seal Condenser Instrument Line Valve	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
23163	1	I	D02-2399-0068-V15	HPCI/ Gland Seal Condenser Instrument Line Drain Valve	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23164	1	I	D02-2399-0070-V15	HPCI/ Gland Seal Condenser Instrument Line Drain Valve	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
23165	1	18	D02-LCS1-----LS	HPCI/ Gland Seal Condenser Drain Pump Low Level Switch	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	SR	5	Closed	Operbl.	Yes	12E-2532/ AC	MOTIVE-N/A CONTROL-250V S DC MCC Bus #2A	
23166	1	18	D02-LCS2-----LS	HPCI/ Gland Seal Condenser Drain Pump High Level Switch	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2528/ AT	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	
23167	2	I	D02-1501-0070AV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 15	N/A		Closed	Closed	No	N/A	N/A	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23168	2	I	D02-1599-0027AV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	SE C.RM M/39	N/A	Closed	Closed	No	N/A	N/A	S
23169	2	I	D02-1501-0033AV15	LPCI/ Suppression Pool Suction Line Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 15	N/A	Open	Open	No	N/A	N/A	S
23170	2	I	D02-1599-0073AV15	LPCI/ Suppression Pool Suction Line Vent Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Closed	No	N/A	N/A	S
23171	2	8A	D02-1501-0005BV20	LPCI/ Suppression Pool Suction Line "B" Valve	M-29-1/ BC/ E-5	Reactor	476' 6"	SE C.RM N/39	R	Open	Open	No	12E-2440-1/ AC	MOTIVE/CONTROL-N/A	S
23172	2	8A	D02-1501-0005AV20	LPCI/ Suppression Pool Suction Line "A" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SE C.RM N/39	R	Open	Open	No	12E-2440-1/ AC	MOTIVE/CONTROL-N/A	S
23173	2	I	D02-1501-0031BV15	LPCI/ Condensate Storage Tank Suction Line "B" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Closed	No	N/A	N/A	S
23174	2	I	D02-1501-0031AV15	LPCI/ Condensate Storage Tank Suction Line "A" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Closed	No	N/A	N/A	S
23175	2	18	D02-1501-0047B-PI	LPCI/ LPCI Pump Suction Line "B" Pressure Indicator	M-29-1/ BC/ D-6	Reactor	476' 6"	SE C.RM N/39	N/A	N/A	N/A	No	N/A	N/A	S
23176	2	18	D02-1501-0047A-PI	LPCI/ LPCI Pump Suction Line "A" Pressure Indicator	M-29-1/ BC/ E-6	Reactor	476' 6"	SE C.RM N/39	N/A	N/A	N/A	No	N/A	N/A	S
23177	2	I	D02-1501-0006BV15	LPCI/ Suppression Pool Suction Line "B" Drain Valve	M-29-1/ BC/ E-6	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Closed	No	N/A	N/A	S
23178	2	I	D02-1501-0006AV15	LPCI/ Suppression Pool Suction Line "A" Drain Valve	M-29-1/ BC/ F-6	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Closed	No	N/A	N/A	S
23179	2	7	D02-1599-0013BV26	LPCI/ Suppression Pool Suction Line "B" Relief Valve	M-29-1/ BC/ D-6	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Operbl.	No	N/A	N/A	S
23180	2	7	D02-1599-0013AV26	LPCI/ Suppression Pool Suction Line "A" Relief Valve	M-29-1/ BC/ E-6	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Operbl.	No	N/A	N/A	S
23181	2	6	D02-1502-B----P30	LPCI/ LPCI Injection Pump "B"	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	SR 1,2	Off	On	Yes	12E-2436-1/ AA	MOTIVE-4160V AC Switchgear 23-1 CONTROL-125V DC Bus #2A-1, RB Dist. Panel #2	S
23182	2	6	D02-1502-A----P30	LPCI/ LPCI Injection Pump "A"	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	SR 1,2	Off	On	Yes	12E-2436-1/ AA	MOTIVE-4160V AC Switchgear 23-1 CONTROL-125V DC Bus #2A-1, RB Dist. Panel #2	S
23183	2	I	D02-1501-0074BV15	LPCI/ LPCI Pump Line "B" Vent Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Closed	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23184	2	I	D02-1501-0074AV15	LPCI/ LPCI Pump Line "A" Vent Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
23185	2	I	D02-1501-00148V15	LPCI/ LPCI Pump Line "B" Drain Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
23186	2	I	D02-1501-0014AV15	LPCI/ LPCI Pump Line "A" Drain Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
23187	2	18	D02-1501-00488-PI	LPCI/ LPCI Pump Discharge Line "B" Pressure Indicator	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		N/A	N/A	No	N/A	N/A	S
23188	2	18	D02-1501-0048A-PI	LPCI/ LPCI Pump Discharge Line "A" Pressure Indicator	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		N/A	N/A	No	N/A	N/A	S
23189	2	18	D02-1554-B-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
23190	2	18	D02-1554-A-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
23191	2	18	D02-1554-F-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
23192	2	18	D02-1554-E-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
23193	2	R	D02-1501-00638V25	LPCI/ LPCI Pump Discharge Line "B" Check Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
23194	2	R	D02-1501-0063AV25	LPCI/ LPCI Pump Discharge Line "A" Check Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
23195	2	I	D02-1501-00098V15	LPCI/ LPCI Pump Discharge Line "B" Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Open	Open	No	N/A	N/A	S
23196	2	I	D02-1501-0009AV15	LPCI/ LPCI Pump Discharge Line "A" Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Open	Open	No	N/A	N/A	S
23197	2	I	D02-1501-0155-V15	LPCI/ LPCI Pump Discharge Line "A" Drain Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
23198	2	18	D02-1546-A-----TE	LPCI/ LPCI Heat Exchanger Line Temperature Element	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23199	2	18	D02-1546-A1-----TE	LPCI/ LPCI Heat Exchanger Line Temperature Element	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23200	2	18	D02-1540-0005--TR	LPCI/ LPCI Heat Exchanger Temperature Recorder	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23201	2	R	D02-1501-0010AV15	LPCI/ LPCI Heat Exchanger Inlet Line Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23202	2	I	D02-1599-0029-V15	LPCI/ LPCI Heat Exchanger Bypass Line Drain Valve	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
23203	2	8A	D02-1501-0011AV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	R		Open	Open	No	12E-2440-2/ AC	MOTIVE/CONTROL-N/A	S
23204	2	18	D02-1547-A-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-29-1/ BC/ D-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23205	2	18	D02-1547-A1-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-29-1/ BC/ D-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23206	2	R	D02-1501-0012AV15	LPCI/ LPCI Heat Exchanger Outlet Line Valve	M-29-1/ BC/ D-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Closed	No	N/A	N/A	S
23207	2	8A	D02-1501-0032AV20	LPCI/ LPCI Header Crosstie Line Valve	M-29-1/ BC/ D-8	Reactor	476' 6"	SE C.RM N/39	SR 1		Open	Closed	Yes	12E-2440-3/ AC	MOTIVE/CONTROL-MCC 28-1	S
23208	2	18	D02-1548-A-----FE	LPCI/ LPCI Header Flow Element	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23209	2	18	D02-1549-A-----FT	LPCI/ LPCI Header Flow Transmitter	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23210	2	18	D02-1540-0007--FR	LPCI/ LPCI Header Flow Recorder	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23211	2	18	D02-1501-0058A-FT	LPCI/ LPCI Header Flow Transmitter	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23212	2	18	D02-1501-0092AF15	LPCI/ LPCI Header Flow Indicating Switch	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23213	2	I	D02-1501-0017AV26	LPCI/ LPCI Header Line Relief Valve	M-29-1/ BC/ C-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
23214	2	18	D02-1501-0051A-PS	LPCI/ LPCI Header Pressure Switch High	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23215	2	18	D02-1557-A----PSL	LPCI/ LPCI Header Pressure Switch Low	M-29-1/ BC/ C-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
23216	2	I	D02-1501-0045AV15	LPCI/ Drywell Spray Line Drain Valve	M-29-1/ BC/ A-7	Reactor	517' 6"	L-M/40-41	N/A		Closed	Closed	No	N/A	N/A	S
23217	2	8A	D02-1501-0027AV20	LPCI/ Drywell Spray Line Valve	M-29-1/ BC/ A-7	Reactor	517' 6"	L/40	R		Closed	Closed	No	12E-2440-3/ AC	MOTIVE/CONTROL-N/A	S
23218	2	8A	D02-1501-0018AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 1	R		Closed	Closed	No	12E-2441-1/ Y	MOTIVE/CONTROL-N/A	S
23219	2	18	D02-1550-A-----FE	LPCI/ LPCI Injection Line Flow Element	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
23220	2	18	D02-1501-0053AFSL	LPCI/ LPCI Injection Line Flow Switch Low	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
23221	2	18	D02-1562-C-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A		N/A	N/A	No	N/A	N/A	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23222	2	18	D02-1562-A-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A	N/A	N/A	No	N/A	N/A	S
23223	2	18	D02-1559-A-----FY	LPCI/ LPCI Injection Line Flow Converter	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A	N/A	N/A	No	N/A	N/A	S
23224	2	18	D02-1559-C-----FY	LPCI/ LPCI Injection Line Flow Converter	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A	N/A	N/A	No	N/A	N/A	S
23225	2	18	D02-1561-A-----FI	LPCI/ LPCI Injection Line Flow Indicator	M-29-1/ BC/ B-7	Reactor	476' 6"	SE C.RM K/38-39	N/A	N/A	N/A	No	N/A	N/A	S
23226	2	8A	D02-1501-0021AV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-8	Reactor	517' 6"	K/38-39	R	Open	Open	No	12E-2441-3/ Z	MOTIVE/CONTROL-N/A	S
23227	2	I	D02-1501-0079AV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	K/38-39	N/A	Closed	Closed	No	N/A	N/A	S
23228	2	8A	D02-1501-0038AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 2	R	Closed	Closed	No	12E-2441-1/ Y	MOTIVE/CONTROL-N/A	S
23229	2	8A	D02-1501-0022AV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-7	Reactor	476' 6"	TORUS BAY 2	SR 1	Closed	Open	Yes	12E-2441-4/ AA	MOTIVE-MCC 28-7 CONTROL-MCC 28-7, 125V DC TB Main Bus #2A-1	S
23230	2	I	D02-1599-0002AV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-7	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Closed	No	N/A	N/A	S
23231	2	8A	D02-1001-0005AV20	SHUTDOWN COOLING/ Injection Line Valve	M-32/ AM/ E-2	Reactor	476' 6"	TORUS BAY 2	R	Closed	Closed	No	12E-2508E/ N	MOTIVE/CONTROL-N/A	S
23232	2	I	D02-1001-0014AV15	SHUTDOWN COOLING/ Injection Line Drain Valve	M-32/ AM/ E-2	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Closed	No	N/A	N/A	S
23233	2	I	D02-1501-0023AV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-6	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Closed	No	N/A	N/A	S
23234	2	R	D02-1501-0025AV25	LPCI/ LPCI Injection Line Check Valve	M-29-1/ BC/ B-5	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
23235	2	I	D02-1501-0026AV15	LPCI/ LPCI Injection Line Inside Containment Valve	M-29-1/ BC/ B-5	Reactor	515' 5"	DRYWELL	N/A	Open	Open	No	N/A	N/A	S
23236	2	8A	D02-1501-0013AV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-29-1/ BC/ D-7	Reactor	476' 6"	TORUS BAY 1	SR 1	Open	Operbl.	Yes	12E-2440-2/ AC	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC Bus #2A-1, 24/48V DC Dist. Panel #2A	S
23237	2	I	D02-1501-0064BV15	LPCI/ LPCI Minimum Flow Line "B" Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A	Open	Open	No	N/A	N/A	S
23238	2	I	D02-1501-0064AV15	LPCI/ LPCI Minimum Flow Line "A" Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A	Open	Open	No	N/A	N/A	S
23239	2	R	D02-1501-0065BV15	LPCI/ LPCI Minimum Flow Line "B" Check Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A	Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23240	2	R	D02-1501-0065AV15	LPCI/ LPCI Minimum Flow Line "A" Check Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
23241	2	8A	D02-0202-0005AV20	REACTOR RECIRCULATION/ Recirc Pump A Discharge Valve	M-26-2/ HT/ D-5	Reactor	515' 5"	DRYWELL	SR		Open	Closed	Yes	12E-2420A/ W	MOTIVE/CONTROL-MCC 28-7	S
23242	2	8A	D02-0202-0006AV20	REACTOR RECIRCULATION/ Recirc Pump Crosstie Valve	M-26-2/ HT/ B-5	Reactor	515' 5"	DRYWELL	R		Closed	Closed	No	12E-2420A/ W	MOTIVE/CONTROL-N/A	S
23243	2	8A	D02-0202-0007AV20	REACTOR RECIRCULATION/ Recirc Pump A Bypass Valve	M-26-2/ HT/ D-5	Reactor	502' 4"	DRYWELL	R		Closed	Closed	No	12E-2420A/ W	MOTIVE/CONTROL-N/A	S
23244	2	8A	D02-0202-0009AV20	REACTOR RECIRCULATION/ Recirc Crosstie Bypass Valve	M-26-2/ HT/ B-5	Reactor	515' 5"	DRYWELL	SR		Open	Closed	Yes	12E-2420A/ W	MOTIVE/CONTROL-MCC 28-7	S
23245	2	10	D02-5746-A----H15	LPCI/ LPCI Emergency Room Air Cooler	M-22/ BY/ C-7	Reactor	476' 6"	SE C.RM M/38	SR	1	Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 28-1 COOLING-Service Water System	S
23246	2	7	D02-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23247	2	7	D02-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23248	2	7	D02-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23249	2	7	D02-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23250	2	7	D02-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23251	2	7	D02-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23252	2	7	D02-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23253	2	7	D02-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23254	2	88	D02-0203-0003AV26	ADS/ Target Rock Valve	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
23255	2	88	D02-0203-0003BV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
23256	2	88	D02-0203-0003EV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-6	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23257	2	88	D02-0203-0003CV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ D-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
23258	2	88	D02-0203-0003DV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ B-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
23259	2	I	D02-4799-0427-V15	INSTRUMENT AIR/ Target Rock Accumulator Drain Valve	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23260	2	21	D02-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
23261	2	I	D02-4799-0281AV25	INSTRUMENT AIR/ Target Rock Accumulator Check Valve	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
23262	2	18	D02-0261-0037A-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23263	2	18	D02-0261-0037B-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23264	2	18	D02-0261-0037C-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23265	2	18	D02-0261-0014A-TE	ADS/ Target Rock Temperature Element	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23266	2	18	D02-0261-0014B-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23267	2	18	D02-0261-0014E-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ E-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23268	2	18	D02-0261-0014C-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ D-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23269	2	18	D02-0261-0014D-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ B-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23270	2	R	D02-0220-0105AV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23271	2	R	D02-0220-0105BV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23272	2	R	D02-0220-0105CV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23273	2	R	D02-0220-0105DV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23274	2	R	D02-0220-0105EV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23275	2	R	D02-0299-0068AV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23276	2	R	D02-0299-0068BV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23277	2	R	D02-0299-0068CV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23278	2	R	D02-0299-0068DV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
23279	2	R	D02-0299-0068EV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
23280	2	18	D02-0261-0001A-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23281	2	18	D02-0261-0001B-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23282	2	18	D02-0261-0001C-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23283	2	18	D02-0261-0001D-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
23284	2	I	D02-0220-0011AV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23285	2	I	D02-0220-0012AV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23286	2	I	D02-0220-0011BV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23287	2	I	D02-0220-0012BV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23288	2	I	D02-0220-0011CV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23289	2	I	D02-0220-0012CV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23290	2	I	D02-0220-0011DV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23291	2	I	D02-0220-0012DV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
23292	2	R	D02-0220-0017AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
23293	2	R	D02-0220-0018AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
23294	2	R	D02-0220-0017BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
23295	2	R	D02-0220-0018BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
23296	2	R	D02-0220-0017CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
23297	2	R	D02-0220-0018CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23298	2	R	D02-0220-0017DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
23299	2	R	D02-0220-0018DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A	Open	Operbl.	No	N/A	N/A	S
23300	2	7	D02-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
23301	2	88	D02-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
23302	2	88	D02-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
23303	2	7	D02-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
23304	2	88	D02-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
23305	2	88	D02-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
23306	2	7	D02-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
23307	2	88	D02-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
23308	2	88	D02-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
23309	2	7	D02-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
23310	2	88	D02-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
23311	2	88	D02-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
23312	2	21	D02-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
23313	2	21	D02-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
23314	2	21	D02-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
23315	2	21	D02-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
23316	2	I	D02-0220-0084AV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
23317	2	I	D02-0220-0084BV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
23318	2	I	D02-0220-0084CV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
23319	2	I	D02-0220-0084DV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
23320	2	8A	D02-0220-0001-V20	MAIN STEAM/ Isolation Valve Line Drain Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	R	Closed	Closed	No	N/A	MOTIVE/CONTROL-N/A	S
23321	3	I	D02-0263-0013BM03	NUCLEAR BOILER/ Instrument Line Condensing Chamber	M-26-1/ AU/ E-4	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
23322	3	I	D02-0263-0218BV15	NUCLEAR BOILER/ Instrument Line Valve	M-26-1/ AU/ C-4	Reactor	545' 6"	L-M/41-42	N/A	Open	Open	No	N/A	N/A	S
23323	3	R	D02-0263-0219BV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-26-1/ AU/ C-4	Reactor	545' 6"	L-M/41-42	N/A	Open	Operbl.	No	N/A	N/A	S
23324	3	18	D02-0263-0152B-PT	NUCLEAR BOILER/ Reactor Pressure Transmitt. (ROB-2202-6)	M-26-1/ AU/ D-3	Reactor	545' 6"	L-M/41-42	B	N/A	N/A	No	N/A	N/A	S
23325	3	18	D02-0640-0027--UR	REACTOR LEVEL CONTROL/ Pressure Recorder (ROB-902-5)	M-26-1/ AU/ C-1	Turbine	534' 0"	C. RM PNL 902-5 B		On	On	Yes	12E-2418-1/ AM	MOTIVE-N/A CONTROL-120V S AC Essential Bus 902-49	S
23326	3	I	D02-0263-0241BV15	NUCLEAR BOILER/ Instrument Line Valve	M-26-1/ AU/ C-4	Reactor	517' 6"	K/43	N/A	Open	Open	No	N/A	N/A	S
23327	3	R	D02-0263-0242BV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-26-1/ AU/ C-4	Reactor	517' 6"	K/43	N/A	Open	Operbl.	No	N/A	N/A	S
23328	3	I	D02-0263-0221DV15	NUCLEAR BOILER/ Instrument Line Valve	M-26-1/ AU/ B-4	Reactor	517' 6"	K/43	N/A	Open	Open	No	N/A	N/A	S
23329	3	R	D02-0263-0220DV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-26-1/ AU/ B-4	Reactor	517' 6"	K/43	N/A	Open	Operbl.	No	N/A	N/A	S
23330	3	18	D02-0263-0073B-LT	NUCLEAR BOILER/ Reactor Level Transmitter (ROB-2202-8)	M-26-1/ AU/ B-2	Reactor	517' 6"	K/43	B	N/A	N/A	No	N/A	N/A	S
23331	3	18	D02-0263-0149BLIS	NUCLEAR BOILER/ Reactor Level Switch (ROB-2202-73B)	M-26-1/ AU/ B-2	Turbine	538' 0"	H/35	B	N/A	N/A	No	N/A	N/A	S
24001	1	8A	D02-2301-0004-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ C-9	Reactor	576' 7"	DRYWELL	R	Open	Open	No	12E-2529-2/ AJ	MOTIVE/CONTROL-N/A	S
24002	1	I	D02-2399-0016-V15	HPCI/ Turbine Steam Line Test Valve	M-51/ AY/ B-10	Reactor	476' 6"	HP RM2 N/44	N/A	Closed	Closed	No	N/A	N/A	S
24003	1	8A	D02-2301-0005-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ B-10	Reactor	476' 6"	TORUS BAY 2	R	Open	Open	No	12E-2529-2/ AJ	MOTIVE/CONTROL-N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24004	1	I	D02-2399-0019-V15	HPCI/ Turbine Steam Line Test Valve	M-51/ AY/ B-10	Reactor	476' 6"	TORUS BAY 1	N/A		Closed	Closed	No	N/A	N/A	S
24005	1	18	D02-2363-----PI	HPCI/ Turbine Inlet Line Pressure Indicator	M-51/ AY/ A-10	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24006	1	18	D02-2364-----PT	HPCI/ Turbine Inlet Line Pressure Transmitter	M-51/ AY/ A-10	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24007	1	18	D02-2340-0004--PI	HPCI/ Turbine Inlet Line Pressure Indicator	M-51/ AY/ A-10	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24008	1	8A	D02-2301-0003-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	SR		Closed	Open	Yes	12E-2529-2/ AJ	MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S
24009	1	I	D02-2305-0500-V15	HPCI/ Turbine Steam Line Test Valve	M-51/ AY/ A-8	Reactor	476' 6"	HP RM2 N/44	N/A		Closed	Closed	No	N/A	N/A	S
24010	1	5	D02-2301-----T20	HPCI/ HPCI Turbine	M-51/ AY/ A-6	Reactor	476' 6"	HP RM2 N/45	S 5		Off	On	No	N/A	N/A	S
24011	1	I	D02-2366-R----V15	HPCI/ Turbine Steam Instrument Line Root Valve	M-51/ AY/ B-6	Reactor	476' 6"	HP RM2 N/44	N/A		Open	Open	No	N/A	N/A	S
24012	1	18	D02-2367-----PI	HPCI/ Turbine Exhaust Line Local Pressure Indicator	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A		N/A	N/A	No	N/A	N/A	S
24013	1	18	D02-2366-----PT	HPCI/ Turbine Exhaust Line Pressure Transmitter	M-51/ AY/ B-6	Reactor	476' 6"	SW C. RM M/43	N/A		N/A	N/A	No	N/A	N/A	S
24014	1	18	D02-2340-0005--PI	HPCI/ Turbine Exhaust Line Pressure Indicator	M-51/ AY/ B-6	Reactor	476' 6"	SW C.RM M/43	N/A		N/A	N/A	No	N/A	N/A	S
24015	1	18	D02-2368-A-----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-51/ AY/ B-6	Reactor	476' 6"	SW C.RM M/43	N/A		N/A	N/A	No	N/A	N/A	S
24016	1	18	D02-2368-B-----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-51/ AY/ B-6	Reactor	476' 6"	SW C.RM M/43	N/A		N/A	N/A	No	N/A	N/A	S
24017	1	R	D02-2301-0045-V25	HPCI/ Turbine Exhaust Line Check Valve	M-51/ AY/ B-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S
24018	1	I	D02-2301-0041AV15	HPCI/ Turbine Exhaust Line Drain Valve	M-51/ AY/ B-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Closed	No	N/A	N/A	S
24019	1	I	D02-2301-0074-V18	HPCI/ Turbine Exhaust Line Valve	M-51/ AY/ C-7	Reactor	476' 6"	TORUS BAY 13	N/A		Open	Open	No	N/A	N/A	S
24020	1	R	D02-2399-0076AV25	HPCI/ Turbine Exhuast Line Vacuum Breaker	M-51/ AY/ D-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S
24021	1	R	D02-2399-0076BV25	HPCI/ Turbine Exhuast Line Vacuum Breaker	M-51/ AY/ D-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24022	1	R	D02-2399-0077AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-51/ AY/ D-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S
24023	1	R	D02-2399-0077BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-51/ AY/ D-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S
24024	1	I	D02-2399-0107-V15	HPCI/ Turbine Steam Drain Line Drain Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
24025	1	I	D02-2399-0002-V15	HPCI/ Turbine Steam Drain Line Root Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
24026	1	18	D02-2365-----LSH	HPCI/ Turbine Steam Drain Line Level Switch	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24027	1	I	D02-2301-0055-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
24028	1	I	D02-2301-0001-M01	HPCI/ Turbine Steam Drain Line Trap	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24029	1	I	D02-2301-0054-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
24030	1	R	D02-2301-0029-V05	HPCI/ Turbine Steam Drain Line Valve	M-51/ AY/ B-10	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Closed	No	N/A	N/A	S
24031	1	R	D02-2301-0028-V05	HPCI/ Turbine Steam Drain Line Valve	M-51/ AY/ B-8	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Open	No	N/A	N/A	S
24032	1	I	D02-2301-0063BM01	HPCI/ Turbine Steam Drain Line Restricting Orifice	M-51/ AY/ B-8	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24033	1	I	D02-2399-0072-V15	HPCI/ Turbine Exhaust Drain Line Root Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
24034	1	18	D02-2369-----LSH	HPCI/ Turbine Exhaust Drain Line Level Switch	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24035	1	I	D02-2301-0050-V15	HPCI/ Turbine Exhaust Drain Line Bypass Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Closed	No	N/A	N/A	S
24036	1	I	D02-2301-0033-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
24037	1	I	D02-2301-0002-M01	HPCI/ Turbine Exhaust Drain Line Trap	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A		N/A	N/A	No	N/A	N/A	S
24038	1	I	D02-2301-0047-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-51/ AY/ C-7	Reactor	476' 6"	HP RM2 N/45	N/A		Open	Open	No	N/A	N/A	S
24039	1	R	D02-2301-0034-V25	HPCI/ Turbine Exhaust Drain Line Check Valve	M-51/ AY/ D-7	Reactor	476' 6"	HP RM2 N/45	N/A		Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. --> POWER SUPPORTING SYS. REQ'D INTERCONNECTIONS REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13) (14) (15) (16) (17)
24040	1	I	D02-2301-0041BV15	HPCI/ Turbine Exhaust Drain Line Drain Valve	M-51/ AY/ D-7	Reactor	476' 6"	HP RM2 N/45	N/A	Closed Closed No N/A N/A S
24041	1	I	D02-2301-0071-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-51/ AY/ D-7	Reactor	476' 6"	HP RM2 N/45	N/A	Open Open No N/A N/A S
24042	1	I	D02-1501-0070BV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BAY 13	N/A	Closed Closed No N/A N/A S
24043	1	I	D02-1599-0027BV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	SW C.RM N/42	N/A	Closed Closed No N/A N/A S
24044	1	I	D02-1501-0033BV15	LPCI/ Suppression Pool Suction Line Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 13	N/A	Open Open No N/A N/A S
24045	1	I	D02-1599-0073BV15	LPCI/ Suppression Pool Suction Line Vent Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 13	N/A	Closed Closed No N/A N/A S
24046	1	8A	D02-1501-0005CV20	LPCI/ Suppression Pool Suction Line "C" Valve	M-29-1/ BC/ E-5	Reactor	476' 6"	SW C.RM N/43	R	Open Open No 12E-2440-1/ AC MOTIVE/CONTROL-N/A S
24047	1	8A	D02-1501-0005DV20	LPCI/ Suppression Pool Suction Line "D" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SW C.RM N/43	R	Open Open No 12E-2440-1/ AC MOTIVE/CONTROL-N/A S
24048	1	I	D02-1501-0031CV15	LPCI/ Condensate Storage Tank Suction Line "C" Valve	M-29-1/ BC/ E-5	Reactor	476' 6"	SW C.RM N/43	N/A	Closed Closed No N/A N/A S
24049	1	I	D02-1501-0031DV15	LPCI/ Condensate Storage Tank Suction Line "D" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SW C.RM N/43	N/A	Closed Closed No N/A N/A S
24050	1	18	D02-1501-0047C-PI	LPCI/ LPCI Pump Suction Line "C" Pressure Indicator	M-29-1/ BC/ E-4	Reactor	476' 6"	SW C.RM N/43	N/A	N/A N/A No N/A N/A S
24051	1	18	D02-1501-0047D-PI	LPCI/ LPCI Pump Suction Line "D" Pressure Indicator	M-29-1/ BC/ F-4	Reactor	476' 6"	SW C.RM N/43	N/A	N/A N/A No N/A N/A S
24052	1	I	D02-1501-0006CV15	LPCI/ Suppression Pool Suction Line "C" Drain Valve	M-29-1/ BC/ E-4	Reactor	476' 6"	SW C.RM N/43	N/A	Closed Closed No N/A N/A S
24053	1	I	D02-1501-0006DV15	LPCI/ Suppression Pool Suction Line "D" Drain Valve	M-29-1/ BC/ F-4	Reactor	476' 6"	SW C.RM N/43	N/A	Closed Closed No N/A N/A S
24054	1	7	D02-1599-0013CV26	LPCI/ Suppression Pool Suction Line "C" Relief Valve	M-29-1/ BC/ E-4	Reactor	476' 6"	SW C.RM N/43	N/A	Closed Operbl. No N/A N/A S
24055	1	7	D02-1599-0013DV26	LPCI/ Suppression Pool Suction Line "D" Relief Valve	M-29-1/ BC/ F-4	Reactor	476' 6"	SW C.RM N/43	N/A	Closed Operbl. No N/A N/A S
24056	1	6	D02-1502-C----P30	LPCI/ LPCI Injection Pump "C"	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	SR 1,2	Off On Yes 12E-2436-2/ Y MOTIVE-4160V AC Switchgear 24-1 CONTROL-125V DC TB Res Bus #2B-1 S

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24057	1	6	D02-1502-D----	P30 LPCI/ LPCI Injection Pump "D"	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	SR	1,2	Off	On	Yes	12E-2436-2/ Y	MOTIVE-4160V AC Switchgear 24-1 CONTROL-125V DC TB Res Bus #2B-1	S
24058	1	I	D02-1501-0074CV15	LPCI/ LPCI Pump Line "C" Vent Valve	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Closed	No	N/A	N/A	S
24059	1	I	D02-1501-0074DV15	LPCI/ LPCI Pump Line "D" Vent Valve	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Closed	No	N/A	N/A	S
24060	1	I	D02-1501-0014CV15	LPCI/ LPCI Pump Line "C" Drain Valve	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Closed	No	N/A	N/A	S
24061	1	I	D02-1501-0014DV15	LPCI/ LPCI Pump Line "D" Drain Valve	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Closed	No	N/A	N/A	S
24062	1	18	D02-1501-0048C-PI	LPCI/ LPCI Pump Discharge Line "C" Pressure Indicator	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	N/A		N/A	N/A	No	N/A	N/A	S
24063	1	18	D02-1501-0048D-PI	LPCI/ LPCI Pump Discharge Line "D" Pressure Indicator	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	N/A		N/A	N/A	No	N/A	N/A	S
24064	1	18	D02-1554-C-----	PS LPCI/ Pump "C" Discharge Pressure Switch (ROB-2202-36)	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	B		N/A	N/A	No	N/A	N/A	S
24065	1	18	D02-1554-D-----	PS LPCI/ Pump "D" Discharge Pressure Switch (ROB-2202-36)	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	B		N/A	N/A	No	N/A	N/A	S
24066	1	18	D02-1554-H-----	PS LPCI/ Pump "C" Discharge Pressure Switch (ROB-2202-36)	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	B		N/A	N/A	No	N/A	N/A	S
24067	1	18	D02-1554-J-----	PS LPCI/ Pump "D" Discharge Pressure Switch (ROB-2202-36)	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	B		N/A	N/A	No	N/A	N/A	S
24068	1	R	D02-1501-0063CV25	LPCI/ LPCI Pump Discharge Line "C" Check Valve	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM M-N/43	N/A		Closed	Operbl.	No	N/A	N/A	S
24069	1	R	D02-1501-0063DV25	LPCI/ LPCI Pump Discharge Line "D" Check Valve	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM M-N/43	N/A		Closed	Operbl.	No	N/A	N/A	S
24070	1	I	D02-1501-0009CV15	LPCI/ LPCI Pump Discharge Line "C" Valve	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM M-N/43	N/A		Open	Open	No	N/A	N/A	S
24071	1	I	D02-1501-0009DV15	LPCI/ LPCI Pump Discharge Line "D" Valve	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM M-N/43	N/A		Open	Open	No	N/A	N/A	S
24072	1	I	D02-1501-0152-V15	LPCI/ LPCI Pump Discharge Line "C" Drain Valve	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		Closed	Closed	No	N/A	N/A	S
24073	1	18	D02-1546-B-----	TE LPCI/ LPCI Heat Exchanger Line Temperature Element	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24074	1	18	D02-1546-B1-----	TE LPCI/ LPCI Heat Exchanger Line Temperature Element	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24075	1	18	D02-1540-0005--TR	LPCI/ LPCI Heat Exchanger Temperature Recorder	M-29-1/ BC/ E-8	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24076	1	I	D02-1501-0010BV15	LPCI/ LPCI Heat Exchanger Inlet Line Valve	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		Open	Open	No	N/A	N/A	S
24077	1	21	D02-1503-B----H15	LPCI/ LPCI Heat Exchanger	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	S		N/A	N/A	No	N/A	N/A	S
24078	1	I	D02-1501-0012BV15	LPCI/ LPCI Heat Exchanger Outlet Line Valve	M-29-1/ BC/ E-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		Open	Open	No	N/A	N/A	S
24079	1	8A	D02-1501-00118V20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-29-1/ BC/ E-2	Reactor	476' 6"	SW C.RM M-N/43	SR 1		Open	Closed	Yes	12E-2440-2/ AC	MOTIVE/CONTROL-MCC 29-4	S
24080	1	18	D02-1543-B----PDT	LPCI/ Heat Exchanger Differential Pressure Transmitter	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24081	1	18	D02-1501-090B-PDS	LPCI/ Heat Exchanger Differential Pressure Switch	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24082	1	18	D02-1555-B-----FY	LPCI/ Heat Exchanger Differential Pressure Converter	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24083	1	18	D02-1540-003BDPIC	LPCI/ Heat Exchanger Differential Pressure Controller	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24084	1	18	D02-1540-0006B-ZC	LPCI/ Heat Exchanger Differential Pressure Modulator	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24085	1	18	D02-1547-B-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-29-1/ BC/ D-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24086	1	18	D02-1547-B1-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-29-1/ BC/ D-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24087	1	8A	D02-1501-0032BV20	LPCI/ LPCI Header Crosstie Line Valve	M-29-1/ BC/ D-2	Reactor	476' 6"	SW C.RM N/43	SR 1		Open	Closed	Yes	12E-2440-3/ AC	MOTIVE/CONTROL-MCC 29-4	S
24088	1	18	D02-1548-B-----FE	LPCI/ LPCI Header Flow Element	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44		N/A	N/A	N/A	No	N/A	N/A	S
24089	1	18	D02-1549-B-----FT	LPCI/ LPCI Header Flow Transmitter	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44		N/A	N/A	N/A	No	N/A	N/A	S
24090	1	18	D02-1540-0007--FR	LPCI/ LPCI Header Flow Recorder	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39		N/A	N/A	N/A	No	N/A	N/A	S
24091	1	18	D02-1501-0058B--FT	LPCI/ LPCI Header Flow Transmitter	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44		N/A	N/A	N/A	No	N/A	N/A	S
24092	1	18	D02-1501-0092BFIS	LPCI/ LPCI Header Flow Indicating Switch	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44		N/A	N/A	N/A	No	N/A	N/A	S
24093	1	I	D02-1501-0017BV26	LPCI/ LPCI Header Line Relief Valve	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44		N/A	Closed	Closed	No	N/A	N/A	S
24094	1	18	D02-1501-0051B-PS	LPCI/ LPCI Header Pressure Switch High	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44		N/A	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24095	1	18	D02-1557-B----PSL	LPCI/ LPCI Header Pressure Switch Low	M-29-1/ BC/ C-2	Reactor	476' 6"	N/44	N/A		N/A	N/A	No	N/A	N/A	S
24096	1	I	D02-1501-0045BV15	LPCI/ Drywell Spray Line Drain Valve	M-29-1/ BC/ A-3	Reactor	517' 6"	M/40-41	N/A		Closed	Closed	No	N/A	N/A	S
24097	1	8A	D02-1501-0027BV20	LPCI/ Drywell Spray Line Valve	M-29-1/ BC/ A-3	Reactor	545' 6"	L/41	R		Closed	Closed	No	12E-2440-3/ AC	MOTIVE/CONTROL-N/A	S
24098	1	8A	D02-1501-0018BV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	TORUS BAY 11	R		Closed	Closed	No	12E-2441-1/ Y	MOTIVE/CONTROL-N/A	S
24099	1	18	D02-1550-B-----FE	LPCI/ LPCI Injection Line Flow Element	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24100	1	18	D02-1501-0053BFSL	LPCI/ LPCI Injection Line Flow Switch Low	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24101	1	18	D02-1562-D-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24102	1	18	D02-1562-B-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24103	1	18	D02-1559-B-----FY	LPCI/ LPCI Injection Line Flow Converter	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24104	1	18	D02-1559-D-----FY	LPCI/ LPCI Injection Line Flow Converter	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24105	1	18	D02-1561-B-----FI	LPCI/ LPCI Injection Line Flow Indicator	M-29-1/ BC/ B-3	Reactor	476' 6"	K/44	N/A		N/A	N/A	No	N/A	N/A	S
24106	1	8A	D02-1501-0021BV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-2	Reactor	517' 6"	K/44	R		Open	Open	No	12E-2441A/ Z	MOTIVE/CONTROL-N/A	S
24107	1	I	D02-1501-0079BV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	K/43	N/A		Closed	Closed	No	N/A	N/A	S
24108	1	8A	D02-1501-0038BV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	TORUS BAY 10	SR 1		Closed	Open	Yes	12E-2441-1/ Y	MOTIVE-MCC 29-4 CONTROL-MCC 29-4, 125V DC TB Res Bus #2B-1	S
24109	1	I	D02-1501-0087BV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	TORUS BAY 11	N/A		Closed	Closed	No	N/A	N/A	S
24110	1	8A	D02-1501-0020BV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	TORUS BAY 11	SR 1		Closed	Open	Yes	12E-2441-2/ Z	MOTIVE-MCC 29-1 CONTROL-MCC 29-1, 125V DC TB Res Bus #2B-1	S
24111	1	8A	D02-1501-0022BV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-3	Reactor	476' 6"	TORUS BAY 10	R		Closed	Closed	No	12E-2441A/ Z	MOTIVE/CONTROL-N/A	S
24112	1	I	D02-1599-0002BV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-3	Reactor	476' 6"	TORUS BAY 10	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24113	1	8A	D02-1501-0013BV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-29-1/ BC/ D-3	Reactor	476' 6"	TORUS BAY 11	SR	1	Open	Operbl.	Yes	12E-2440-2/ AC	MOTIVE-MCC 29-4 CONTROL-MCC 29-4, 125V DC Bus #2B-1, 24/48V DC Dist. Panel #3A	S
24114	1	I	D02-1501-0064CV15	LPCI/ LPCI Minimum Flow Line "C" Valve	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	N/A		Open	Open	No	N/A	N/A	S
24115	1	I	D02-1501-0064DV15	LPCI/ LPCI Minimum Flow Line "D" Valve	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	N/A		Open	Open	No	N/A	N/A	S
24116	1	R	D02-1501-0065CV15	LPCI/ LPCI Minimum Flow Line "C" Check Valve	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Operbl.	No	N/A	N/A	S
24117	1	R	D02-1501-0065DV15	LPCI/ LPCI Minimum Flow Line "D" Check Valve	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Operbl.	No	N/A	N/A	S
24118	1	10	D02-5746-B----H15	LPCI/ LPCI Emergency Room Air Cooler	M-22/ BY/ C-7	Reactor	476' 6"	SW C.RM M/44	SR	1	Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 29-4 COOLING-Service Water System	S
24119	1	I	D02-1501-0036CV15	CCSW/ CCSW Pump Suction Line "C" Valve	M-29-2/ Z/ E-2	Turbine	495' 0"	VAULT RM D/38	N/A		Open	Open	No	N/A	N/A	S
24120	1	I	D02-1501-0036DV15	CCSW/ CCSW Pump Suction Line "D" Valve	M-29-2/ Z/ F-2	Turbine	495' 0"	D/39	N/A		Open	Open	No	N/A	N/A	S
24121	1	I	D02-1599-0017CV15	CCSW/ CCSW Pump Suction Instrument Line "C" Valve	M-29-2/ Z/ E-2	Turbine	495' 0"	VAULT RM D/38	N/A		Closed	Closed	No	N/A	N/A	S
24122	1	I	D02-1599-0017DV15	CCSW/ CCSW Pump Suction Instrument Line "D" Valve	M-29-2/ Z/ F-2	Turbine	495' 0"	D/39	N/A		Closed	Closed	No	N/A	N/A	S
24123	1	5	D02-1501-0044CP30	CCSW/ CCSW Pump "C"	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	SR	1,2	Off	On	Yes	12E-2435-2/ Y	MOTIVE-4160V AC Switchgear 24 CONTROL-125V DC TB Res Bus #2B-1	S
24124	1	5	D02-1501-0044DP30	CCSW/ CCSW Pump "D"	M-29-2/ Z/ F-3	Turbine	495' 0"	D/39	SR	1,2	Off	On	Yes	12E-2435-2/ Y	MOTIVE-4160V AC Switchgear 24 CONTROL-125V DC TB Res Bus #2B-1	S
24125	1	I	D02-1599-0018CV15	CCSW/ CCSW Pump "C" Vent Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A		Closed	Closed	No	N/A	N/A	S
24126	1	I	D02-1599-0018DV15	CCSW/ CCSW Pump "D" Vent Valve	M-29-2/ Z/ F-3	Turbine	495' 0"	D/39	N/A		Closed	Closed	No	N/A	N/A	S
24127	1	I	D02-1599-0021CV15	CCSW/ CCSW Pump "C" Drain Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A		Closed	Closed	No	N/A	N/A	S
24128	1	I	D02-1599-0021DV15	CCSW/ CCSW Pump "D" Drain Valve	M-29-2/ Z/ F-3	Turbine	495' 0"	D/39	N/A		Closed	Closed	No	N/A	N/A	S
24129	1	18	D02-1501-0059C1PT	CCSW/ CCSW Pump "C" Discharge Pressure Transmitter	M-29-2/ Z/ E-3	Turbine	495' 0"	D/50-51	N/A		N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
24130	1	18	D02-1501-0059D1PT	CCSW/ CCSW Pump "D" Discharge Pressure Transmitter	M-29-2/ Z/ F-3	Turbine	495' 0"	D/51-52	N/A	N/A	N/A	No	N/A	N/A	S
24131	1	18	D02-1501-0059C-PI	CCSW/ CCSW Pump "C" Discharge Pressure Indicator	M-29-2/ Z/ E-3	Turbine	495' 0"	D/50-51	N/A	N/A	N/A	No	N/A	N/A	S
24132	1	18	D02-1501-0059D-PI	CCSW/ CCSW Pump "D" Discharge Pressure Indicator	M-29-2/ Z/ F-3	Turbine	495' 0"	D/51-52	N/A	N/A	N/A	No	N/A	N/A	S
24133	1	I	D02-1599-0034CV15	CCSW/ CCSW Pump Cooler "C" and "D" Suction Line Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24134	1	I	D02-1599-0080CV15	CCSW/ CCSW Pump Cooler "C" and "D" 4-Way Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24135	1	I	D02-1599-0081CV15	CCSW/ Pump Cooler "C" and "D" Inlet Instrument Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Closed	Closed	No	N/A	N/A	S
24136	1	10	D02-5700-0030CH15	CCSW/ CCSW Pump Cooler "C"	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	S	N/A	N/A	No	N/A	N/A	S
24137	1	21	D02-5700-30C1-F05	CCSW/ CCSW Pump Cooler "C" Fan (ROB-Pump Cooler)	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2678C/ F	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
24138	1	21	D02-5700-30C2-F05	CCSW/ CCSW Pump Cooler "C" Fan (ROB-Pump Cooler)	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2678C/ F	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
24139	1	10	D02-5700-0030DH15	CCSW/ CCSW Pump Cooler "D"	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	S	N/A	N/A	No	N/A	N/A	S
24140	1	21	D02-5700-30D1-F05	CCSW/ CCSW Pump Cooler "D" Fan (ROB-Pump Cooler)	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2678C/ F	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
24141	1	21	D02-5700-30D2-F05	CCSW/ CCSW Pump Cooler "D" Fan (ROB-Pump Cooler)	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2678C/ F	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
24142	1	I	D02-1599-0035CV15	CCSW/ CCSW Pump Cooler "C" Drip Pan Drain Line Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24143	1	I	D02-1599-0036CV15	CCSW/ CCSW Pump Cooler "D" Drip Pan Drain Line Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24144	1	I	D02-1599-0037CV15	CCSW/ CCSW Pump Cooler "C" Return Line Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24145	1	I	D02-1599-0038CV15	CCSW/ CCSW Pump Cooler "D" Return Line Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24146	1	I	D02-1599-0082CV15	CCSW/ Pump Cooler "C" and "D" Outlet Instrument Valve	M-29-2/ Z/ E-2	Turbine	495' 0"	VAULT RM D/38	N/A	Closed	Closed	No	N/A	N/A	S
24147	1	I	D02-1532-----M01	CCSW/ Pump Cooler "C" and "D" Restricting Orifice	M-29-2/ Z/ E-2	Turbine	495' 0"	VAULT RM D/38	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24148	1	I	D02-1533-----M01	CCSW/ Pump Cooler "C" and "D" Restricting Orifice	M-29-2/ Z/ E-2	Turbine	495' 0"	VAULT RM D/38	N/A		N/A	N/A	No	N/A	N/A	S
24149	1	I	D02-1599-0033CV15	CCSW/ CCSW Pump Cooler "C" and "D" Return Line Valve	M-29-2/ Z/ E-2	Turbine	495' 0"	VAULT RM D/38	N/A		Open	Open	No	N/A	N/A	S
24150	1	R	D02-1501-0001CV25	CCSW/ CCSW Pump "C" Discharge Line Check Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A		Open	Operbl.	No	N/A	N/A	S
24151	1	R	D02-1501-0001DV25	CCSW/ CCSW Pump "D" Discharge Line Check Valve	M-29-2/ Z/ F-3	Turbine	495' 0"	D/39	N/A		Open	Operbl.	No	N/A	N/A	S
24152	1	I	D02-1501-0002CV15	CCSW/ CCSW Pump "C" Discharge Line Valve	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	N/A		Open	Open	No	N/A	N/A	S
24153	1	I	D02-1501-0002DV15	CCSW/ CCSW Pump "D" Discharge Line Valve	M-29-2/ Z/ F-3	Turbine	495' 0"	D/39	N/A		Open	Open	No	N/A	N/A	S
24154	1	I	D02-1599-0022CV15	CCSW/ CCSW Pump "C" Discharge Line Drain Valve	M-29-2/ Z/ E-4	Turbine	495' 0"	VAULT RM D/38	N/A		Closed	Closed	No	N/A	N/A	S
24155	1	I	D02-1599-0022DV15	CCSW/ CCSW Pump "D" Discharge Line Drain Valve	M-29-2/ Z/ F-4	Turbine	495' 0"	D/39	N/A		Closed	Closed	No	N/A	N/A	S
24156	1	I	D02-3999-0339-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-29-2/ Z/ E-4	Turbine	495' 0"	D/39	N/A		Open	Open	No	N/A	N/A	S
24157	1	I	D02-3999-0338-V25	SERVICE WATER/ DG Pump Keepfill Line Check Valve	M-29-2/ Z/ E-4	Turbine	495' 0"	D/39	N/A		Closed	Closed	No	N/A	N/A	S
24158	1	I	D02-3999-0637-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-29-2/ Z/ E-4	Turbine	495' 0"	D/38	N/A		Open	Open	No	N/A	N/A	S
24159	1	I	D02-3999-0647-V15	SERVICE WATER/ Pump Keepfill Line Drain Valve	M-29-2/ Z/ C-4	Turbine	495' 0"	D/38	N/A		Closed	Closed	No	N/A	N/A	S
24160	1	I	D02-3999-0636-V25	SERVICE WATER/ Pump Keepfill Line Check Valve	M-29-2/ Z/ E-4	Turbine	495' 0"	D/38	N/A		Closed	Closed	No	N/A	N/A	S
24161	1	18	D02-1541-----B-FE	CCSW/ CCSW Pump "C" and "D" Discharge Flow Element	M-29-2/ Z/ E-4	Reactor	476' 6"	M-N/43-44	N/A		N/A	N/A	No	N/A	N/A	S
24162	1	18	D02-1556-----B-FT	CCSW/ Pump "C" and "D" Flow Transmitter (ROB-2202-36)	M-29-2/ Z/ E-4	Reactor	476' 6"	SW C.RM M/43	B		N/A	N/A	No	N/A	N/A	S
24163	1	18	D02-1556-----D-FT	CCSW/ Pump "C" and "D" Flow Transmitter (ROB-2202-36)	M-29-2/ Z/ E-4	Reactor	476' 6"	SW C.RM M/43	B		N/A	N/A	No	N/A	N/A	S
24164	1	18	D02-1558-----B-FY	CCSW/ Pump "C" and "D" Flow Converter (ROB-902-19)	M-29-2/ Z/ E-4	Turbine	534' 0"	C. RM PL 902-19 B			N/A	N/A	No	N/A	N/A	S
24165	1	18	D02-1558-----D-FY	CCSW/ Pump "C" and "D" Flow Converter (ROB-902-19)	M-29-2/ Z/ E-4	Turbine	534' 0"	C. RM PL 902-19 B			N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24166	1	18	D02-1560-----B-FI	CCSW/ Pump "C" and "D" Flow Indicator (ROB-902-3)	M-29-2/ Z/ E-4	Turbine	534' 0"	C. RM PNL 902-3 BR			Operbl.	Operbl.	Yes	12E-6836/ D	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-49	
24167	1	I	D02-1501-00048V15	CCSW/ CCSW Pump "C" and "D" Discharge Header Valve	M-29-2/ Z/ D-4	Reactor	476' 6"	SW C.RM M-N/43	N/A		Open	Open	No	N/A	N/A	S
24168	1	I	D02-1501-00778V15	CCSW/ CCSW Heat Exchanger Inlet Instrument Line Valve	M-29-1/ BC/ E-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		Closed	Closed	No	N/A	N/A	S
24169	1	18	D02-1552-B-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-29-1/ BC/ E-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24170	1	18	D02-1552-B1-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-29-1/ BC/ E-2	Reactor	476' 6"	SW C.RM M-N/43	N/A		N/A	N/A	No	N/A	N/A	S
24171	1	I	D02-1501-00788V15	CCSW/ CCSW Heat Exchanger Outlet Instrument Line Valve	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM N/43	N/A		Closed	Closed	No	N/A	N/A	S
24172	1	18	D02-1545-----B-TE	CCSW/ CCSW Heat Exchanger Outlet Temperature Element	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM N/43	N/A		N/A	N/A	No	N/A	N/A	S
24173	1	8A	D02-1501-00038V20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM N/43	SR 1,2		Closed	Operbl.	Yes	12E-2440-1/ AC	MOTIVE-MCC 29-4 CONTROL-MCC 29-4, 125V DC Bus #28-1, 120V AC Essen. Bus 902-49	S
24174	2	7	D02-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24175	2	7	D02-0203-00048V26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24176	2	7	D02-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24177	2	7	D02-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24178	2	7	D02-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24179	2	7	D02-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24180	2	7	D02-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24181	2	7	D02-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24182	2	8B	D02-0203-0003AV26	ADS/ Target Rock Valve	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	SR 1,2		Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN CLASS	EQUIP	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. ST. --> Normal Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24183	2	88	D02-0203-0003BV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
24184	2	88	D02-0203-0003EV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-6	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
24185	2	88	D02-0203-0003CV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ D-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
24186	2	88	D02-0203-0003DV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ B-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	S
24187	2	I	D02-4799-0427-V15	INSTRUMENT AIR/ Target Rock Accumulator Drain Valve	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24188	2	21	D02-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
24189	2	I	D02-4799-0281AV25	INSTRUMENT AIR/ Target Rock Accumulator Check Valve	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24190	2	18	D02-0261-0037A-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24191	2	18	D02-0261-0037B-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24192	2	18	D02-0261-0037C-PS	ADS/ Target Rock Pressure Switch	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24193	2	18	D02-0261-0014A-TE	ADS/ Target Rock Temperature Element	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24194	2	18	D02-0261-0014B-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24195	2	18	D02-0261-0014E-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ E-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24196	2	18	D02-0261-0014C-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ D-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24197	2	18	D02-0261-0014D-TE	ADS/ Electromatic Temperature Element	M-12-1/ NR/ B-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24198	2	R	D02-0220-0105AV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24199	2	R	D02-0220-0105BV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24200	2	R	D02-0220-0105CV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24201	2	R	D02-0220-0105DV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24202	2	R	D02-0220-0105EV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24203	2	R	D02-0299-0068AV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24204	2	R	D02-0299-0068BV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24205	2	R	D02-0299-0068CV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24206	2	R	D02-0299-0068DV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24207	2	R	D02-0299-0068EV25	ADS/ Blowdown Line Vacuum Breaker	M-25/ CC/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
24208	2	18	D02-0261-0001A-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ F-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24209	2	18	D02-0261-0001B-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24210	2	18	D02-0261-0001C-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24211	2	18	D02-0261-0001D-FE	MAIN STEAM/ Injection Line Flow Element	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
24212	2	I	D02-0220-0011AV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24213	2	I	D02-0220-0012AV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24214	2	I	D02-0220-0011BV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24215	2	I	D02-0220-0012BV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24216	2	I	D02-0220-0011CV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24217	2	I	D02-0220-0012CV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24218	2	I	D02-0220-0011DV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24219	2	I	D02-0220-0012DV15	MAIN STEAM/ Injection Instrument Line Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Open	No	N/A	N/A	S
24220	2	R	D02-0220-0017AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24221	2	R	D02-0220-0018AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ E-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24222	2	R	D02-0220-0017BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Filter Criteria: (Eval. Concern CONTAINS 'S')
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24223	2	R	D02-0220-0018BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ D-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24224	2	R	D02-0220-0017CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24225	2	R	D02-0220-0018CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ C-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24226	2	R	D02-0220-0017DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24227	2	R	D02-0220-0018DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-12-2/ AAH/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A		Open	Operbl.	No	N/A	N/A	S
24228	2	7	D02-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
24229	2	88	D02-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
24230	2	88	D02-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
24231	2	7	D02-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
24232	2	88	D02-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
24233	2	88	D02-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
24234	2	7	D02-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
24235	2	88	D02-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
24236	2	88	D02-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
24237	2	7	D02-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
24238	2	88	D02-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
24239	2	88	D02-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
24240	2	21	D02-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24241	2	21	D02-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
24242	2	21	D02-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
24243	2	21	D02-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
24244	2	I	D02-0220-0084AV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24245	2	I	D02-0220-0084BV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24246	2	I	D02-0220-0084CV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24247	2	I	D02-0220-0084DV25	MAIN STEAM/ Accumulator Line Check Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
24248	2	8A	D02-0220-0001-V20	MAIN STEAM/ Isolation Valve Line Drain Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	R		Closed	Closed	No	N/A	MOTIVE/CONTROL-N/A	S
24249	2	I	D02-1501-0070AV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 15	N/A		Closed	Closed	No	N/A	N/A	S
24250	2	I	D02-1599-0027AV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	SE C.RM M/39	N/A		Closed	Closed	No	N/A	N/A	S
24251	2	I	D02-1501-0033AV15	LPCI/ Suppression Pool Suction Line Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 15	N/A		Open	Open	No	N/A	N/A	S
24252	2	I	D02-1599-0073AV15	LPCI/ Suppression Pool Suction Line Vent Valve	M-29-1/ BC/ D-5	Reactor	476' 6"	TORUS BSMT 15	N/A		Closed	Closed	No	N/A	N/A	S
24253	2	8A	D02-1501-0005BV20	LPCI/ Suppression Pool Suction Line "B" Valve	M-29-1/ BC/ E-5	Reactor	476' 6"	SE C.RM N/39	R		Open	Open	No	12E-2440-1/ AC	MOTIVE/CONTROL-N/A	S
24254	2	8A	D02-1501-0005AV20	LPCI/ Suppression Pool Suction Line "A" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SE C.RM N/39	R		Open	Open	No	12E-2440-1/ AC	MOTIVE/CONTROL-N/A	S
24255	2	I	D02-1501-0031BV15	LPCI/ Condensate Storage Tank Suction Line "B" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24256	2	I	D02-1501-0031AV15	LPCI/ Condensate Storage Tank Suction Line "A" Valve	M-29-1/ BC/ F-5	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24257	2	18	D02-1501-0047B-PI	LPCI/ LPCI Pump Suction Line "B" Pressure Indicator	M-29-1/ BC/ E-6	Reactor	476' 6"	SE C.RM N/39	N/A		N/A	N/A	No	N/A	N/A	S
24258	2	18	D02-1501-0047A-PI	LPCI/ LPCI Pump Suction Line "A" Pressure Indicator	M-29-1/ BC/ F-6	Reactor	476' 6"	SE C.RM N/39	N/A		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT NOTES		OP. ST. -->	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24259	2	I	D02-1501-0006BV15	LPCI/ Suppression Pool Suction Line "B" Drain Valve	M-29-1/ BC/ E-6	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24260	2	I	D02-1501-0006AV15	LPCI/ Suppression Pool Suction Line "A" Drain Valve	M-29-1/ BC/ F-6	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24261	2	7	D02-1599-0013BV26	LPCI/ Suppression Pool Suction Line "B" Relief Valve	M-29-1/ BC/ E-6	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
24262	2	7	D02-1599-0013AV26	LPCI/ Suppression Pool Suction Line "A" Relief Valve	M-29-1/ BC/ F-6	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
24263	2	6	D02-1502-B----P30	LPCI/ LPCI Injection Pump "B"	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	SR	1,2	Off	On	Yes	12E-2436-1/ AA	MOTIVE-4160V AC Switchgear 23-1 CONTROL-125V DC Bus #2A-1, RB Dist. Panel #2	S
24264	2	6	D02-1502-A----P30	LPCI/ LPCI Injection Pump "A"	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	SR	1,2	Off	On	Yes	12E-2436-1/ AA	MOTIVE-4160V AC Switchgear 23-1 CONTROL-125V DC Bus #2A-1, RB Dist. Panel #2	S
24265	2	I	D02-1501-0074BV15	LPCI/ LPCI Pump Line "B" Vent Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24266	2	I	D02-1501-0074AV15	LPCI/ LPCI Pump Line "A" Vent Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24267	2	I	D02-1501-0014BV15	LPCI/ LPCI Pump Line "B" Drain Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24268	2	I	D02-1501-0014AV15	LPCI/ LPCI Pump Line "A" Drain Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Closed	No	N/A	N/A	S
24269	2	18	D02-1501-0048B-PI	LPCI/ LPCI Pump Discharge Line "B" Pressure Indicator	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		N/A	N/A	No	N/A	N/A	S
24270	2	18	D02-1501-0048A-PI	LPCI/ LPCI Pump Discharge Line "A" Pressure Indicator	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		N/A	N/A	No	N/A	N/A	S
24271	2	18	D02-1554-B-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
24272	2	18	D02-1554-A-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
24273	2	18	D02-1554-F-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S
24274	2	18	D02-1554-E-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2202-29)	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM M/39	B		N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24275	2	R	D02-1501-0063BV25	LPCI/ LPCI Pump Discharge Line "B" M-29-1/ BC/ E-7 Check Valve		Reactor	476' 6"	SE C.RM M/39	N/A		Closed	Operbl.	No	N/A	N/A	S
24276	2	R	D02-1501-0063AV25	LPCI/ LPCI Pump Discharge Line "A" M-29-1/ BC/ F-7 Check Valve		Reactor	476' 6"	SE C.RM M/39	N/A		Closed	Operbl.	No	N/A	N/A	S
24277	2	I	D02-1501-0009BV15	LPCI/ LPCI Pump Discharge Line "B" M-29-1/ BC/ E-7 Valve		Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Open	No	N/A	N/A	S
24278	2	I	D02-1501-0009AV15	LPCI/ LPCI Pump Discharge Line "A" M-29-1/ BC/ F-7 Valve		Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Open	No	N/A	N/A	S
24279	2	I	D02-1501-0155-V15	LPCI/ LPCI Pump Discharge Line "A" M-29-1/ BC/ F-8 Drain Valve		Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
24280	2	18	D02-1546-A-----TE	LPCI/ LPCI Heat Exchanger Line Temperature Element	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24281	2	18	D02-1546-A1-----TE	LPCI/ LPCI Heat Exchanger Line Temperature Element	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24282	2	I	D02-1501-0010AV15	LPCI/ LPCI Heat Exchanger Inlet Line Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Open	No	N/A	N/A	S
24283	2	21	D02-1503-A-----H15	LPCI/ LPCI Heat Exchanger	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	S		N/A	N/A	No	N/A	N/A	S
24284	2	I	D02-1501-0012AV15	LPCI/ LPCI Heat Exchanger Outlet Line Valve	M-29-1/ BC/ E-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Open	No	N/A	N/A	S
24285	2	I	D02-1599-0029-V15	LPCI/ LPCI Heat Exchanger Bypass Line Drain Valve	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
24286	2	8A	D02-1501-0011AV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	SR 1		Open	Closed	Yes	12E-2440-2/ AC	MOTIVE/CONTROL-MCC 28-1	S
24287	2	18	D02-1543-A-----PDT	LPCI/ Heat Exchanger Differential Pressure Transmitter	M-29-1/ BC/ F-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24288	2	18	D02-1501-090A-PDS	LPCI/ Heat Exchanger Differential Pressure Switch	M-29-1/ BC/ F-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24289	2	18	D02-1555-A-----FY	LPCI/ Heat Exchanger Differential Pressure Converter	M-29-1/ BC/ F-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24290	2	18	D02-1540-003ADPIC	LPCI/ Heat Exchanger Differential Pressure Controller	M-29-1/ BC/ F-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24291	2	18	D02-1540-0006A-ZC	LPCI/ Heat Exchanger Differential Pressure Modulator	M-29-1/ BC/ F-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24292	2	18	D02-1547-A-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-29-1/ BC/ D-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24293	2	18	D02-1547-A1-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-29-1/ BC/ D-9	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24294	2	8A	D02-1501-0032AV20	LPCI/ LPCI Header Crosstie Line Valve	M-29-1/ BC/ D-8	Reactor	476' 6"	SE C.RM N/39	SR	1	Open	Closed	Yes	12E-2440-3/ AC	MOTIVE/CONTROL-MCC 28-1 S	S
24295	2	18	D02-1548-A-----FE	LPCI/ LPCI Header Flow Element	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24296	2	18	D02-1549-A-----FT	LPCI/ LPCI Header Flow Transmitter	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24297	2	18	D02-1501-0058A-FT	LPCI/ LPCI Header Flow Transmitter	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24298	2	18	D02-1501-0092AFIS	LPCI/ LPCI Header Flow Indicating Switch	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24299	2	I	D02-1501-0017AV26	LPCI/ LPCI Header Line Relief Valve	M-29-1/ BC/ C-8	Reactor	476' 6"	M-N/38-39	N/A		Closed	Closed	No	N/A	N/A	S
24300	2	18	D02-1501-0051A-PS	LPCI/ LPCI Header Pressure Switch High	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24301	2	18	D02-1557-A----PSL	LPCI/ LPCI Header Pressure Switch Low	M-29-1/ BC/ C-9	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24302	2	I	D02-1501-0045AV15	LPCI/ Drywell Spray Line Drain Valve	M-29-1/ BC/ A-7	Reactor	517' 6"	L-M/40-41	N/A		Closed	Closed	No	N/A	N/A	S
24303	2	8A	D02-1501-0027AV20	LPCI/ Drywell Spray Line Valve	M-29-1/ BC/ A-7	Reactor	517' 6"	L/40	R		Closed	Closed	No	12E-2440-3/ AC	MOTIVE/CONTROL-N/A	S
24304	2	8A	D02-1501-0018AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 1	R		Closed	Closed	No	12E-2441-1/ Y	MOTIVE/CONTROL-N/A	S
24305	2	18	D02-1550-A-----FE	LPCI/ LPCI Injection Line Flow Element	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24306	2	18	D02-1501-0053AFSL	LPCI/ LPCI Injection Line Flow Switch Low	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24307	2	18	D02-1562-C-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24308	2	18	D02-1562-A-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24309	2	18	D02-1559-A-----FY	LPCI/ LPCI Injection Line Flow Converter	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24310	2	18	D02-1559-C-----FY	LPCI/ LPCI Injection Line Flow Converter	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24311	2	18	D02-1561-A-----FI	LPCI/ LPCI Injection Line Flow Indicator	M-29-1/ BC/ B-7	Reactor	476' 6"	K/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24312	2	8A	D02-1501-0021AV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-8	Reactor	517' 6"	K/38-39	R		Open	Open	No	12E-2441-3/ Z	MOTIVE/CONTROL-N/A	S
24313	2	I	D02-1501-0079AV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	K/38-39	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST.	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	Normal	Desired	(14)	(15)	(16)	(17)
24314	2	8A	D02-1501-0038AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-2441-1/ Y	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC TB Main Bus #2A-1	S
24315	2	I	D02-1501-0087BV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 11	N/A		Closed	Closed	No	N/A	N/A	S
24316	2	8A	D02-1501-0020AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 1	SR	1	Closed	Open	Yes	12E-2441-2/ Z	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC TB Main Bus #2A-1	S
24317	2	8A	D02-1501-0022AV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-7	Reactor	476' 6"	TORUS BAY 2	R		Closed	Closed	No	12E-2441-4/ AA	MOTIVE/CONTROL-N/A	S
24318	2	I	D02-1599-0002AV15	LPCI/ LPCI Injection Line Drain Valve	M-29-1/ BC/ B-7	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Closed	No	N/A	N/A	S
24319	2	8A	D02-1501-0013AV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-29-1/ BC/ D-7	Reactor	476' 6"	TORUS BAY 1	SR	1	Open	Operbl.	Yes	12E-2440-2/ AC	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC Bus #2A-1, 24/48V DC Dist. Panel #2A	S
24320	2	I	D02-1501-0064BV15	LPCI/ LPCI Minimum Flow Line "B" Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Open	Open	No	N/A	N/A	S
24321	2	I	D02-1501-0064AV15	LPCI/ LPCI Minimum Flow Line "A" Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Open	Open	No	N/A	N/A	S
24322	2	R	D02-1501-0065BV15	LPCI/ LPCI Minimum Flow Line "B" Check Valve	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
24323	2	R	D02-1501-0065AV15	LPCI/ LPCI Minimum Flow Line "A" Check Valve	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	N/A		Closed	Operbl.	No	N/A	N/A	S
24324	2	10	D02-5746-A----H15	LPCI/ LPCI Emergency Room Air Cooler	M-22/ BY/ C-7	Reactor	476' 6"	SE C.RM M/38	SR	1	Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 28-1 COOLING-Service Water System	S
24325	2	I	D02-1501-0036AV15	CCSW/ CCSW Pump Suction Line "A" Valve	M-29-2/ Z/ B-2	Turbine	495' 0"	D/36	N/A		Open	Open	No	N/A	N/A	S
24326	2	I	D02-1501-0036BV15	CCSW/ CCSW Pump Suction Line "B" Valve	M-29-2/ Z/ C-2	Turbine	495' 0"	VAULT RM D/38	N/A		Open	Open	No	N/A	N/A	S
24327	2	I	D02-1599-0017AV15	CCSW/ CCSW Pump Suction Instrument Line "A" Valve	M-29-2/ Z/ B-2	Turbine	495' 0"	D/36	N/A		Closed	Closed	No	N/A	N/A	S
24328	2	I	D02-1599-0017BV15	CCSW/ CCSW Pump Suction Instrument Line "B" Valve	M-29-2/ Z/ C-2	Turbine	495' 0"	VAULT RM D/38	N/A		Closed	Closed	No	N/A	N/A	S
24329	2	5	D02-1501-0044AP30	CCSW/ CCSW Pump "A"	M-29-2/ Z/ B-3	Turbine	495' 0"	D/36	SR	1,2	Off	On	Yes	12E-2435-1/ Y	MOTIVE-4160V AC Switchgear 23 CONTROL-125V DC TB Main Bus #2A-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	-- OP. ST. -->	POWER SUPPORTING SYS. REQ'D	SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13)	(14)	(15)	(16)	(17)
24330	2	5	D02-1501-00448P30	CCSW/ CCSW Pump "B"	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	SR 1,2	Off On	Yes	12E-2435-1/ Y	MOTIVE-4160V AC Switchgear 23 CONTROL-125V DC TB Main Bus #2A-1	S
24331	2	I	D02-1599-0018AV15	CCSW/ CCSW Pump "A" Vent Valve	M-29-2/ Z/ B-3	Turbine	495' 0"	D/36	N/A	Closed Closed	No	N/A	N/A	S
24332	2	I	D02-1599-0018BV15	CCSW/ CCSW Pump "B" Vent Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Closed Closed	No	N/A	N/A	S
24333	2	I	D02-1599-0021AV15	CCSW/ CCSW Pump "A" Drain Valve	M-29-2/ Z/ B-3	Turbine	495' 0"	D/36	N/A	Closed Closed	No	N/A	N/A	S
24334	2	I	D02-1599-0021BV15	CCSW/ CCSW Pump "B" Drain Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Closed Closed	No	N/A	N/A	S
24335	2	I	D02-3999-0337-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-29-2/ Z/ C-4	Turbine	495' 0"	D/39	N/A	Open Open	No	N/A	N/A	S
24336	2	I	D02-3999-0336-V25	SERVICE WATER/ DG Pump Keepfill Line Check Valve	M-29-2/ Z/ C-4	Turbine	495' 0"	D/39	N/A	Closed Closed	No	N/A	N/A	S
24337	2	I	D02-3999-0635-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-29-2/ Z/ C-4	Turbine	495' 0"	D/38	N/A	Open Open	No	N/A	N/A	S
24338	2	I	D02-3999-0648-V15	SERVICE WATER/ Pump Keepfill Line Drain Valve	M-29-2/ Z/ E-4	Turbine	495' 0"	D/38	N/A	Closed Closed	No	N/A	N/A	S
24339	2	I	D02-3999-0634-V25	SERVICE WATER/ Pump Keepfill Line Check Valve	M-29-2/ Z/ C-4	Turbine	495' 0"	D/38	N/A	Closed Closed	No	N/A	N/A	S
24340	2	18	D02-1501-0059A1PT	CCSW/ CCSW Pump "A" Discharge Pressure Transmitter	M-29-2/ Z/ B-3	Turbine	495' 0"	D/49	N/A	N/A N/A	No	N/A	N/A	S
24341	2	18	D02-1501-0059B1PT	CCSW/ CCSW Pump "B" Discharge Pressure Transmitter	M-29-2/ Z/ C-3	Turbine	495' 0"	D/50	N/A	N/A N/A	No	N/A	N/A	S
24342	2	18	D02-1501-0059A-PI	CCSW/ CCSW Pump "A" Discharge Pressure Indicator	M-29-2/ Z/ B-3	Turbine	495' 0"	D/49	N/A	N/A N/A	No	N/A	N/A	S
24343	2	18	D02-1501-0059B-PI	CCSW/ CCSW Pump "B" Discharge Pressure Indicator	M-29-2/ Z/ C-3	Turbine	495' 0"	D/50	N/A	N/A N/A	No	N/A	N/A	S
24344	2	I	D02-1599-00348V15	CCSW/ CCSW Pump Cooler "A" and "B" Suction Line Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open Open	No	N/A	N/A	S
24345	2	I	D02-1599-0080BV15	CCSW/ CCSW Pump Cooler "A" and "B" 4-Way Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open Open	No	N/A	N/A	S
24346	2	I	D02-1599-0081BV15	CCSW/ Pump Cooler "A" and "B" Inlet Instrument Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Closed Closed	No	N/A	N/A	S
24347	2	10	D02-5700-0030AH15	CCSW/ CCSW Pump Cooler "A"	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	S	N/A N/A	No	N/A	N/A	S
24348	2	21	D02-5700-30A1-F05	CCSW/ CCSW Pump Cooler "A" Fan (ROB-Pump Cooler)	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off On	Yes	12E-2675A/ AH	MOTIVE-MCC 28-2 CONTROL-MCC 28-2, 125V DC TB Main Bus #2A-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
24349	2	21	D02-5700-30A2-F05	CCSW/ CCSW Pump Cooler "A" Fan (ROB-Pump Cooler)	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2675C/ AA	MOTIVE-MCC 28-2 CONTROL-MCC 28-2, 125V DC TB Main Bus #2A-1	S
24350	2	10	D02-5700-00308H15	CCSW/ CCSW Pump Cooler "B"	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	S	N/A	N/A	No	N/A	N/A	S
24351	2	21	D02-5700-30B1-F05	CCSW/ CCSW Pump Cooler "B" Fan (ROB-Pump Cooler)	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2675C/ AA	MOTIVE-MCC 28-2 CONTROL-MCC 28-2, 125V DC TB Main Bus #2A-1	S
24352	2	21	D02-5700-30B2-F05	CCSW/ CCSW Pump Cooler "B" Fan (ROB-Pump Cooler)	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	BR 1	Off	On	Yes	12E-2675C/ AA	MOTIVE-MCC 28-2 CONTROL-MCC 28-2, 125V DC TB Main Bus #2A-1	S
24353	2	I	D02-1599-00358V15	CCSW/ CCSW Pump Cooler "A" Drip Pan Drain Line Valve	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24354	2	I	D02-1599-00368V15	CCSW/ CCSW Pump Cooler "B" Drip Pan Drain Line Valve	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24355	2	I	D02-1599-00378V15	CCSW/ CCSW Pump Cooler "A" Return Line Valve	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24356	2	I	D02-1599-00388V15	CCSW/ CCSW Pump Cooler "B" Return Line Valve	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24357	2	I	D02-1599-00828V15	CCSW/ Pump Cooler "A" and "B" Outlet Instrument Valve	M-29-2/ Z/ D-2	Turbine	495' 0"	VAULT RM D/38	N/A	Closed	Closed	No	N/A	N/A	S
24358	2	I	D02-1530-----M01	CCSW/ Pump Cooler "A" and "B" Restricting Orifice	M-29-2/ Z/ D-2	Turbine	495' 0"	VAULT RM D/38	N/A	N/A	N/A	No	N/A	N/A	S
24359	2	I	D02-1531-----M01	CCSW/ Pump Cooler "A" and "B" Restricting Orifice	M-29-2/ Z/ D-2	Turbine	495' 0"	VAULT RM D/38	N/A	N/A	N/A	No	N/A	N/A	S
24360	2	I	D02-1599-00338V15	CCSW/ CCSW Pump Cooler "A" and "B" Return Line Valve	M-29-2/ Z/ D-2	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24361	2	R	D02-1501-0001AV25	CCSW/ CCSW Pump "A" Discharge Line Check Valve	M-29-2/ Z/ B-3	Turbine	495' 0"	D/36	N/A	Closed	Operbl.	No	N/A	N/A	S
24362	2	R	D02-1501-0001BV25	CCSW/ CCSW Pump "B" Discharge Line Check Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Closed	Operbl.	No	N/A	N/A	S
24363	2	I	D02-1501-0002AV15	CCSW/ CCSW Pump "A" Discharge Line Valve	M-29-2/ Z/ B-3	Turbine	495' 0"	D/36	N/A	Open	Open	No	N/A	N/A	S
24364	2	I	D02-1501-0002BV15	CCSW/ CCSW Pump "B" Discharge Line Valve	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	N/A	Open	Open	No	N/A	N/A	S
24365	2	I	D02-1599-0022AV15	CCSW/ CCSW Pump "A" Discharge Line Drain Valve	M-29-2/ Z/ B-4	Turbine	495' 0"	D/36	N/A	Closed	Closed	No	N/A	N/A	S
24366	2	I	D02-1599-0022BV15	CCSW/ CCSW Pump "B" Discharge Line Drain Valve	M-29-2/ Z/ C-4	Turbine	495' 0"	VAULT RM D/38	N/A	Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS '3')
Program File Name & Version: SSEN 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. ST. --> POWER SUPPORTING SYS. REQ'D INTERCONNECTIONS REG. Normal Desired REQD? DWG. NO./REV. & SUPPORTING COMPONENTS ISSUE						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
24367	2	18	D02-1541-----A-FE	CCSW/ CCSW Pump "A" and "B" Discharge Flow Element	M-29-2/ Z/ B-4	Reactor	476' 6"	M-N/38-39	N/A		N/A	N/A	No	N/A	N/A	S
24368	2	18	D02-1556-----A-FT	CCSW/ Pump "A" and "B" Flow Transmitter (ROB-2202-29)	M-29-2/ Z/ B-4	Reactor	476' 6"	SE C.RM M/38	B		N/A	N/A	No	N/A	N/A	S
24369	2	18	D02-1556-----C-FT	CCSW/ Pump "A" and "B" Flow Transmitter (ROB-2202-29)	M-29-2/ Z/ B-4	Reactor	476' 6"	SE C.RM M/38	B		N/A	N/A	No	N/A	N/A	S
24370	2	18	D02-1558-----A-FY	CCSW/ Pump "A" and "B" Flow Converter (ROB-902-19)	M-29-2/ Z/ B-4	Turbine	534' 0"	C. RM PL 902-19	B		N/A	N/A	No	N/A	N/A	S
24371	2	18	D02-1558-----C-FY	CCSW/ Pump "A" and "B" Flow Converter (ROB-902-19)	M-29-2/ Z/ B-4	Turbine	534' 0"	C. RM PL 902-19	B		N/A	N/A	No	N/A	N/A	S
24372	2	18	D02-1560-----A-FI	CCSW/ Pump "A" and "B" Flow Indicator (ROB-902-3)	M-29-2/ Z/ B-4	Turbine	534' 0"	C. RM PNL 902-3 BR			Operbl.	Operbl.	Yes	12E-6836/ D	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
24373	2	I	D02-1501-0004AV15	CCSW/ CCSW Pump "A" and "B" Discharge Header Valve	M-29-2/ Z/ A-4	Reactor	476' 6"	SE C.RM M-N/38	N/A		Open	Open	No	N/A	N/A	S
24374	2	I	D02-1501-0077AV15	CCSW/ CCSW Heat Exchanger Inlet Instrument Line Valve	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
24375	2	18	D02-1552-A-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24376	2	18	D02-1552-A1-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24377	2	I	D02-1501-0078AV15	CCSW/ CCSW Heat Exchanger Outlet Instrument Line Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
24378	2	18	D02-1545-----A-TE	CCSW/ CCSW Heat Exchanger Outlet Temperature Element	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		N/A	N/A	No	N/A	N/A	S
24379	2	8A	D02-1501-0003AV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	SR 1,2		Closed	Operbl.	Yes	12E-2440-1/ AC	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC Bus #2A-1, 120V AC Essen. Bus 902-50	S
24380	2	I	D02-1501-0126-V15	CCSW/ Heat Exchanger Outlet Drain Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	N/A		Closed	Closed	No	N/A	N/A	S
25001	1	I	D02-3932-0500-V15	SERVICE WATER/ DG Cooling Water Pump Suction Line Valve	M-22/ BY/ B-10	C. House	490' 8"	A-B/4		N/A	Open	Open	No	N/A	N/A	S
25002	3	I	D02-3932-0501-V15	SERVICE WATER/ DG Cooling Water Pump Tie Line Valve	M-355/ PC/ A-9	C. House	490' 8"	A-B/4		N/A	Closed	Closed	No	N/A	N/A	S
25003	1	I	D02-3999-0375-V15	SERVICE WATER/ DG Cooling Water Pump Suction Test Valve	M-22/ BY/ B-10	C. House	490' 8"	A-B/4		N/A	Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
25004	1	5	D02-3903-----P30	SERVICE WATER/ Diesel Generator Cooling Water Pump	M-22/ BY/ B-10	C. House	490' 8"	A-B/4	SR	Off	On	Yes	12E-2350B-1/ Z	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
25005	1	R	D02-3930-0501-V25	SERVICE WATER/ DG Cooling Pump Discharge Check Valve	M-22/ BY/ B-10	C. House	490' 8"	A-B/4	N/A	Closed	Operbl.	No	N/A	N/A	S
25006	1	I	D02-3930-0500-V15	SERVICE WATER/ DG Cooling Pump Discharge Line Valve	M-22/ BY/ B-10	C. House	490' 8"	A-B/4	N/A	Open	Open	No	N/A	N/A	S
25007	1	I	D02-3999-0087-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-22/ BY/ B-10	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25008	1	I	D02-3999-0088-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-22/ BY/ B-9	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25009	1	18	D02-3941-0898--FE	SERVICE WATER/ DG Cooling Pump Discharge Flow Element	M-22/ BY/ B-9	Turbine	495' 0"	D/38-39	N/A	N/A	N/A	No	N/A	N/A	S
25010	1	I	D02-3999-0633-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-22/ BY/ B-9	Turbine	495' 0"	D/38-39	N/A	Open	Open	No	N/A	N/A	S
25011	1	I	D02-3933-0500-V15	SERVICE WATER/ DG Cooling Pump Discharge Line Valve	M-22/ BY/ B-8	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25012	1	I	D02-3999-0572-V15	SERVICE WATER/ Diesel Generator Cooling Drain Valve	M-22/ BY/ C-7	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25013	1	I	D02-3999-0091-V15	SERVICE WATER/ Diesel Generator Cooling Drain Valve	M-22/ BY/ C-7	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25014	1	I	D02-3930-0525-V18	SERVICE WATER/ Diesel Generator Cooling 3-Way Valve	M-22/ BY/ C-7	Turbine	495' 0"	D/38-39	N/A	Open	Open	No	N/A	N/A	S
25015	1	I	D02-3999-0092-V15	SERVICE WATER/ Diesel Generator Cooling Drain Valve	M-22/ BY/ C-7	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25016	1	I	D02-3931-0525-V18	SERVICE WATER/ Diesel Generator Cooling 3-Way Valve	M-22/ BY/ C-7	Turbine	495' 0"	D/38-39	N/A	Open	Open	No	N/A	N/A	S
25017	1	I	D02-3999-0573-V15	SERVICE WATER/ Diesel Generator Cooling Drain Valve	M-22/ BY/ C-7	Turbine	495' 0"	D/38-39	N/A	Closed	Closed	No	N/A	N/A	S
25018	1	17	D02-6601-----G05	DIESEL GENERATOR/ Diesel Engine Driven Generator	M-518-1/ C/ C-3	Turbine	517' 6"	DG RM2 G-H/35	SR	Off	On	Yes	M-41-2/ Q M-173/ AF M-974/ F 12E-2350A-1/ AH	MOTIVE-Diesel Fuel Oil, S Start Up Air, DG Ventilation CONTROL-125V DC Bus #2B-1	S
25019	1	21	D02-5201-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Tank	M-41-2/ Q/ D-7	N/A	BGrade	N/A	S	N/A	N/A	No	N/A	N/A	S
25020	1	I	D02-520180500-V15	DIESEL GENERATOR/ Fuel Oil Tank Suction Line Valve	M-41-2/ Q/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13)	(14)	(15)	(16)	(17)
25021	1	5	D02-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	SR	Off	Operbl.	Yes	12E-2350B-1/ Z	MOTIVE/CONTROL-MCC 29-2 S
25022	1	R	D02-5202B0501-V25	DIESEL GENERATOR/ Transfer Pump Relief Line Check Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Operbl.	No	N/A	S
25023	1	R	D02-5202B0500-V26	DIESEL GENERATOR/ Transfer Pump Relief Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Operbl.	No	N/A	S
25024	1	I	D02-5202-0500-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Closed	No	N/A	S
25025	1	R	D02-5202A0501-V25	DIESEL GENERATOR/ Transfer Pump Discharge Check Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Operbl.	No	N/A	S
25026	1	I	D02-5202A0500-V15	DIESEL GENERATOR/ Transfer Pump Discharge Line Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	S
25027	1	I	D00-5299-0287-V15	DIESEL GENERATOR/ Transfer Pump Discharge Tieline Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Closed	No	N/A	S
25028	1	I	D02-5299-0209-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	S
25029	1	I	D02-5299-0208-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Closed	No	N/A	S
25030	1	18	D02-5241-0001--PI	DIESEL GENERATOR/ Transfer Pump Pressure Indicator	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	N/A	N/A	No	N/A	S
25031	1	I	D00-5299-0294-V15	DIESEL GENERATOR/ Transfer Pump Discharge Line Valve	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	S
25032	1	21	D02-5202-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Day Tank	M-41-2/ Q/ F-6	Turbine	528' 3"	DG RM2 G-H/35	S 5	N/A	N/A	No	N/A	S
25033	1	18	D02-5241-0003--LS	DIESEL GENERATOR/ Fuel Oil Day Tank Level Switch	M-41-2/ Q/ F-6	Turbine	528' 3"	DG RM2 G-H/35	BR	N/A	N/A	No	N/A	S
25034	1	I	D02-5206-0500-V15	DIESEL GENERATOR/ Fuel Oil Day Tank Supply Line Valve	M-41-2/ Q/ F-6	Turbine	528' 3"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	S
25035	1	I	D02-5299-0205-V15	DIESEL GENERATOR/ Fuel Day Tank Supply Line Drain Valve	M-41-2/ Q/ F-6	Turbine	528' 3"	DG RM2 G-H/35	N/A	Closed	Closed	No	N/A	S
25036	1	12	D02-4600-H-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	M-173/ AF/ D-6	Turbine	528' 3"	DG RM2 G-H/35	S 6	N/A	N/A	No	N/A	S
25037	1	I	D02-6663-----F10	DIESEL GENERATOR/ Fuel Day Tank Supply Line Strainer	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	N/A	N/A	N/A	No	N/A	S
25038	1	5	D02-6664-----P30	DIESEL GENERATOR/ Fuel Oil Engine Driven Supply Pump	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	B	Off	On	No	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
25039	1	5	D02-6665-----P30	DIESEL GENERATOR/ Fuel Oil Priming Pump	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	BR		Off	On	Yes	12E-2350A-1/ AH	MOTIVE/CONTROL-125V DC TB Res Bus #2B-1	S
25040	1	R	D02-6699-122--V25	DIESEL GENERATOR/ Fuel Oil Priming Pump Check Valve	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Operbl.	No	N/A	N/A	S
25041	1	R	D02-6699-123--V16	DIESEL GENERATOR/ Fuel Oil Pressure Regulating Valve	M-518-1/ C/ D-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25042	1	I	D02-6699-124--V15	DIESEL GENERATOR/ Fuel Oil Instrument Line Valve	M-518-1/ C/ D-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25043	1	I	D02-6641-0011--PI	DIESEL GENERATOR/ Fuel Oil Pressure Indicator	M-518-1/ C/ D-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		N/A	N/A	No	N/A	N/A	S
25044	1	R	D02-6699-125A-V16	DIESEL GENERATOR/ Fuel Bypass Pressure Regulating Valve	M-518-1/ C/ D-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25045	1	R	D02-6699-125B-V16	DIESEL GENERATOR/ Fuel Bypass Pressure Regulating Valve	M-518-1/ C/ D-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25046	1	I	D02-6666-----F10	DIESEL GENERATOR/ Fuel Day Tank Return Line Strainer	M-518-1/ C/ D-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		N/A	N/A	No	N/A	N/A	S
25047	1	R	D02-6699-126--V25	DIESEL GENERATOR/ Fuel Oil Return Line Check Valve	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Operbl.	No	N/A	N/A	S
25048	1	12	D02-4600-B-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	M-173/ AF/ D-3	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
25049	1	12	D02-4600-C-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	M-173/ AF/ D-4	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
25050	1	12	D02-4600-G-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	M-173/ AF/ D-5	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
25051	1	I	D02-6699-121--V15	DIESEL GENERATOR/ Supply Line Shutoff Valve	M-518-1/ C/ C-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25052	1	I	D02-4699-0184-V15	DIESEL GENERATOR/ Air Receiver Unit "A1" Drain Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25053	1	I	D02-4699-0185-V15	DIESEL GENERATOR/ Air Receiver Unit "A2" Drain Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25054	1	I	D02-4699-0186-V15	DIESEL GENERATOR/ Air Receiver Unit "B1" Drain Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25055	1	I	D02-4699-0187-V15	DIESEL GENERATOR/ Air Receiver Unit "B2" Drain Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25056	1	I	D02-4699-0188-V15	DIESEL GENERATOR/ Air Receiver Unit "A1" Drain Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	Normal	Desired	(14)	(15)	(16)	(17)
25057	1	I	D02-4699-0189-V15	DIESEL GENERATOR/ Air Receiver Unit "A2" Drain Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25058	1	I	D02-4699-0190-V15	DIESEL GENERATOR/ Air Receiver Unit "B1" Drain Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25059	1	I	D02-4699-0191-V15	DIESEL GENERATOR/ Air Receiver Unit "B2" Drain Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25060	1	I	D02-4699-0306-V15	DIESEL GENERATOR/ Air Receiver "A1" Instrument Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25061	1	I	D02-4699-0307-V15	DIESEL GENERATOR/ Air Receiver "A2" Instrument Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25062	1	I	D02-4699-0308-V15	DIESEL GENERATOR/ Air Receiver "B1" Instrument Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25063	1	I	D02-4699-0309-V15	DIESEL GENERATOR/ Air Receiver "B2" Instrument Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25064	1	R	D02-4699-0313AV26	DIESEL GENERATOR/ Air Receiver "A1" Relief Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25065	1	R	D02-4699-0314AV26	DIESEL GENERATOR/ Air Receiver "A2" Relief Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25066	1	R	D02-4699-0313BV26	DIESEL GENERATOR/ Air Receiver "B1" Relief Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25067	1	R	D02-4699-0314BV26	DIESEL GENERATOR/ Air Receiver "B2" Relief Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25068	1	I	D02-4699-0311AV25	DIESEL GENERATOR/ Air Receivers "A" Supply Check Valve	M-173/ AF/ F-4	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25069	1	I	D02-4699-0311BV25	DIESEL GENERATOR/ Air Receivers "B" Supply Check Valve	M-173/ AF/ F-6	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25070	1	R	D02-4699-0312-V25	DIESEL GENERATOR/ Air Receivers "A" Outlet Check Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Operbl.	No	N/A	N/A	S
25071	1	R	D02-4699-0316-V25	DIESEL GENERATOR/ Air Receivers "B" Outlet Check Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Operbl.	No	N/A	N/A	S
25072	1	I	D02-4699-0192-V15	DIESEL GENERATOR/ Air Receivers "A" Outlet Line Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25073	1	I	D02-4699-0193-V15	DIESEL GENERATOR/ Air Receivers "B" Outlet Line Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25074	1	I	D02-4699-0194-V15	DIESEL GENERATOR/ Air Filter "A" Inlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir. Elev.	LOCATION Rm. or Row/Col.	SORT NOTES		OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
25075	1	I	D02-4600-E----F10	DIESEL GENERATOR/ Air Start Filter "A"	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		N/A	N/A	No	N/A	N/A	S
25076	1	I	D02-4699-0195-V15	DIESEL GENERATOR/ Air Filter "A" Outlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25077	1	I	D02-4699-0196-V15	DIESEL GENERATOR/ Air Filter "B" Inlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25078	1	I	D02-4600-D----F10	DIESEL GENERATOR/ Air Start Filter "B"	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		N/A	N/A	No	N/A	N/A	S
25079	1	I	D02-4699-0197-V15	DIESEL GENERATOR/ Air Filter "B" Outlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25080	1	I	D02-4699-0198-V15	DIESEL GENERATOR/ Air Filter Bypass Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25081	1	I	D02-4699-0199-V15	DIESEL GENERATOR/ Air Receiver Outlet Instrument Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25082	1	18	D02-4641-0006-DPS	DIESEL GENERATOR/ Air Receiver Diff. Pressure Switch	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		N/A	N/A	No	N/A	N/A	S
25083	1	I	D02-4699-0200-V15	DIESEL GENERATOR/ Air Receiver Outlet Instrument Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25084	1	R	D02-4699-0315-V10	DIESEL GENERATOR/ Air Start Pressure Regulating Valve	M-173/ AF/ A-9	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25085	1	I	D02-6699-0101-V15	DIESEL GENERATOR/ Air Start Strainer Blowdown Valve	M-173/ AF/ A-9	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Closed	No	N/A	N/A	S
25086	1	I	D02-6699-0102-V15	DIESEL GENERATOR/ Air Start Cutoff Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Open	No	N/A	N/A	S
25087	1	R	D02-6699-0103-V27	DIESEL GENERATOR/ Air Start Solenoid Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	R		Deenerg	Energ	Yes	12E-2350A-1/ AH	MOTIVE/CONTROL-125V DC TB Res Bus #2B-1	S
25088	1	R	D02-6699-0104-V25	DIESEL GENERATOR/ Air Start Check Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A		Closed	Operbl.	No	N/A	N/A	S
25089	1	R	D02-6699-0105-V05	DIESEL GENERATOR/ Air Start Air Operated Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A		Open	Operbl.	No	N/A	N/A	S
25090	1	I	D02-6699-0106-M01	DIESEL GENERATOR/ Air Start Lubricator	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A		N/A	N/A	No	N/A	N/A	S
25091	1	R	D02-6699-0107-M01	DIESEL GENERATOR/ Air Start Lower Air Driven Motor	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A		Off	On	No	N/A	N/A	S
25092	1	R	D02-6699-0108-M01	DIESEL GENERATOR/ Air Start Upper Air Driven Motor	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A		Off	On	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
25093	1	I	D02-6699-0133-V15	DIESEL GENERATOR/ Air Start Instrument Line Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A	Open	Open	No	N/A	N/A	S
25094	1	I	D02-6699-0134-V15	DIESEL GENERATOR/ Air Start Vent Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM2 G-H/35	N/A	Closed	Closed	No	N/A	N/A	S
25095	1	I	D02-9742-0042-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ C-5	Turbine	538' 0"	G-H/34	N/A	Open	Open	No	N/A	N/A	S
25096	1	10	D02-5772-0100-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ C-5	Turbine	538' 0"	G-H/34	S	Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
25097	1	I	D02-9472-0027-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Fire Damper	M-974/ F/ C-5	Turbine	517' 6"	G-H/34-35	N/A	Open	Open	No	N/A	N/A	S
25098	1	9	D02-5790-----F10	DIESEL GENERATOR/ Room Ventilation Fan	M-974/ F/ C-5	Turbine	517' 6"	DG RM2 G-H/35	SR	Off	On	Yes	12E-23508-1/ Z	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
25099	1	10	D02-5772-0101-D05	DIESEL GENERATOR/ Ventilation Fan Outlet Damper	M-974/ F/ C-5	Turbine	517' 6"	DG RM2 G-H/35	S	Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
25100	1	88	D02-5790-0003-V10	DIESEL GENERATOR/ Vent. Fan Damper Solenoid Operator	M-974/ F/ C-5	Turbine	538' 0"	G-H/35	S	Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
25101	1	88	D02-5790--EP2-V27	DIESEL GENERATOR/ Room Vent. Fan Dampers Solenoid Valve	M-974/ F/ C-5	Turbine	517' 6"	DG PNL 2252-47	SR	Deenerg	Energ	Yes	12E-2395/ L	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
25102	1	I	D02-9472-0025-D05	DIESEL GENERATOR/ Normal Ventilation Duct Fire Damper	M-974/ F/ C-5	Turbine	517' 6"	G-H/34-35	N/A	Open	Open	No	N/A	N/A	S
25103	1	10	D02-5772-0102-D05	DIESEL GENERATOR/ Normal Ventilation Duct Damper	M-974/ F/ C-5	Turbine	517' 6"	RFP RM G/35	S	Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
25104	1	88	D02-5790--EP3-V27	DIESEL GENERATOR/ Normal Vent. Damper Solenoid Valve	M-974/ F/ C-5	Turbine	517' 6"	DG PNL 2252-47	SR	Deenerg	Energ	Yes	12E-2395/ L	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Main Bus #2A-1	S
28001	3	1	D02-9802-A----P06	24/48V DC/ Distribution Panel #2A	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S	Energ	Energ	Yes	12E-2324-1/ Q	MOTIVE-24/48V DC Battery #2A CONTROL-N/A	S
28002	3	15	D02-9802-A----B04	24/48V DC/ Battery #2A	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S 6	Charged	Charged	No	N/A	N/A	S
28003	3	1	D02-9802A-A21-B11	24/48V DC/ Breaker to Battery Charger #2A (+)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	B	Closed	Closed	N/A	N/A	N/A	S
28004	3	1	D02-9802A-A22-B11	24/48V DC/ Breaker to Battery Charger #2A (-)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	B	Closed	Closed	N/A	N/A	N/A	S
28005	3	16	D02-9802-2APOS805	24/48V DC/ Battery Charger #2A (+)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR	Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
28006	3	16	D02-9802-2ANEGB05	24/48V DC/ Battery Charger #2A (-)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR	Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
28007	3	1	D02-9802-B----P06	24/48V DC/ Distribution Panel #2B	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S	Energ	Energ	Yes	12E-2324-1/ Q	MOTIVE-24/48V DC Battery #2B CONTROL-N/A	S
28008	3	15	D02-9802-B----B04	24/48V DC/ Battery #2B	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S 6	Charged	Charged	No	N/A	N/A	S
28009	3	1	D02-9802B-A21-B11	24/48V DC/ Breaker to Battery Charger #2B (+)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	B	Closed	Closed	N/A	N/A	N/A	S
28010	3	1	D02-9802B-A22-B11	24/48V DC/ Breaker to Battery Charger #2B (-)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	B	Closed	Closed	N/A	N/A	N/A	S
28011	3	16	D02-9802-2BPOSB05	24/48V DC/ Battery Charger #2B (+)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR	Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
28012	3	16	D02-9802-2BNEGB05	24/48V DC/ Battery Charger #2B (-)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR	Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
28013	1	1	D02-8302B-1---P06	125V DC/ TB Res Bus #2B-1 (ROB-TB Res Bus #2B)	12E-2322B/ D/ C-6	Turbine	549' 0"	B RM2 E/31	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Res Bus #2 CONTROL-N/A	S
28014	1	1	D02-83125-1---P06	125V DC/ TB Res Bus #2, Feed to TB Res Bus #2B-1	12E-2322B/ D/ D-6	Turbine	549' 0"	B RM2 E/31	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Main Bus #3A CONTROL-N/A	S
28015	1	1	D03-8303A1-1---P06	125V DC/ TB Main Bus #3A, Feed to Res Bus #2	12E-2322B/ D/ E-4	Turbine	538' 0"	G-H/54-55	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Battery Bus #3 CONTROL-N/A	S
28016	1	1	D03-83125-3---P06	125V DC/ TB Battery Bus #3, Feed to Main Bus #3A	12E-2322B/ D/ E-4	Turbine	538' 0"	G-H/54-55	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC Battery #3 CONTROL-N/A	S
28017	1	15	D03-8300--BC--B04	125V DC/ Battery #3, Feed to TB Battery Bus #3	12E-2322B/ D/ F-4	Turbine	551' 0"	B RM3 G-H/55	S 6	Charged	Charged	No	N/A	N/A	S
28018	1	16	D03-8300--3---B05	125V DC/ Battery Charger #3	12E-2322B/ D/ F-4	Turbine	538' 0"	BC RM3 G-H/55	SR	Operbl.	Operbl.	Yes	12E-3974/ C	MOTIVE/CONTROL-MCC 39-2	S
28019	1	16	D03-8300--3A--B05	125V DC/ Battery Charger #3A	12E-2322B/ D/ F-4	Turbine	538' 0"	G-H/54-55	SR	Operbl.	Operbl.	Yes	12E-3974A/ B	MOTIVE/CONTROL-MCC 38-2	S
28020	2	1	D02-83125-----P06	125V DC/ RB Distribution Panel #2	12E-2322B/ D/ B-6	Reactor	570' 0"	M-N/41-42	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Main Bus #2A-1 CONTROL-N/A	S
28021	2	1	D02-8302A1----P06	125V DC/ TB Main Bus #2A-1 (ROB-Main Bus #2A)	12E-2322B/ D/ E-6	Turbine	549' 0"	B RM2 E/31	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Battery Bus #2 CONTROL-N/A	S
28022	2	1	D02-83125-2---P06	125V DC/ TB Battery Bus #2, Feed to Main Bus #2A-1	12E-3322B/ C/ E-7	Turbine	549' 0"	B RM2 E/31	S	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC Battery #2 CONTROL-N/A	S
28023	2	15	D02-8300--BC--B04	125V DC/ Battery #2, Feed to TB Battery Bus #2	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	S 6	Charged	Charged	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
28024	2	16	D02-8300--2---B05	125V DC/ Battery Charger #2	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389D/ E	MOTIVE/CONTROL-MCC 29-2	S
28025	2	16	D02-8300--2A---B05	125V DC/ Battery Charger #2A	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389D/ E	MOTIVE/CONTROL-MCC 28-2	S
28026	1	1	D02-8302A-B01-M05	250V DC/ Breaker to Turbine Auxiliary Pump (ROB-Bus 2A)	12E-2321/ W/ C-8	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28027	1	1	D02-8302A-C01-M05	250V DC/ Breaker to Turbine Oil Pump (ROB-Bus 2A)	12E-2321/ W/ C-8	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28028	1	1	D02-8302A-C02-M05	250V DC/ Breaker to Gland Seal Cond. Fan (ROB-2A)	12E-2321/ W/ C-7	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28029	1	1	D02-8302A-D02-M05	250V DC/ Breaker to Hot. Condensate Pump (ROB-Bus 2A)	12E-2321/ W/ C-7	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28030	1	1	D02-8302A-G01-M05	250V DC/ Breaker to Line Valve 1201-2 (ROB-Bus 2A)	12E-2321/ W/ C-7	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28031	1	1	D02-8302A-H02-M05	250V DC/ Breaker to Line Valve 1301-2 (ROB-Bus 2A)	12E-2321/ W/ C-7	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28032	1	1	D02-8302AAA02-M05	250V DC/ Breaker to Steam Valve 2301-8 (ROB-Bus 2A)	12E-2321/ W/ C-3	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28033	1	1	D02-8302B-K02-M05	250V DC/ Breaker to Steam Valve 2301-3 (ROB-Bus 2B)	12E-2321/ W/ C-4	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28034	1	1	D02-8302B-L01-M05	250V DC/ Breaker to Steam Valve 2301-5 (ROB-Bus 2B)	12E-2321/ W/ C-4	Reactor	570' 0"	M-N/41-42	B		Open	Operbl.	No	N/A	N/A	S
28035	1	1	D02-8302B-L02-M05	250V DC/ Breaker to Test Valve 2301-14 (ROB-Bus 2B)	12E-2321/ W/ C-3	Reactor	570' 0"	M-N/41-42	B		Open	Closed	No	N/A	N/A	S
28036	1	1	D02-8302B-002-M05	250V DC/ Breaker to Line Valve 2301-35 (ROB-Bus 2B)	12E-2321/ W/ C-2	Reactor	570' 0"	M-N/41-42	B		Open	Operbl.	No	N/A	N/A	S
28037	1	1	D02-8302B-P01-M05	250V DC/ Breaker to Line Valve 2301-36 (ROB-Bus 2B)	12E-2321/ W/ C-2	Reactor	570' 0"	M-N/41-42	B		Open	Operbl.	No	N/A	N/A	S
28038	1	1	D02-8302B-P02-M05	250V DC/ Breaker to Line Valve 2301-6 (ROB-Bus 2B)	12E-2321/ W/ C-2	Reactor	570' 0"	M-N/41-42	B		Open	Operbl.	No	N/A	N/A	S
28039	1	1	D02-8302A-----M05	250V DC/ MCC Bus #2A (ROB-RB MCC #2)	12E-2321/ W/ D-6	Reactor	570' 0"	M-N/41-42	S	5	Energ	Energ	Yes	12E-2321/ W	MOTIVE-250V DC TB MCC #3 CONTROL-N/A	S
28040	1	1	D02-8302B-----M05	250V DC/ MCC Bus #2B (ROB-RB MCC #2)	12E-2321/ W/ D-4	Reactor	570' 0"	M-N/41-42	S	5	Energ	Energ	Yes	12E-2321/ W	MOTIVE-250V DC TB MCC #3 CONTROL-N/A	S
28041	1	1	D03-83250-I02-M05	250V DC/ Breaker to RB MCC #2 (ROB-TB MCC #3)	12E-3321/ U	Turbine	538' 0"	BC RM3 G-H/55	B		Closed	Closed	No	N/A	N/A	S
28042	1	1	D03-83250-----M05	250V DC/ TB MCC #3	12E-2321/ W/ B-8	Turbine	538' 0"	BC RM3 G-H/55	S		Energ	Energ	Yes	12E-2321/ W	MOTIVE-250V DC Battery #3 CONTROL-N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)	
28043	1	1	D03-83250-A01-M05	250V DC/ Breaker to TB MCC #3 (ROB-Battery #3)	12E-2321/ W/ B-8	Turbine	551' 0"	B RM3 G-H/55	B		Closed	Closed	No	N/A	N/A	S
28044	1	15	D03-83250-----804	250V DC/ Battery #3, Feed to TB MCC #3	12E-2321/ W/ B-8	Turbine	551' 0"	B RM3 G-H/55	S 6		Charged	Charged	No	N/A	N/A	S
28045	1	1	D03-83250-A03-M05	250V DC/ Breaker to Battery #3 (ROB-Battery Charger #3)	12E-2321/ W/ B-8	Turbine	538' 0"	BC RM3 G-H/55	B		Closed	Closed	No	N/A	N/A	S
28046	1	16	D03-83250-3---B05	250V DC/ Battery Charger #3	12E-2321/ W/ B-8	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3389A/ F	MOTIVE/CONTROL-MCC 38-2	S
28047	1	1	D03-83250-A02-M05	250V DC/ Breaker to Battery #3 (ROB-Battery Chrg #2/3)	12E-2321/ W/ B-8	Turbine	549' 0"	B RM2 E/31	B		Open	Operbl.	No	N/A	N/A	S
28048	1	1	D02-7829-01D1-S35	480V AC/ Breaker to Valve 2301-4 (ROB-MCC 29-1)	12E-2319/ X	Reactor	517' 6"	L/44	B		Open	Operbl.	No	N/A	N/A	S
28049	1	1	D02-7829-01E1-S35	480V AC/ Breaker to Valve 1402-248 (ROB-MCC 29-1)	12E-2319/ X	Reactor	517' 6"	L/44	B		Open	Operbl.	No	N/A	N/A	S
28050	1	1	D02-7829-1----M05	480V AC/ MCC 29-1	12E-2319/ X	Reactor	517' 6"	L/44	S 5		Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 29 CONTROL-N/A	S
28051	1	2	D02-7329-0294CS35	480V AC/ Breaker to MCC 29-1 (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Closed	No	12E-2374/ AB	MOTIVE/CONTROL-N/A	S
28052	1	1	D02-7829-04A1-S35	480V AC/ Breaker to Valve 1402-38 (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28053	1	1	D02-7829-04A3-S35	480V AC/ Breaker to Valve 1501-5C (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Operbl.	No	N/A	N/A	S
28054	1	1	D02-7829-04A4-S35	480V AC/ Breaker to Valve 1501-5D (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Operbl.	No	N/A	N/A	S
28055	1	1	D02-7829-04B1-S35	480V AC/ Breaker to Valve 1501-38B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28056	1	1	D02-7829-04B2-S35	480V AC/ Breaker to Valve 1501-20B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28057	1	1	D02-7829-04C2-S35	480V AC/ Breaker to Valve 1501-3B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28058	1	1	D02-7829-04C3-S35	480V AC/ Breaker to Valve 1501-32B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28059	1	1	D02-7829-04C4-S35	480V AC/ Breaker to Valve 1501-13B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Operbl.	No	N/A	N/A	S
28060	1	1	D02-7829-04D2-S35	480V AC/ Breaker to HPCI Cooling Pump (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
28061	1	1	D02-7829-04D3-S35	480V AC/ Breaker to HPCI Air Cooler (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28062	1	1	D02-7829-04D4-S35	480V AC/ Breaker to LPCI Air Cooler B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28063	1	1	D02-7829-04E4-S35	480V AC/ Breaker to Valve 1501-11B (ROB-MCC 29-4)	12E-2320/ AA	Reactor	517' 6"	M/44	B		Open	Closed	No	N/A	N/A	S
28064	1	1	D02-7829-4----M05	480V AC/ MCC 29-4	12E-2320/ AA	Reactor	517' 6"	M/44	S	5	Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 29 CONTROL-N/A	S
28065	1	1	D02-7829-02A1-S35	480V AC/ Breaker to 125V Battery Chg. #2 (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Operbl.	No	N/A	N/A	S
28066	1	1	D02-7829-02A2-S35	480V AC/ Breaker to DG Cooling Pump (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28067	1	1	D02-7829-02B2-S35	480V AC/ Breaker to Diesel Transfer Pump (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28068	1	1	D02-7829-02B6-S35	480V AC/ Breaker to 250V Batt. Chg. #2/3 (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Operbl.	No	N/A	N/A	S
28069	1	1	D02-7829-02D1-S35	480V AC/ Breaker to CCSW Cooler C, Fan 1 (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28070	1	1	D02-7829-02D2-S35	480V AC/ Breaker to CCSW Cooler C, Fan 2 (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28071	1	1	D02-7829-02D3-S35	480V AC/ Breaker to CCSW Cooler D, Fan 1 (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28072	1	1	D02-7829-02D4-S35	480V AC/ Breaker to CCSW Cooler D, Fan 2 (ROB-MCC 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28073	1	1	D02-7829-02D5-S35	480V AC/ Breaker to DG Vent Fan 3 (ROB 29-2)	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	B		Open	Closed	No	N/A	N/A	S
28074	1	1	D02-7829-2----M05	480V AC/ MCC 29-2	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	S	5	Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 29 CONTROL-N/A	S
28075	1	2	D02-7329-0293DS35	480V AC/ Breaker to MCC 29-2,4 (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Closed	No	12E-2374/ AB	MOTIVE/CONTROL-N/A	S
28076	3	1	D02-7329-08-1-S35	480V AC/ Breaker to CR Ventilation Panel (ROB-MCC 29-8)	12E-6811/ 2/ B-6	Turbine	517' 6"	D-E/33-34	B		Open	Closed	No	N/A	N/A	S
28077	3	1	D02-7329-08-2-S35	480V AC/ Breaker to CR Ventilation AFU (ROB-MCC 29-8)	12E-6811/ 2/ B-6	Turbine	517' 6"	D-E/33-34	B		Open	Closed	No	N/A	N/A	S
28078	3	1	D02-7329-08-3-S35	480V AC/ Breaker to CR Ventilation AHU (ROB-MCC 29-8)	12E-6811/ 2/ B-6	Turbine	517' 6"	D-E/33-34	B		Open	Closed	No	N/A	N/A	S

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
28079	3	1	D02-7329-08-S-S35	480V AC/ Breaker to CR Ventilation RCU (ROB-MCC 29-8)	12E-6811/ 2/ B-6	Turbine	517' 6"	D-E/33-34	B		Open	Closed	No	N/A	N/A	S
28080	3	1	D02-7829-8----M05	480V AC/ MCC 29-8	12E-6811/ 2/ B-6	Turbine	534' 0"	VENT RM2/3 G/32 S	5		Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 29 CONTROL-N/A	S
28081	3	2	D02-7329-0294DS35	480V AC/ Breaker to MCC 29-8 (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Operbl.	Yes	12E-2349-2/ AD	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28082	3	2	D02-7329-0293BS35	480V AC/ Breaker to MCC 29-7 (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Operbl.	Yes	12E-2374/ AB	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28083	1	2	D02-7329-0296AS35	480V AC/ Breaker to Drywell Fan C (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2306/ W	MOTIVE/CONTROL-N/A	S
28084	1	2	D02-7329-0296BS35	480V AC/ Breaker to Drywell Fan D (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2306/ W	MOTIVE/CONTROL-N/A	S
28085	1	2	D02-7329-0296CS35	480V AC/ Breaker to Drywell Fan E (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2306/ W	MOTIVE/CONTROL-N/A	S
28086	1	2	D02-7329-----S35	480V AC/ Switchgear 29	12E-2306/ W	Reactor	570' 0"	M-N/40-41	S	5	Energ	Energ	Yes	12E-2306/ W 12E-2322B/ D	MOTIVE-480V AC Transformer 29 CONTROL-125V DC TB Res Bus #2B-1	S
28087	3	2	D02-7329-0292CS35	480V AC/ Breaker to Switchgear 28 (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR	4	Open	Operbl.	Yes	12E-2349-3/ AC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28088	3	2	D02-7329-0292BS35	480V AC/ Breaker to Transformer 29 (ROB-Switchgear 29)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR	4	Closed	Operbl.	Yes	12E-2349-3/ AC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28089	1	4	D02-7229-----T10	480V AC/ Transformer 29, Feed to Switchgear 29	12E-2306/ W	Reactor	570' 0"	N/40	S		Energ	Energ	Yes	12E-2304/ S	MOTIVE-4160V AC Switchgear 24-1 CONTROL-N/A	S
28090	2	1	D02-7828-01C2-S35	480V AC/ Breaker to Valve 1201-1 (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B		Open	Closed	No	N/A	N/A	S
28091	2	1	D02-7828-01C3-S35	480V AC/ Breaker to Diesel Vent. Fan 2/3 (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B		Open	Closed	No	N/A	N/A	S
28092	2	1	D02-7828-01F1-S35	480V AC/ Breaker to Transfer Pump 2/3 (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B		Open	Closed	No	N/A	N/A	S
28093	2	1	D02-7828-01F3-S35	480V AC/ Breaker to LPCI Air Cooler (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B		Open	Closed	No	N/A	N/A	S
28094	2	1	D02-7828-01H1-S35	480V AC/ Breaker to Valve 1402-24A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B		Open	Closed	No	N/A	N/A	S
28095	2	1	D02-7828-01H3-S35	480V AC/ Breaker to Valve 1501-3A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B		Open	Operbl.	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
28096	2	1	D02-7828-01H4-S35	480V AC/ Breaker to Valve 1402-3A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28097	2	1	D02-7828-01J3-S35	480V AC/ Breaker to Valve 1301-4 (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28098	2	1	D02-7828-01J4-S35	480V AC/ Breaker to Valve 1301-1 (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28099	2	1	D02-7828-01K1-S35	480V AC/ Breaker to Valve 1501-5A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Operbl.	No	N/A	N/A	S
28100	2	1	D02-7828-01K2-S35	480V AC/ Breaker to Valve 1501-5B (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Operbl.	No	N/A	N/A	S
28101	2	1	D02-7828-01L1-S35	480V AC/ Breaker to Valve 1501-38A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28102	2	1	D02-7828-01L2-S35	480V AC/ Breaker to Valve 1501-20A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28103	2	1	D02-7828-01M3-S35	480V AC/ Breaker to Valve 1501-32A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28104	2	1	D02-7828-01N1-S35	480V AC/ Breaker to Valve 1501-13A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28105	2	1	D02-7828-01N2-S35	480V AC/ Breaker to Valve 1501-11A (ROB-MCC 28-1)	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	B	Open	Closed	No	N/A	N/A	S
28106	2	1	D02-7828-1---M05	480V AC/ MCC 28-1	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	S 5	Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 28 CONTROL-N/A	S
28107	2	2	D02-7328-0284AS35	480V AC/ Breaker to MCC 28-1 (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR	Closed	Closed	No	12E-2374/ AB	MOTIVE/CONTROL-N/A	S
28108	2	1	D02-7828-02B2-S35	480V AC/ Breaker to CCSW Cooler A, Fan 1 (ROB-MCC 28-2)	12E-2311/ AD/ E-5	Turbine	538' 0"	F-G/35-36	B	Open	Closed	No	N/A	N/A	S
28109	2	1	D02-7828-02D3-S35	480V AC/ Breaker to 125V Batt. Chg. 2A (ROB-MCC 28-2)	12E-2311/ AD/ E-3	Turbine	538' 0"	F-G/35-36	B	Open	Operbl.	No	N/A	N/A	S
28110	2	1	D02-7828-02E2-S35	480V AC/ Breaker to CCSW Cooler A, Fan 2 (ROB-MCC 28-2)	12E-2311/ AD/ E-2	Turbine	538' 0"	F-G/35-36	B	Open	Closed	No	N/A	N/A	S
28111	2	1	D02-7828-02F1-S35	480V AC/ Breaker to CCSW Cooler B, Fan 1 (ROB-MCC 28-2)	12E-2311/ AD/ C-2	Turbine	538' 0"	F-G/35-36	B	Open	Closed	No	N/A	N/A	S
28112	2	1	D02-7828-02F3-S35	480V AC/ Breaker to CCSW Cooler B, Fan 2 (ROB-MCC 28-2)	12E-2311/ AD/ C-2	Turbine	538' 0"	F-G/35-36	B	Open	Closed	No	N/A	N/A	S
28113	2	1	D02-7828-2---M05	480V AC/ MCC 28-2	12E-2311/ AD/ F-5	Turbine	538' 0"	F-G/35-36	S 5	Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 28 CONTROL-N/A	S

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. ST. --> Normal Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
28114	2	2	D02-7328-0284BS35	480V AC/ Breaker to MCC 28-2 (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Closed	No	12E-2374/ AB	MOTIVE/CONTROL-N/A	S
28115	2	1	D02-7828-03D1-S35	480V AC/ Breaker to DG Cooling Pump 2/3 (ROB-MCC 28-3)	12E-2312/ V/ D-3	Turbine	538' 0"	F-G/35-36	B		Open	Closed	No	N/A	N/A	S
28116	2	1	D02-7828-3----M05	480V AC/ MCC 28-3	12E-2312/ V/ F-6	Turbine	538' 0"	F-G/35-36	S	5	Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 28 CONTROL-N/A	S
28117	2	2	D02-7328-0284DS35	480V AC/ Breaker to MCC 28-3 (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Closed	No	12E-2374/ AB	MOTIVE/CONTROL-N/A	S
28118	2	1	D02-7828-07B3-S35	480V AC/ Breaker to Valve 1501-22A (ROB-MCC 28-7)	12E-2318/ AK/ A-2	Reactor	517' 6"	N/40	B		Open	Closed	No	N/A	N/A	S
28119	2	1	D02-7828-07B4-S35	480V AC/ Breaker to Valve 202-9A (ROB-MCC 28-7)	12E-2318/ AK/ B-3	Reactor	517' 6"	N/40	B		Open	Closed	No	N/A	N/A	S
28120	2	1	D02-7828-07C2-S35	480V AC/ Breaker to Valve 202-5A (ROB-MCC 28-7)	12E-2318/ AK/ D-4	Reactor	517' 6"	N/40	B		Open	Closed	No	N/A	N/A	S
28121	2	1	D02-7828-7----M05	480V AC/ MCC 28-7	12E-2318/ AK/ A-3	Reactor	517' 6"	N/40	S	5	Energ	Energ	Yes	12E-2306/ W	MOTIVE-480V AC Switchgear 28 CONTROL-N/A	S
28122	2	2	D02-7328-0285AS35	480V AC/ Breaker to MCC 28-7 (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Open	Operbl.	Yes	12E-2662E/ B	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2, TB Res Bus #2B-1	S
28123	1	2	D02-7328-0286AS35	480V AC/ Breaker to Drywell Fan A (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2606/ W	MOTIVE/CONTROL-N/A	S
28124	1	2	D02-7328-0286BS35	480V AC/ Breaker to Drywell Fan B (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2606/ W	MOTIVE/CONTROL-N/A	S
28125	1	2	D02-7328-0286CS35	480V AC/ Breaker to Drywell Fan F (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2606/ W	MOTIVE/CONTROL-N/A	S
28126	1	2	D02-7328-0286DS35	480V AC/ Breaker to Drywell Fan G (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR		Closed	Open	No	12E-2606/ W	MOTIVE/CONTROL-N/A	S
28127	2	2	D02-7328-----S35	480V AC/ Switchgear 28	12E-2306/ W	Reactor	570' 0"	M-N/40-41	S		Energ	Energ	Yes	12E-2306/ W 12E-2322B/ D	MOTIVE-480V AC Transformer 28 CONTROL-125V DC RB Distribution Panel #2	S
28128	3	2	D02-7328-0282CS35	480V AC/ Breaker to Switchgear 29 (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR	4	Open	Operbl.	Yes	12E-2349-3/ AC	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2	S
28129	3	2	D02-7328-0282BS35	480V AC/ Breaker to Transformer 28 (ROB-Switchgear 28)	12E-2306/ W	Reactor	570' 0"	M-N/40-41	BR	4	Closed	Operbl.	Yes	12E-2349-2/ AD	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. ST. --> POWER SUPPORTING SYS. REQ'D INTERCONNECTIONS REG.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	Normal Desired REQ? DWG. NO./REV. & SUPPORTING COMPONENTS ISSUE
28130	2	4	D02-7128-----T10	480V AC/ Transformer 28, Feed to Switchgear 28	12E-2306/ W	Reactor	570' 0"	N/40	S	Energ Energ Yes 12E-2304/ S MOTIVE-4160V Switchgear S 23-1 CONTROL-N/A
28131	2	3	N/A	4160V AC/ Breaker to LPCI Pump 2A (ROB-Swit. 23-1)	12E-2304/ S/ B-3	Reactor	545' 6"	M-N/39-40	BR	Open Closed Yes 12E-2322B/ D MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28132	2	3	N/A	4160V AC/ Breaker to LPCI Pump 2B (ROB-Swit. 23-1)	12E-2304/ S/ B-3	Reactor	545' 6"	M-N/39-40	BR	Open Closed Yes 12E-2322B/ D MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28133	1	3	N/A	4160V AC/ Breaker to RBCCW Pump 2A (ROB-Swit. 23-1)	12E-2304/ S/ B-6	Reactor	545' 6"	M-N/39-40	BR	Closed Open No 12E-2322B/ D MOTIVE/CONTROL-N/A S
28134	2	3	D02-6723-27	4160V AC/ Breaker to Switchgear 28 (ROB-Swit. 23-1)	12E-2304/ S/ B-3	Reactor	545' 6"	M-N/39-40	BR	Closed Closed No 12E-2349-1/ AC MOTIVE/CONTROL-N/A S
28135	2	3	D00-6723-33	4160V AC/ Breaker to Diesel Gen 2/3 (ROB-Swit. 23-1)	12E-2304/ S/ B-7	Reactor	545' 6"	M-N/39-40	BR	Open Operbl. Yes 12E-2345-1/ AT MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28136	2	3	D02-6723-29	4160V AC/ Breaker to Switchgear 23 (ROB-Swit. 23-1)	12E-2304/ S/ B-5	Reactor	545' 6"	M-N/39-40	BR	Closed Operbl. Yes 12E-2344-2/ V MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28137	2	3	D02-6723-32	4160V AC/ Breaker to Switchgear 33-1 (ROB-Swit. 23-1)	12E-2304/ S/ B-4	Reactor	545' 6"	M-N/39-40	BR	Open Operbl. Yes 12E-2345-4/ B MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28138	3	3	N/A	4160V AC/ Breaker to SDC Pump 1002-A (ROB-Swit. 23-1)	12E-2304/ S/ B-4	Reactor	545' 6"	M-N/39-40	BR	Closed Open Yes 12E-2516/ K MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28139	3	3	N/A	4160V AC/ Breaker to SDC Pump 1002-C (ROB-Swit. 23-1)	12E-2304/ S/ B-4	Reactor	545' 6"	M-N/39-40	BR	Closed Open Yes 12E-2516/ K MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28140	3	3	N/A	4160V AC/ Breaker to RWCU Pump 1205-A (ROB-Swit. 23-1)	12E-2304/ S/ B-4	Reactor	545' 6"	M-N/39-40	BR	Closed Open Yes 12E-2520/ V MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28141	3	3	N/A	4160V AC/ Breaker to CS Pump 1401-2A (ROB-Swit. 23-1)	12E-2304/ S/ B-4	Reactor	545' 6"	M-N/39-40	BR	Open Closed Yes 12E-2429-1/ AB MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #2
28142	2	3	D02-67231-----S35	4160V AC/ Switchgear 23-1	12E-2304/ S/ D-5	Reactor	545' 6"	M-N/39-40	S 5,6	Energ Energ Yes 12E-2322B/ D MOTIVE-Diesel Generator S #2/3 CONTROL-125V DC RB Distribution Panel #2
28143	1	3	N/A	4160V AC/ Breaker to LPCI Pump 2C (ROB-Swit. 24-1)	12E-2304/ S/ D-6	Reactor	545' 6"	M-N/41-42	BR	Open Closed Yes 12E-2322B/ D MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1
28144	1	3	N/A	4160V AC/ Breaker to LPCI Pump 2D (ROB-Swit. 24-1)	12E-2304/ S/ D-6	Reactor	545' 6"	M-N/41-42	BR	Open Closed Yes 12E-2322B/ D MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
28145	1	3	N/A	4160V AC/ Breaker to RBCCW Pump 2B (ROB-Swit. 24-1)	12E-2304/ S/ D-6	Reactor	545' 6"	M-N/41-42	BR	Closed	Open	No	12E-2322B/ D	MOTIVE/CONTROL-N/A	S
28146	2	3	N/A	4160V AC/ Breaker to RBCCW Pump 2/3 (ROB-Swit. 24-1)	12E-2304/ S/ D-6	Reactor	545' 6"	M-N/41-42	BR	Open	Open	Yes	12E-2322B/ D	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28147	1	3	D02-6724-26	4160V AC/ Breaker to Switchgear (ROB-Swit. 24-1)	29 12E-2304/ S/ D-6	Reactor	545' 6"	M-N/41-42	BR	Closed	Closed	No	12E-2349-2/ AD	MOTIVE/CONTROL-N/A	S
28148	1	3	D02-6724-22	4160V AC/ Breaker to Diesel Gen 2 (ROB-Swit. 24-1)	12E-2304/ S/ D-7	Reactor	545' 6"	M-N/41-42	BR	Open	Operbl.	Yes	12E-2346-2/ AN	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28149	1	3	D02-6724-30	4160V AC/ Breaker to Switchgear (ROB-Swit. 24-1)	24 12E-2304/ S/ D-5	Reactor	545' 6"	M-N/41-42	BR	Closed	Operbl.	Yes	12E-2344-4/ T	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28150	1	3	D02-6724-32	4160V AC/ Breaker to Switchgear 34-1 (ROB-Swit. 24-1)	12E-2304/ S/ D-4	Reactor	545' 6"	M-N/41-42	BR	Open	Operbl.	Yes	12E-2346-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28151	3	3	N/A	4160V AC/ Breaker to SDC Pump 1002-B (ROB-Swit. 24-1)	12E-2304/ S/ D-4	Reactor	545' 6"	M-N/41-42	BR	Closed	Open	Yes	12E-2516/ K	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28152	3	3	N/A	4160V AC/ Breaker to RMCU Pump 1205-B (ROB-Swit. 24-1)	12E-2304/ S/ D-4	Reactor	545' 6"	M-N/41-42	BR	Closed	Open	Yes	12E-2520/ V	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28153	3	3	N/A	4160V AC/ Breaker to CS Pump 1401-2B (ROB-Swit. 24-1)	12E-2304/ S/ D-4	Reactor	545' 6"	M-N/41-42	BR	Open	Closed	Yes	12E-2429-2/ AB	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
28154	1	3	D02-67241-----S35	4160V AC/ Switchgear 24-1	12E-2304/ S/ D-5	Reactor	545' 6"	M-N/41-42	S 5,6	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-Diesel Generator #2 CONTROL-125V DC TB Res Bus #2B-1	S
28155	2	3	N/A	4160V AC/ Breaker to CCSW Pump 2A (ROB-Swit. 23)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Open	Closed	Yes	12E-2322B/ D	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1	S
28156	2	3	N/A	4160V AC/ Breaker to CCSW Pump 2B (ROB-Swit. 23)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Open	Closed	Yes	12E-2322B/ D	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1	S
28157	1	3	N/A	4160V AC/ Breaker to SW Pump 2A (ROB-Swit. 23)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Closed	Closed	No	12E-2322B/ D	MOTIVE/CONTROL-N/A	S
28158	2	3	D02-6723-02	4160V AC/ Breaker to Switchgear 23-1 (ROB-Swit. 23)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Closed	Operbl.	Yes	12E-2344-1/ U	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1	S
28159	2	3	D02-6723-03	4160V AC/ Breaker to Unit Aux Trans 21 (ROB-Swit. 23)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Closed	Operbl.	Yes	12E-2342/ AC	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1	S
28160	2	3	D02-6723-11	4160V AC/ Breaker to Res Aux Trans 22 (ROB-Swit. 23)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Open	Operbl.	Yes	12E-2342/ AC	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1	S
28161	2	3	D02-6723-----S35	4160V AC/ Switchgear 23	12E-2303-2/ L	Turbine	534' 0"	D-E/31-32	S 5,6	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-Diesel Generator #2/3 CONTROL-125V DC TB Main Bus #2A-1	S
28162	1	3	N/A	4160V AC/ Breaker to CCSW Pump 2C (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR	Open	Closed	Yes	12E-2322B/ D	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
28163	1	3	N/A	4160V AC/ Breaker to CCSW Pump 2D (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR		Open	Closed	Yes	12E-2322B/ D	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	
28164	1	3	N/A	4160V AC/ Breaker to SW Pump 2B (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR		Closed	Closed	No	12E-2322B/ D	MOTIVE/CONTROL-N/A	S
28165	2	3	N/A	4160V AC/ Breaker to SW Pump 2/3 (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR		Open	Operbl.	Yes	12E-2322B/ D	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	
28166	1	3	D02-6724-11	4160V AC/ Breaker to Switchgear 24-1 (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR		Closed	Operbl.	Yes	12E-2344-3/ U	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	
28167	1	3	D02-6724-13	4160V AC/ Breaker to Unit Aux Trans 21 (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR		Open	Open	No	12E-2343/ AC	MOTIVE/CONTROL-N/A	S
28168	1	3	D02-6724-05	4160V AC/ Breaker to Res Aux Trans 22 (ROB-Swit. 24)	12E-2303-2/ L	Turbine	517' 6"	D-E/31-32	BR		Closed	Operbl.	Yes	12E-2343/ AC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	
28169	1	3	D02-6724-----S35	4160V AC/ Switchgear 24	12E-2303-2/ L	Turbine	534' 0"	D-E/31-32	S	5,6	Energy	Energy	Yes	12E-2322B/ D	MOTIVE-Diesel Generator S #2 CONTROL-125V DC TB Res Bus #2B-1	
29002	3	20	D02-0902-0004-P05	CONTROL PANELS/ Control Panel 902-4	N/A	Turbine	534' 0"	C. RM PNL 902-4	S	5,6	N/A	N/A	No	N/A	N/A	S
29003	3	20	D02-0902-0015-P05	CONTROL PANELS/ Control Panel 902-15	N/A	Turbine	534' 0"	C. RM PL 902-15	S	5,6	N/A	N/A	No	N/A	N/A	S
29004	3	20	D02-0902-0017-P05	CONTROL PANELS/ Control Panel 902-17	N/A	Turbine	534' 0"	C. RM PL 902-17	S	5,6	N/A	N/A	No	N/A	N/A	S
29005	3	20	D02-0902-0019-P05	CONTROL PANELS/ Control Panel 902-19	N/A	Turbine	534' 0"	C. RM PL 902-19	S	6	N/A	N/A	No	N/A	N/A	S
29006	3	20	D02-0902-0028-P05	CONTROL PANELS/ Control Panel 902-28	N/A	Turbine	517' 6"	AEER PNL 902-28	S	5,6	N/A	N/A	No	N/A	N/A	S
29007	3	20	D02-0902-0032-P05	CONTROL PANELS/ Control Panel 902-32	N/A	Turbine	517' 6"	AEER PNL 902-32	S	5,6	N/A	N/A	No	N/A	N/A	S
29008	3	20	D02-0902-0033-P05	CONTROL PANELS/ Control Panel 902-33	N/A	Turbine	517' 6"	AEER PNL 902-33	S	5,6	N/A	N/A	No	N/A	N/A	S
29009	3	20	D02-0902-0036-P05	CONTROL PANELS/ Control Panel 902-36	N/A	Turbine	534' 0"	C. RM PL 902-36	S	6	N/A	N/A	No	N/A	N/A	S
29010	3	20	D02-0902-0039-P05	CONTROL PANELS/ Control Panel 902-39	N/A	Turbine	517' 6"	AEER PNL 902-39	S	5,6	N/A	N/A	No	N/A	N/A	S
29012	3	20	D02-0902-0046-P05	CONTROL PANELS/ Control Panel 902-46	N/A	Turbine	517' 6"	AEER PNL 902-46	S	5,6	N/A	N/A	No	N/A	N/A	S
29013	3	20	D02-0902-0047-P05	CONTROL PANELS/ Control Panel 902-47	N/A	Turbine	517' 6"	AEER PNL 902-47	S	5,6	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
29016	3	18	D02-2202-0005-P05	INSTRUMENT RACKS/ Instrument Rack 2202-5	N/A	Reactor	545' 6"	E/39	S	5	N/A	N/A	No	N/A	N/A	S
29017	3	18	D02-2202-0006-P05	INSTRUMENT RACKS/ Instrument Rack 2202-6	N/A	Reactor	545' 6"	M/41	S	5	N/A	N/A	No	N/A	N/A	S
29018	3	18	D02-2202-0007-P05	INSTRUMENT RACKS/ Instrument Rack 2202-7	N/A	Reactor	517' 6"	K/39	S	5	N/A	N/A	No	N/A	N/A	S
29019	3	18	D02-2202-0008-P05	INSTRUMENT RACKS/ Instrument Rack 2202-8	N/A	Reactor	517' 6"	K/43	S	5	N/A	N/A	No	N/A	N/A	S
29020	3	18	D02-2202-0029-P05	INSTRUMENT RACKS/ Instrument Rack 2202-29	N/A	Reactor	476' 6"	HP RM2 N/45	S	5	N/A	N/A	No	N/A	N/A	S
29021	3	18	D02-2202-0036-P05	INSTRUMENT RACKS/ Instrument Rack 2202-36	N/A	Reactor	476' 6"	SW C.RM M/43	S	5	N/A	N/A	No	N/A	N/A	S
29022	3	18	D02-2202-0070AP05	INSTRUMENT RACKS/ Instrument Rack 2202-70A	N/A	Turbine	517' 6"	AEER 2202-70A	S	5,6	N/A	N/A	No	N/A	N/A	S
29023	3	18	D02-2202-0070BP05	INSTRUMENT RACKS/ Instrument Rack 2202-70B	N/A	Turbine	517' 6"	AEER 2202-70B	S	5,6	N/A	N/A	No	N/A	N/A	S
29024	3	18	D02-2202-0073AP05	INSTRUMENT RACKS/ Instrument Rack 2202-73A	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
29025	3	18	D02-2202-0073BP05	INSTRUMENT RACKS/ Instrument Rack 2202-73B	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
29027	3	18	D02-2252-0083-P05	INSTRUMENT RACKS/ Instrument Rack 2252-83	N/A	Reactor	545' 6"	N/39	S	5,6	N/A	N/A	No	N/A	N/A	S
29028	3	18	D02-2252-0084-P05	INSTRUMENT RACKS/ Instrument Rack 2252-84	N/A	Reactor	545' 6"	N/42	S	5	N/A	N/A	No	N/A	N/A	S
29029	3	20	D02-2252-0010-P05	CONTROL PANELS/ DG Metering and Relay Cabinet	N/A	Turbine	517' 6"	DG RM2 G-H/35	S	5	N/A	N/A	No	N/A	N/A	S
29030	3	20	D02-2252-0021-P05	CONTROL PANELS/ DG Excitation Cabinet	N/A	Turbine	517' 6"	DG RM2 G-H/35	S	5	N/A	N/A	No	N/A	N/A	S
29031	3	20	D02-7828-1-1--P06	DISTRIBUTION PANELS/ Distribution Panel 28-1-1	N/A	Reactor	517' 6"	L/38	S	5,6	Energy	Energy	No	N/A	N/A	S
29032	3	1	D02-7826-4----M05	480V AC/ MCC 26-4	N/A	Turbine	549' 0"	D-E/32	S		Energy	Energy	No	N/A	N/A	S
29033	3	1	D02-7829-7----M05	480V AC/ MCC 29-7	12E-2320/ AA	Reactor	517' 6"	N/42	S	5	Energy	Energy	No	N/A	N/A	S
29034	3	18	D02-2301-PS4---PS	HPCI/ Emergency Bearing Oil Pump Pressure Switch	N/A	Reactor	476' 6"	HP RM2 N/45	SR	5	N/A	N/A	No	N/A	N/A	S
31001	3	0	D03-0305-----H20	CRD/ Hydraulic Control Unit	M-365-2/ A/ C-1	Reactor	517' 6"	J-K/44-45,49-50	S	3	N/A	N/A	No	N/A	N/A	S
31002	3	I	D03-0301-0117-V15	CRD/ Insertion Line Vent Valve	M-365-2/ A/ C-1	Reactor	517' 6"	J-L/44-45,49-50	N/A	3	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
31003	3	I	D03-0305-0101-V15	CRD/ Insertion Line Valve	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	Open	Open	No	N/A	N/A	S
31004	3	7	D03-0305-0126-V05	CRD/ Accumulator Insertion Scram Valve (ROB-HCU)	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	B	2,3	Closed	Open	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31005	3	I	D03-0305-0115-V25	CRD/ Accumulator Supply Line Check Valve	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	Closed	Closed	No	N/A	N/A	S
31006	3	I	D03-0305-0107-V25	CRD/ Accumulator Supply Line Drain Valve	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	Closed	Closed	No	N/A	N/A	S
31007	3	21	D03-0305-0125-A10	CRD/ Insertion Accumulator (ROB-HCU)	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	B	3	N/A	N/A	No	N/A	N/A	S
31008	3	21	D03-0305-0128-A10	CRD/ Insertion Accumulator (ROB-HCU)	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	B	3	N/A	N/A	No	N/A	N/A	S
31009	3	I	D03-0305-0111-V15	CRD/ Insertion Accumulator Instrument Line Valve	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	Open	Open	No	N/A	N/A	S
31010	3	18	D03-0305-0129--LS	CRD/ Insertion Accumulator Level Switch	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	N/A	N/A	No	N/A	N/A	S
31011	3	18	D03-0305-0130--PS	CRD/ Insertion Accumulator Pressure Switch	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	N/A	N/A	No	N/A	N/A	S
31012	3	18	D03-0305-0131--PI	CRD/ Insertion Accumulator Pressure Indicator	M-365-2/ A/ C-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	N/A	N/A	No	N/A	N/A	S
31013	3	I	D03-0305-0138-V25	CRD/ Accumulator Supply Line Check Valve	M-365-2/ A/ D-1	Reactor	517' 6"	In Hydraulic CU	N/A	3	Closed	Closed	No	N/A	N/A	S
31014	3	88	D03-0305-0123-V15	CRD/ Hydraulic Control Unit Insertion Valve	M-365-2/ A/ D-1	Reactor	517' 6"	In Hydraulic CU	R	3	Closed	Closed	No	12E-3414/ V	MOTIVE/CONTROL-N/A	S
31015	3	88	D03-0305-0120-V15	CRD/ Hydraulic Control Unit Withdraw Valve	M-365-2/ A/ D-1	Reactor	517' 6"	In Hydraulic CU	R	3	Closed	Closed	No	12E-3414/ V	MOTIVE/CONTROL-N/A	S
31016	3	I	D03-0301-0119-V15	CRD/ Withdraw Line Vent Valve	M-365-2/ A/ C-2	Reactor	517' 6"	In Hydraulic CU	N/A	3	Open	Open	No	N/A	N/A	S
31017	3	I	D03-0305-0102-V15	CRD/ Withdraw Line Valve	M-365-2/ A/ C-2	Reactor	517' 6"	In Hydraulic CU	N/A	3	Open	Open	No	N/A	N/A	S
31018	3	7	D03-0305-0127-V05	CRD/ Withdraw to Scram Discharge Volume Valve (ROB-HCU)	M-365-2/ A/ D-2	Reactor	517' 6"	In Hydraulic CU	B	2,3	Closed	Open	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31019	3	88	D03-0305-0122-V15	CRD/ Hydraulic Control Unit Withdraw Valve	M-365-2/ A/ D-2	Reactor	517' 6"	In Hydraulic CU	R	3	Closed	Closed	No	12E-3414/ V	MOTIVE/CONTROL-N/A	S
31020	3	88	D03-0305-0121-V15	CRD/ Hydraulic Control Unit Insertion Valve	M-365-2/ A/ D-2	Reactor	517' 6"	In Hydraulic CU	R	3	Closed	Closed	No	12E-3414/ V	MOTIVE/CONTROL-N/A	S
31021	3	R	D03-0305-0114-V25	CRD/ HCU to SDV Line Check Valve	M-365-2/ A/ D-2	Reactor	517' 6"	In Hydraulic CU	N/A	3	Closed	Operbl.	No	N/A	N/A	S
31022	3	I	D03-0305-0112-V15	CRD/ HCU to SDV Line Valve	M-365-2/ A/ D-2	Reactor	517' 6"	In Hydraulic CU	N/A	3	Open	Open	No	N/A	N/A	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
31023	3	21	D03-0409-A----T05	CRD/ East Bank Scram Discharge Volume Tank	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	S	N/A	N/A	No	N/A	N/A	S
31024	3	21	D03-0409-B----T05	CRD/ West Bank Scram Discharge Volume Tank	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	S	N/A	N/A	No	N/A	N/A	S
31025	3	I	D03-0301-0141AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31026	3	I	D03-0301-0142AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31027	3	I	D03-0301-0144AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31028	3	I	D03-0301-0146AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31029	3	I	D03-0301-0143AV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Closed	Closed	No	N/A	N/A	S
31030	3	I	D03-0301-0145AV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Closed	Closed	No	N/A	N/A	S
31031	3	I	D03-0301-0147AV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Closed	Closed	No	N/A	N/A	S
31032	3	I	D03-0301-0154AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31033	3	I	D03-0301-0153AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31034	3	I	D03-0301-0149AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31035	3	I	D03-0301-0151AV15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Open	Open	No	N/A	N/A	S
31036	3	I	D03-0301-0148AV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Closed	Closed	No	N/A	N/A	S
31037	3	I	D03-0301-0150AV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Closed	Closed	No	N/A	N/A	S
31038	3	I	D03-0301-0152AV15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	Closed	Closed	No	N/A	N/A	S
31039	3	18	D03-0302-0082C-LS	CRD/ East Bank SDV Tank Level Switch	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	N/A	N/A	No	N/A	N/A	S
31040	3	18	D03-0302-0082F-LS	CRD/ East Bank SDV Tank Level Switch	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
31041	3	18	D03-0302-0082B-LT	CRD/ East Bank SDV Tank Level Transmitter	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A		N/A	N/A	No	N/A	N/A	S
31042	3	18	D03-0302-0082B-LS	CRD/ East Bank SDV Tank Level Switch	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A		N/A	N/A	No	N/A	N/A	S
31043	3	I	D03-0301-01418V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-8	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31044	3	I	D03-0301-01428V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31045	3	I	D03-0301-01448V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31046	3	I	D03-0301-01468V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31047	3	I	D03-0301-01438V15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-7	Reactor	517' 6"	J-L/44-45	N/A		Closed	Closed	No	N/A	N/A	S
31048	3	I	D03-0301-01458V15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-7	Reactor	517' 6"	J-L/44-45	N/A		Closed	Closed	No	N/A	N/A	S
31049	3	I	D03-0301-01478V15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-7	Reactor	517' 6"	J-L/44-45	N/A		Closed	Closed	No	N/A	N/A	S
31050	3	I	D03-0301-01548V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31051	3	I	D03-0301-01538V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31052	3	I	D03-0301-01498V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31053	3	I	D03-0301-01518V15	CRD/ East Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Open	Open	No	N/A	N/A	S
31054	3	I	D03-0301-01488V15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Closed	Closed	No	N/A	N/A	S
31055	3	I	D03-0301-01508V15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Closed	Closed	No	N/A	N/A	S
31056	3	I	D03-0301-01528V15	CRD/ East Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		Closed	Closed	No	N/A	N/A	S
31057	3	18	D03-0302-0082D-LS	CRD/ East Bank SDV Tank Level Switch	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		N/A	N/A	No	N/A	N/A	S
31058	3	18	D03-0302-0082A-LS	CRD/ East Bank SDV Tank Level Switch	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A		N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
31059	3	18	D03-0302-0082E-LT	CRD/ East Bank SDV Tank Level Transmitter	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A	N/A	N/A	No	N/A	N/A	S
31060	3	18	D03-0302-0082E-LS	CRD/ East Bank SDV Tank Level Switch	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	N/A	N/A	N/A	No	N/A	N/A	S
31061	3	I	D03-0301-0141CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31062	3	I	D03-0301-0142CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31063	3	I	D03-0301-0144CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31064	3	I	D03-0301-0146CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31065	3	I	D03-0301-0143CV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31066	3	I	D03-0301-0145CV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31067	3	I	D03-0301-0147CV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31068	3	I	D03-0301-0154CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31069	3	I	D03-0301-0153CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31070	3	I	D03-0301-0149CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31071	3	I	D03-0301-0151CV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31072	3	I	D03-0301-0148CV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31073	3	I	D03-0301-0150CV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31074	3	I	D03-0301-0152CV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31075	3	18	D03-0302-0082J-LS	CRD/ West Bank SDV Tank Level Switch	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	N/A	N/A	No	N/A	N/A	S
31076	3	18	D03-0302-0082G-LS	CRD/ West Bank SDV Tank Level Switch	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
31077	3	18	D03-0302-0082H-LT	CRD/ West Bank SDV Tank Level Transmitter	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	N/A	N/A	No	N/A	N/A	S
31078	3	18	D03-0302-0082H-LS	CRD/ West Bank SDV Tank Level Switch	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	N/A	N/A	No	N/A	N/A	S
31079	3	I	D03-0301-0141DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31080	3	I	D03-0301-0142DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-5	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31081	3	I	D03-0301-0144DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31082	3	I	D03-0301-0146DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ C-5	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31083	3	I	D03-0301-0143DV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31084	3	I	D03-0301-0145DV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-5	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31085	3	I	D03-0301-0147DV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ C-5	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31086	3	I	D03-0301-0154DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31087	3	I	D03-0301-0153DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31088	3	I	D03-0301-0149DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31089	3	I	D03-0301-0151DV15	CRD/ West Bank SDV Tank Instrument Line Valve	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A	Open	Open	No	N/A	N/A	S
31090	3	I	D03-0301-0148DV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31091	3	I	D03-0301-0150DV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31092	3	I	D03-0301-0152DV15	CRD/ West Bank SDV Tank Instrument Line Drain Valve	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A	Closed	Closed	No	N/A	N/A	S
31093	3	18	D03-0302-0082K-LS	CRD/ West Bank SDV Tank Level Switch	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	N/A	N/A	N/A	No	N/A	N/A	S
31094	3	18	D03-0302-0082M-LS	CRD/ West Bank SDV Tank Level Switch	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. --> Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
31095	3	18	D03-0302-0082L-LT	CRD/ West Bank SDV Tank Level Transmitter	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A		N/A	N/A	No	N/A	N/A	S
31096	3	18	D03-0302-0082L-LS	CRD/ West Bank SDV Tank Level Switch	M-365-2/ A/ B-5	Reactor	517' 6"	J-L/49-50	N/A		N/A	N/A	No	N/A	N/A	S
31097	3	7	D03-0302-0161AV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31098	3	88	D03-0302-0161AV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V AC Instrument Bus 903-50	S
31099	3	I	D03-0301-0163AV15	CRD/ East Bank SDV Vent Line Drain Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	N/A		Closed	Closed	No	N/A	N/A	S
31100	3	7	D03-0302-0160AV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31101	3	88	D03-0302-0160AV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V AC Instrument Bus 903-50	S
31102	3	7	D03-0302-0161BV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31103	3	88	D03-0302-0161BV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V AC Instrument Bus 903-50	S
31104	3	I	D03-0301-0163BV15	CRD/ West Bank SDV Vent Line Drain Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	N/A		Closed	Closed	No	N/A	N/A	S
31105	3	7	D03-0302-0160BV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31106	3	88	D03-0302-0160BV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V AC Instrument Bus 903-50	S
31107	3	7	D03-0302-0157AV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31108	3	88	D03-0302-0157AV27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V AC Instrument Bus 903-50	S
31109	3	I	D03-0301-0165AV15	CRD/ East Bank SDV Drain Line Drain Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	N/A		Closed	Closed	No	N/A	N/A	S
31110	3	7	D03-0302-0158AV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT NOTES		OP. ST.	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
31111	3	88	D03-0302-0158AV27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ B-8	Reactor	476' 6"	TORUS BAY 4	SR		Deenerg	Energ	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
31112	3	7	D03-0302-0157BV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31113	3	88	D03-0302-0157BV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	SR		Deenerg	Energ	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
31114	3	I	D03-0301-0165BV15	CRD/ West Bank SDV Drain Line Drain Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	N/A		Closed	Closed	No	N/A	N/A	S
31115	3	7	D03-0302-0158BV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
31116	3	88	D03-0302-0158BV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	SR		Deenerg	Energ	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
31117	3	88	D03-0399-0524BV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-365-2/ A/ D-3	Reactor	517' 6"	L/48	R		Deenerg	Deenerg	No	N/A	MOTIVE/CONTROL-N/A	S
31118	3	88	D03-0399-0524AV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-365-2/ A/ D-3	Reactor	517' 6"	L/48	R		Deenerg	Deenerg	No	N/A	MOTIVE/CONTROL-N/A	S
31119	3	I	D03-0399-0525-V25	CRD/ ARI ATWS Solenoid Valve Bypass Check Valve	M-365-2/ A/ D-3	Reactor	517' 6"	L/48	N/A		Closed	Closed	No	N/A	N/A	S
31120	3	88	D03-0399-0548AV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-365-2/ A/ E-2	Reactor	517' 6"	L/48	R		Deenerg	Deenerg	No	N/A	MOTIVE/CONTROL-N/A	S
31121	3	88	D03-0399-0548BV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-365-2/ A/ E-2	Reactor	517' 6"	L/48	R		Deenerg	Deenerg	No	N/A	MOTIVE/CONTROL-N/A	S
31122	3	88	D03-0399-0549AV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-365-2/ A/ C-2	Reactor	517' 6"	L/48	R		Deenerg	Deenerg	No	N/A	MOTIVE/CONTROL-N/A	S
31123	3	88	D03-0399-0549BV27	CRD/ Alternate Rod Insertion ATWS Solenoid Valve	M-365-2/ A/ C-2	Reactor	517' 6"	L/48	R		Deenerg	Deenerg	No	N/A	MOTIVE/CONTROL-N/A	S
31124	3	88	D03-0305-0117-V27	CRD/ Pilot Solenoid For HCU Scram Valves (ROB-HCU)	M-365-2/ A/ D-1	Reactor	517' 6"	In Hydraulic CU BR	2,3		Energ	Deenerg	No	12E-3465-1/ X	MOTIVE/CONTROL-N/A	S
31125	3	88	D03-0305-0118-V27	CRD/ Pilot Solenoid For HCU Scram Valves (ROB-HCU)	M-365-2/ A/ D-1	Reactor	517' 6"	In Hydraulic CU BR	2,3		Energ	Deenerg	No	12E-3465-1/ X	MOTIVE/CONTROL-N/A	S
31126	3	88	D03-0302-0020AV25	CRD/ Scram Dump Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Energ	Deenerg	No	12E-3465-1/ X	MOTIVE/CONTROL-N/A	S
31127	3	88	D03-0302-0020BV27	CRD/ Scram Dump Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Energ	Deenerg	No	12E-3465-1/ X	MOTIVE/CONTROL-N/A	S
31128	3	88	D03-0302-0019AV27	CRD/ Backup Scram Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Deenerg	Energ	Yes	12E-3467-3/ AC	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
31129	3	88	D03-0302-0019BV27	CRD/ Backup Scram Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR	Deenerg	Energy	Yes	12E-3467-3/ AC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
31130	3	I	D03-0301-0122-V25	CRD/ Backup Scram Solenoid Valve Bypass Check Valve	M-365-2/ A/ E-4	Reactor	517' 6"	L/48	N/A	Closed	Closed	No	N/A	N/A	S
31131	3	20	D03-0750-0001A-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-903-36)	12E-3452/ Q/ C-7	Turbine	534' 0"	C. RM PL 903-36 BR		Operbl.	Operbl.	Yes	12E-3452/ P	MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #3A	S
31132	3	20	D03-0750-0001B-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-903-36)	12E-3452/ Q/ C-7	Turbine	534' 0"	C. RM PL 903-36 BR		Operbl.	Operbl.	Yes	12E-3452/ P	MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #38	S
31133	3	20	D03-0750-0001C-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-903-36)	12E-3452/ Q/ C-7	Turbine	534' 0"	C. RM PL 903-36 BR		Operbl.	Operbl.	Yes	12E-3452/ P	MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #3A	S
31134	3	20	D03-0750-0001D-RY	NEUTRON MONITORING/ Source Range Monitor (ROB-903-36)	12E-3452/ Q/ C-7	Turbine	534' 0"	C. RM PL 903-36 BR		Operbl.	Operbl.	Yes	12E-3452/ P	MOTIVE-N/A CONTROL-24/48V DC Distribution Panel #38	S
31135	3	20	D03-0751-0000A-RE	NEUTRON MONITORING/ Source Range Detector	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31136	3	20	D03-0751-0000B-RE	NEUTRON MONITORING/ Source Range Detector	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31137	3	20	D03-0751-0000C-RE	NEUTRON MONITORING/ Source Range Detector	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31138	3	20	D03-0751-0000D-RE	NEUTRON MONITORING/ Source Range Detector	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31139	3	20	D03-0752-0000A-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31140	3	20	D03-0752-0000B-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31141	3	20	D03-0752-0000C-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
31142	3	20	D03-0752-0000D-RY	NEUTRON MONITORING/ Source Range Pulse Preamplifier	12E-3452/ Q/ C-7	Reactor	515' 5"	DRYWELL	N/A	Operbl.	Operbl.	No	N/A	N/A	S
32001	1	7	D03-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
32002	1	7	D03-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
32003	1	7	D03-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST.	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
32004	1	7	D03-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32005	1	7	D03-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32006	1	7	D03-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32007	1	7	D03-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32008	1	7	D03-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32009	1	88	D03-0203-0003AV26	ADS/ Target Rock Valve	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #3B-1	S
32010	1	88	D03-0203-0003BV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #3B-1	S
32011	1	88	D03-0203-0003EV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-6	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #3B-1	S
32012	1	88	D03-0203-0003CV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ D-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #3B-1	S
32013	1	88	D03-0203-0003DV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ B-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #3B-1	S
32014	1	I	D03-4799-0427-V15	INSTRUMENT AIR/ Target Rock Accumulator Drain Valve	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32015	1	21	D03-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
32016	1	1	D03-4799-0281AV25	INSTRUMENT AIR/ Target Rock Accumulator Check Valve	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
32017	1	18	D03-0261-0037A-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
32018	1	18	D03-0261-0037B-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
32019	1	18	D03-0261-0037C-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
32020	1	18	D03-0261-0014A-TE	ADS/ Target Rock Temperature Element	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
32021	1	18	D03-0261-0014B-TE	ADS/ Electromatic Relief Valve Temperature Element	M-345-1/ AH/ D-6	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32022	1	18	D03-0261-0014E-TE	ADS/ Electromatic Relief Valve Temperature Element	M-345-1/ AH/ E-5	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32023	1	18	D03-0261-0014C-TE	ADS/ Electromatic Relief Valve Temperature Element	M-345-1/ AH/ C-6	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32024	1	18	D03-0261-0014D-TE	ADS/ Electromatic Relief Valve Temperature Element	M-345-1/ AH/ B-6	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32025	1	R	D03-0220-0105AV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32026	1	R	D03-0220-0105BV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32027	1	R	D03-0220-0105CV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32028	1	R	D03-0220-0105DV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32029	1	R	D03-0220-0105EV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32030	1	R	D03-0229-0068AV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32031	1	R	D03-0229-0068BV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32032	1	R	D03-0229-0068CV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32033	1	R	D03-0229-0068DV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32034	1	R	D03-0229-0068EV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Operbl.	No	N/A	N/A	S
32035	1	18	D03-0261-0001A-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ F-4	Reactor	515' 5"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32036	1	18	D03-0261-0001B-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32037	1	18	D03-0261-0001C-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32038	1	18	D03-0261-0001D-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32039	1	I	D03-0220-0011AV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32040	1	I	D03-0220-0012AV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32041	1	I	D03-0220-0011BV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32042	1	I	D03-0220-0012BV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSSEL.DBF / 06-06-96 / 14:56:38
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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
32043	1	I	D03-0220-0011CV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32044	1	I	D03-0220-0012CV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32045	1	I	D03-0220-0011DV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32046	1	I	D03-0220-0012DV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NM/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
32047	1	R	D03-0220-0017AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32048	1	R	D03-0220-0018AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32049	1	R	D03-0220-0017BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32050	1	R	D03-0220-0018BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32051	1	R	D03-0220-0017CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32052	1	R	D03-0220-0018CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32053	1	R	D03-0220-0017DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32054	1	R	D03-0220-0018DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NM/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
32055	1	7	D03-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
32056	1	88	D03-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
32057	1	88	D03-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
32058	1	7	D03-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
32059	1	88	D03-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
32060	1	88	D03-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST.	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	SYS. & SUPPORTING COMPONENTS	REQ'D INTERCONNECTIONS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
32061	1	7	D03-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
32062	1	88	D03-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR	Energy	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
32063	1	88	D03-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR	Energy	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
32064	1	7	D03-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
32065	1	88	D03-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR	Energy	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
32066	1	88	D03-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR	Energy	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
32067	1	21	D03-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
32068	1	21	D03-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
32069	1	21	D03-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
32070	1	21	D03-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
32071	1	I	D03-0220-0084AV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
32072	1	I	D03-0220-0084BV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
32073	1	I	D03-0220-0084CV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
32074	1	I	D03-0220-0084DV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
32075	1	8A	D03-0220-0001-V20	MAIN STEAM/ Isolation Valve Line Drain Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	R	Closed	Closed	No	N/A	N/A	S
32076	2	7	D03-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32077	2	18	D03-0261-0013A-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32078	2	7	D03-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. Normal	ST. Desired	--> POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
32079	2	18	D03-0261-0013B-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32080	2	7	D03-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32081	2	18	D03-0261-0013C-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32082	2	7	D03-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32083	2	18	D03-0261-0013D-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32084	2	7	D03-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32085	2	18	D03-0261-0013E-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32086	2	7	D03-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32087	2	18	D03-0261-0013F-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32088	2	7	D03-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32089	2	18	D03-0261-0013G-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32090	2	7	D03-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	S	Closed	Operbl.	No	N/A	N/A	S
32091	2	18	D03-0261-0013H-TE	ADS/ Overpressure Relief Valve Temperature Element	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32092	3	I	D03-0263-0013BM03	NUCLEAR BOILER/ Instrument Line Condensing Chamber	M-357-1/ BA/ E-4	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
32093	3	I	D03-0263-0218BV15	NUCLEAR BOILER/ Instrument Line Valve	M-357-1/ BA/ C-4	Reactor	545' 6"	K/48-49	N/A	Open	Open	No	N/A	N/A	S
32094	3	R	D03-0263-0219BV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-357-1/ BA/ C-4	Reactor	545' 6"	K/48-49	N/A	Open	Operbl.	No	N/A	N/A	S
32095	3	18	D03-0263-0152B-PT	NUCLEAR BOILER/ Reactor Pressure Transmitt. (ROB-2203-6)	M-357-1/ BA/ D-3	Reactor	545' 6"	K/48-49	B	N/A	N/A	No	N/A	N/A	S
32096	3	18	D03-0640-0027--UR	REACTOR LEVEL CONTROL/ Pressure Recorder (ROB-903-5)	M-357-1/ BA/ C-1	Turbine	534' 0"	C. RM PNL 903-5 B		On	On	Yes	12E-3418-1/ AK	MOTIVE-N/A CONTROL-120V S AC Essential Bus 903-49	

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
33001	1	I	D00-2399-0106-V15	HPCI/ Condensate Tank Supply Line Drain Valve	M-35-1/ CH/ F-3	N/A	Grade	K/35	N/A	Closed	Closed	No	N/A	N/A	S
33002	1	I	D00-2301-0012-V15	HPCI/ Condensate Tank Crosstie Line Valve	M-35-1/ CH/ F-3	N/A	Grade	K/35	N/A	Closed	Closed	No	N/A	N/A	S
33003	1	8A	D03-2301-0006-V20	HPCI/ Condensate Tank Supply to HPCI Pump Valve	M-374/ BJ/ F-2	Reactor	476' 6"	HP RM3 N/46	SR 1	Open	Operbl.	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 3B-1	S
33004	1	R	D03-2301-0020-V25	HPCI/ HPCI Pump Suction Line Check Valve	M-374/ BJ/ F-1	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
33005	1	I	D03-2301-0056-V15	HPCI/ Suppression Pool Supply Line Valve	M-374/ BJ/ E-9	Reactor	476' 6"	TORUS BSMT 15	N/A	Open	Open	No	N/A	N/A	S
33006	1	I	D03-2301-0093-V15	HPCI/ Suppression Pool Supply Line Drain Valve	M-374/ BJ/ E-9	Reactor	476' 6"	TORUS BSMT 15	N/A	Closed	Closed	No	N/A	N/A	S
33007	1	8A	D03-2301-0036-V20	HPCI/ Suppression Pool Suction Line Valve	M-374/ BJ/ E-9	Reactor	476' 6"	TORUS BSMT 15	SR 1	Closed	Operbl.	Yes	12E-3530/ Q	MOTIVE-250V DC MCC Bus #38 CONTROL-Bus #38, 125V DC #3A(B)-1, 24/48V DC #2(3)B	S
33008	1	I	D03-2301-0037-V15	HPCI/ Suppression Pool Supply Line Test Valve	M-374/ BJ/ E-8	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
33009	1	R	D03-2301-0039-V25	HPCI/ Suppression Pool Suction Line Check Valve	M-374/ BJ/ E-8	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
33010	1	I	D03-2399-0015-V15	HPCI/ Suppression Pool Suction Line Drain Valve	M-374/ BJ/ E-7	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
33011	1	8A	D03-2301-0035-V20	HPCI/ Suppression Pool Suction Line Valve	M-374/ BJ/ E-1	Reactor	476' 6"	HP RM3 N/46	SR 1	Closed	Operbl.	Yes	12E-3530/ Q	MOTIVE-250V DC MCC Bus #38 CONTROL-Bus #38, 125V DC #3A(B)-1, 24/48V DC #2(3)B	S
33012	1	18	D03-2381-----PI	HPCI/ HPCI Pump Inlet Local Pressure Indicator	M-374/ BJ/ A-3	Reactor	476' 6"	HP RM3 N/46-47	N/A	N/A	N/A	No	N/A	N/A	S
33013	1	18	D03-2382-----PT	HPCI/ HPCI Pump Inlet Pressure Transmitter	M-374/ BJ/ A-3	Reactor	476' 6"	HP RM3 N/46-47	N/A	N/A	N/A	No	N/A	N/A	S
33014	1	18	D03-2340-0007--PI	HPCI/ HPCI Pump Inlet Pressure Indicator	M-374/ BJ/ A-3	Reactor	476' 6"	HP RM3 N/46-47	N/A	N/A	N/A	No	N/A	N/A	S
33015	1	I	D03-2301-0023-V26	HPCI/ HPCI Pump Suction Relief Valve	M-374/ BJ/ A-3	Reactor	476' 6"	HP RM3 N/46-47	N/A	Closed	Closed	No	N/A	N/A	S
33016	1	18	D03-2360-----PS	HPCI/ HPCI Pump Inlet Pressure Switch	M-374/ BJ/ A-3	Reactor	476' 6"	HP RM3 N/46-47	N/A	N/A	N/A	No	N/A	N/A	S
33017	1	5	D03-2302-----P30	HPCI/ HPCI Pump	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	S	Off	On	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33018	1	I	D03-2301-0083-V15	HPCI/ HPCI Booster Pump Vent Valve	M-374/ BJ/ A-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33019	1	I	D03-2301-0084-V15	HPCI/ HPCI Main Pump Vent Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33020	1	I	D03-2301-0099-V15	HPCI/ HPCI Booster Pump Vent Valve	M-374/ BJ/ A-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33021	1	I	D03-2301-0100-V15	HPCI/ HPCI Booster Pump Vent Valve	M-374/ BJ/ A-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33022	1	I	D03-2301-0101-V15	HPCI/ HPCI Main Pump Vent Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33023	1	I	D03-2399-0011-V15	HPCI/ HPCI Main Pump Drain Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33024	1	I	D03-2301-0103-V15	HPCI/ HPCI Main Pump Drain Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33025	1	5	D03-2301-----T20	HPCI/ HPCI Turbine	M-374/ BJ/ A-6	Reactor	476' 6"	HP RM3 N/46-47	S	5	Off	On	No	N/A	N/A	S
33026	1	6	D03-2301-AOP--P30	HPCI/ Turbine Auxiliary Oil Pump (ROB-HPCI Turbine)	N/A	Reactor	476' 6"	HP RM3 N/46-47	BR		Off	On	Yes	12E-3532/ S	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 38-1	S
33027	1	6	D03-2301-EBOP-P30	HPCI/ Turbine Emergency Bearing Oil Pump (ROB-Turbine)	N/A	Reactor	476' 6"	HP RM3 N/46-47	BR		Off	On	Yes	12E-3532/ S	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 38-1	S
33028	1	21	N/A	HPCI/ Turbine Oil Tank Cooling Heat Exch. (ROB-Turbine)	N/A	Reactor	476' 6"	HP RM3 N/46-47	B		N/A	N/A	No	N/A	N/A	S
33029	1	5	N/A	HPCI/ Main Oil Pump (ROB-HPCI Pump)	N/A	Reactor	476' 6"	HP RM3 N/46-47	B		Off	On	No	N/A	N/A	S
33030	1	I	D03-2380-R-----V15	HPCI/ HPCI Turbine Pressure Switch High Line Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33031	1	18	D03-2380-----PSH	HPCI/ HPCI Turbine Pressure Switch High	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		N/A	N/A	No	N/A	N/A	S
33032	1	I	D03-2399-0013-V15	HPCI/ HPCI Pump Discharge Line Drain Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33033	1	I	D03-2301-0096-V15	HPCI/ HPCI Pump Discharge Line Vent Valve	M-374/ BJ/ C-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33034	1	18	D03-2357-----PI	HPCI/ HPCI Pump Discharge Line Pressure Indicator	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33035	1	18	D03-2359-----PT	HPCI/ Pump Discharge Pressure Transmitter (ROB-2203-29)	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/46	B		N/A	N/A	No	N/A	N/A	S
33036	1	18	D03-2340-0002--PI	HPCI/ Pump Discharge Pressure Indicator (ROB-903-3)	M-374/ BJ/ D-5	Turbine	534' 0"	C. RM PNL 903-3	BR		Operbl.	Operbl.	Yes	12E-3499/ W	MOTIVE-N/A CONTROL-120V S AC Essential Bus 903-49	S
33037	1	18	D03-2356-----FE	HPCI/ HPCI Pump Discharge Line Flow Element	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
33038	1	18	D03-2358-----FT	HPCI/ HPCI Pump Discharge Flow Transmitter	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33039	1	18	D03-2354-----FS	HPCI/ HPCI Pump Discharge Flow Switch	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33040	1	18	D03-2340-0001-FIC	HPCI/ HPCI Pump Discharge Flow Controller	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33041	1	8A	D03-2301-0009-V20	HPCI/ HPCI Pump Injection Line Valve	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/45	R	Open	Open	No	12E-3529/ AE	MOTIVE/CONTROL-N/A	S
33042	1	I	D03-2301-0092-V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-374/ BJ/ D-5	Reactor	476' 6"	HP RM3 N/45	N/A	Closed	Closed	No	N/A	N/A	S
33043	1	I	D03-2304A-0500V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-374/ BJ/ D-5	Reactor	476' 6"	TORUS BAY 16	N/A	Closed	Closed	No	N/A	N/A	S
33044	1	I	D03-2354-0502-V15	HPCI/ ECCS Fill Line Isolation Valve	M-374/ BJ/ D-5	Reactor	476' 6"	SE C.RM M/45	N/A	Closed	Closed	No	N/A	N/A	S
33045	1	I	D03-2399-0053-V15	HPCI/ HPCI Pump Injection Line Drain Valve	M-374/ BJ/ D-6	Reactor	476' 6"	TORUS BSMT 4	N/A	Closed	Closed	No	N/A	N/A	S
33046	1	18	D03-2341-0003--TE	HPCI/ HPCI Pump Injection Line Temperature Element	M-374/ BJ/ D-6	Turbine	517' 6"	X AREA G/47	N/A	N/A	N/A	No	N/A	N/A	S
33047	1	I	D03-2301-0087-V15	HPCI/ HPCI Pump Injection Line Vent Valve	M-374/ BJ/ D-6	Turbine	517' 6"	X AREA G/47	N/A	Closed	Closed	No	N/A	N/A	S
33048	1	8A	D03-2301-0008-V20	HPCI/ HPCI Pump Injection Line Valve	M-374/ BJ/ D-6	Turbine	517' 6"	X AREA G/46	SR	Closed	Open	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 3B-1	S
33049	1	R	D03-2301-0007-V25	HPCI/ HPCI Pump Injection Line Check Valve	M-374/ BJ/ D-6	Turbine	517' 6"	X AREA G/46	N/A	Closed	Operbl.	No	N/A	N/A	S
33050	1	I	D03-3299-0054-V15	FEEDWATER/ Reactor Feedwater Injection Line Drain Valve	M-347/ AX/ E-2	Turbine	517' 6"	X AREA G/46	N/A	Closed	Closed	No	N/A	N/A	S
33051	1	R	D03-0220-0059-V25	FEEDWATER/ Reactor Feedwater Injection Line Check Valve	M-347/ AX/ F-2	Turbine	517' 6"	X AREA G/46	N/A	Closed	Closed	No	N/A	N/A	S
33052	1	I	D03-0220-0086-V15	FEEDWATER/ HPCI Injection to Reactor Line Drain Valve	M-347/ AX/ F-3	Reactor	517' 6"	X AREA G/46	N/A	Closed	Closed	No	N/A	N/A	S
33053	1	R	D03-0220-0062BV25	FEEDWATER/ HPCI Injection to Reactor Line Check Valve	M-347/ AX/ F-3	Reactor	517' 6"	X AREA G/46	N/A	Closed	Operbl.	No	N/A	N/A	S
33054	1	I	D03-3299-0053-V15	FEEDWATER/ HPCI Injection to Reactor Line Drain Valve	M-347/ AX/ F-3	Reactor	517' 6"	X AREA G/46	N/A	Closed	Closed	No	N/A	N/A	S
33055	1	I	D03-0220-01038V15	FEEDWATER/ HPCI Injection to Reactor Line Test Valve	M-347/ AX/ F-3	Reactor	517' 6"	X AREA G/46	N/A	Closed	Closed	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33056	1	R	D03-0220-0058BV25	FEEDWATER/ HPCI Injection to Reactor Line Check Valve	M-347/ AX/ F-4	Reactor	517' 6"	X AREA G/46	N/A		Closed	Operbl.	No	N/A	N/A	S
33057	1	I	D03-3204-0500BV15	FEEDWATER/ HPCI Injection to Reactor Line Drain Valve	M-347/ AX/ F-4	Reactor	517' 6"	X AREA G/46	N/A		Closed	Closed	No	N/A	N/A	S
33058	1	I	D03-0220-0057BV15	FEEDWATER/ HPCI Injection to Reactor Line Check Valve	M-347/ AX/ F-4	Reactor	517' 6"	X AREA G/46	N/A		Open	Open	No	N/A	N/A	S
33059	1	I	D03-2301-0058-M01	HPCI/ HPCI Pump Test Line Restricting Orifice	M-374/ BJ/ C-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33060	1	I	D03-2301-0089-V15	HPCI/ HPCI Pump Test Line Drain Valve	M-374/ BJ/ C-6	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
33061	1	8A	D03-2301-0014-V20	HPCI/ HPCI Pump Test Line Valve	M-374/ BJ/ C-6	Reactor	476' 6"	HP RM3 N/46	SR		Closed	Operbl.	Yes	12E-3530/ Q	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 3B-1	S
33062	1	R	D03-2301-0040-V25	HPCI/ HPCI Pump Test Line Check Valve	M-374/ BJ/ C-6	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Operbl.	No	N/A	N/A	S
33063	1	8A	D03-2301-0010-V20	HPCI/ Condensate Storage Tank Return Line Valve	M-374/ BJ/ E-5	Reactor	476' 6"	HP RM3 N/46-47	R		Closed	Closed	No	12E-3529/ AE	MOTIVE/CONTROL-N/A	S
33064	1	I	D03-2399-0060-V15	HPCI/ Condenser Hotwell Pump Suction Line Valve	M-374/ BJ/ E-2	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33065	1	5	D03-2301-CONDPP	HPCI/ Condenser Hotwell Condensate Pump	M-374/ BJ/ E-2	Reactor	476' 6"	HP RM3 N/46-47	SR		Off	Operbl.	Yes	12E-3532/ S	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 3B-1	S
33066	1	18	D03-2392-0001--PI	HPCI/ Hotwell Pump Discharge Line Pressure Indicator	M-374/ BJ/ D-3	Reactor	476' 6"	HP RM3 N/46-47	N/A		N/A	N/A	No	N/A	N/A	S
33067	1	I	D03-2399-0081-V15	HPCI/ Condenser Hotwell Pump Discharge Drain Valve	M-374/ BJ/ D-3	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33068	1	I	D03-2399-0079-V16	HPCI/ Condenser Hotwell Pump Discharge Pres. Valve	M-374/ BJ/ D-3	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33069	1	R	D03-2301-0076-V25	HPCI/ Condenser Hotwell Pump Discharge Line Check Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Operbl.	No	N/A	N/A	S
33070	1	I	D03-2301-0082-V15	HPCI/ Condenser Hotwell Pump Discharge Line Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33071	1	I	D03-2301-0102-V15	HPCI/ HPCI Pump Discharge Line Drain Valve	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33072	1	R	D03-2301-0050AV25	HPCI/ HPCI Pump Discharge Line Check Valve	M-374/ BJ/ C-5	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Operbl.	No	N/A	N/A	S

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Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST.	POWER REQ'D	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	Normal	Desired	(14)	(15)	(16)	(17)
33073	1	R	D03-2301-0046-V10	HPCI/ Gland Seal Condenser Suction Line Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Operbl.	No	N/A	N/A	S
33074	1	I	D03-2399-0094-V15	HPCI/ Gland Seal Condenser Test Line Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33075	1	I	D03-2301-0053-V26	HPCI/ Gland Seal Condenser Inlet Relief Valve	M-374/ BJ/ C-3	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33076	1	21	D03-2320-GSC--H15	HPCI/ Gland Seal Condenser	M-374/ BJ/ C-2	Reactor	476' 6"	HP RM3 N/46-47	S		N/A	N/A	No	N/A	N/A	S
33077	1	10	D03-LOC	HPCI/ Lube Oil Cooler	M-374/ BJ/ C-2	Reactor	476' 6"	HP RM3 N/46-47	S		N/A	N/A	No	N/A	N/A	S
33078	1	I	D03-2314-0500-V15	HPCI/ Lube Oil Cooler Discharge Line Valve	M-374/ BJ/ C-2	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33079	1	R	D03-2301-0075-V25	HPCI/ Gland Seal Condenser Return Line Check Valve	M-374/ BJ/ B-4	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Operbl.	No	N/A	N/A	S
33080	1	9	D03-2320-GSCE-F05	HPCI/ Gland Seal Condenser Exhaust Fan	M-374/ BJ/ B-2	Reactor	476' 6"	HP RM3 N/46	SR		Off	On	Yes	12E-3532/ S	MOTIVE-250V DC MCC Bus #3A, 125V DC Bus #3A-1, 3B-1	S
33081	1	I	D03-2320-0500-V15	HPCI/ Gland Seal Exhauster Discharge Line Valve	M-374/ BJ/ B-3	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
33082	1	I	D03-2320-0502-V15	HPCI/ Gland Seal Exhauster Drain Line Valve	M-374/ BJ/ B-2	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
33083	1	I	D03-2320-0501-V15	HPCI/ Gland Seal Exhauster Drain Line Valve	M-374/ BJ/ B-3	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
33084	1	I	D03-2320-0504-V15	HPCI/ Gland Seal Exhauster Drain Line Valve	M-374/ BJ/ B-2	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
33085	1	8A	D03-2301-0049-V20	HPCI/ HPCI Pump Condensate Return Line Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46	R		Closed	Closed	No	12E-3530/ Q	MOTIVE/CONTROL-N/A	S
33086	1	8A	D03-2301-0048-V20	HPCI/ HPCI Pump Condensate Return Line Valve	M-374/ BJ/ B-4	Reactor	476' 6"	HP RM3 N/46	R		Open	Open	No	12E-3530/ Q	MOTIVE/CONTROL-N/A	S
33087	1	I	D03-2301-0085-V15	HPCI/ HPCI Pump Condensate Return Line Drain Valve	M-374/ BJ/ A-4	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
33088	1	I	D03-2301-0080-V15	HPCI/ Turbine Cooling Pump Suction Line Valve	M-374/ BJ/ D-4	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
33089	1	5	D03-2301-0057-P30	HPCI/ HPCI Turbine Cooling Water Pump	M-374/ BJ/ D-4	Reactor	476' 6"	HP RM3 N/46	SR		Off	On	Yes	12E-3531/ X	MOTIVE/CONTROL-MCC 39-1	S
33090	1	I	D03-2399-0096-V15	HPCI/ Turbine Cooling Pump Drain Line Valve	M-374/ BJ/ D-4	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33091	1	R	D03-2301-0051-V25	HPCI/ Turbine Cooling Pump Discharge Line Check Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Operbl.	No	N/A	N/A	S
33092	1	I	D03-2301-0081-V15	HPCI/ Turbine Cooling Pump Discharge Line Valve	M-374/ BJ/ C-4	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
33093	1	8A	D03-2301-0004-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ C-9	Reactor	576' 7"	DRYWELL	R		Open	Open	No	12E-3529/ AE	MOTIVE/CONTROL-N/A	S
33094	1	I	D03-2399-0016-V15	HPCI/ Turbine Steam Line Test Valve.	M-374/ BJ/ B-10	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
33095	1	8A	D03-2301-0005-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ B-10	Reactor	476' 6"	TORUS BAY 13	R		Open	Open	No	12E-3529/ AE	MOTIVE/CONTROL-N/A	S
33096	1	I	D03-2366-R----V15	HPCI/ Turbine Steam Line Pressure Indicator Line Valve	M-374/ BJ/ A-10	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
33097	1	18	D03-2363-----PI	HPCI/ Turbine Steam Line Pressure Indicator	M-374/ BJ/ A-10	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33098	1	18	D03-2364-----PT	HPCI/ Turbine Steam Line Pressure Transmitter	M-374/ BJ/ A-10	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33099	1	18	D03-2340-0004--PI	HPCI/ Turbine Steam Line Pressure Indicator	M-374/ BJ/ A-10	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33100	1	8A	D03-2301-0003-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	SR		Closed	Open	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 3B-1	S
33101	1	I	D03-2399-0017-V15	HPCI/ Turbine Exhaust Line Drain Valve	M-374/ BJ/ A-6	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
33102	1	18	D03-2367-----PI	HPCI/ Turbine Exhaust Line Pressure Indicator	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33103	1	18	D03-2366-----PT	HPCI/ Turbine Exhaust Line Pressure Transmitter	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33104	1	18	D03-2340-0005--PI	HPCI/ Turbine Exhaust Line Pressure Indicator	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33105	1	18	D03-2368-A-----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33106	1	18	D03-2368-B-----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
33107	1	R	D03-2301-0045-V25	HPCI/ Turbine Exhaust Line Check Valve	M-374/ BJ/ B-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S
33108	1	I	D03-2301-0041AV15	HPCI/ Turbine Exhaust Line Drain Valve	M-374/ BJ/ B-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Closed	No	N/A	N/A	S
33109	1	I	D03-2301-0074-V18	HPCI/ Turbine Exhaust Line Valve	M-374/ BJ/ C-7	Reactor	476' 6"	TORUS BAY 2	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN CLASS	EQUIP MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
33110	1	R	D03-2399-0076AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Operbl.	No	N/A	N/A	S
33111	1	R	D03-2399-0076BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Operbl.	No	N/A	N/A	S
33112	1	R	D03-2399-0077AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Operbl.	No	N/A	N/A	S
33113	1	R	D03-2399-0077BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A	Closed	Operbl.	No	N/A	N/A	S
33114	1	I	D03-2365-H----V15	HPCI/ Turbine Steam Drain Instrument Line Root Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S
33115	1	18	D03-2365-----LSH	HPCI/ Turbine Steam Drain Line Level Switch High	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33116	1	I	D03-2301-0054-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S
33117	1	I	D03-2301-0001-M01	HPCI/ Turbine Steam Drain Line Trap	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33118	1	I	D03-2301-0055-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S
33119	1	R	D03-2301-0029-V05	HPCI/ Turbine Steam Drain Line Valve	M-374/ BJ/ B-10	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Closed	No	N/A	N/A	S
33120	1	R	D03-2301-0028-V05	HPCI/ Turbine Steam Drain Line Valve	M-374/ BJ/ B-8	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Open	No	N/A	N/A	S
33121	1	I	D03-2301-0063BM01	HPCI/ Turbine Steam Drain Line Restricting Orifice	M-374/ BJ/ B-8	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33122	1	I	D03-2369-H----V15	HPCI/ Turbine Exhaust Drain Instrument Line Root Valve	M-374/ BJ/ B-7	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S
33123	1	18	D03-2369-----LSH	HPCI/ Turbine Exhaust Drain Line Level Switch High	M-374/ BJ/ B-7	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33124	1	I	D03-2301-0050-V15	HPCI/ Turbine Exhaust Steam Tie Line Valve	M-374/ BJ/ B-7	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
33125	1	I	D03-2301-0033-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ C-7	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S
33126	1	I	D03-2301-0002-M01	HPCI/ Turbine Exhaust Drain Line Trap	M-374/ BJ/ C-7	Reactor	476' 6"	HP RM3 N/46	N/A	N/A	N/A	No	N/A	N/A	S
33127	1	I	D03-2301-0047-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ C-7	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
33128	1	R	D03-2301-0034-V25	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ D-7	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Operbl.	No	N/A	N/A	S
33129	1	I	D03-2301-0041BV15	HPCI/ Turbine Exhaust Drain Line Drain Valve	M-374/ BJ/ D-7	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
33130	1	I	D03-2301-0071-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ D-7	Reactor	476' 6"	HP RM3 N/46	N/A	Open	Open	No	N/A	N/A	S
33131	1	10	D03-5747-----H15	HPCI/ HPCI Emergency Air Cooler	M-355/ PC/ D-6	Reactor	476' 6"	HP RM3 N/46	SR	Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 39-1 S COOLING-Service Water System	S
33132	1	I	D00-3340-0500-V15	CONDENSATE/ Condensate Storage Tank Test Line Valve	M-35-1/ CH/ F-4	N/A	Grade	K/35	N/A	Open	Open	No	N/A	N/A	S
33133	1	18	D00-2350-A-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1, 3B-1	S
33134	1	18	D00-2350-C-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1, 3B-1	S
33135	1	I	D00-3389-0500-V15	CONDENSATE/ Condensate Storage Tank Test Line Valve	M-35-1/ CH/ F-4	N/A	Grade	K/35	N/A	Open	Open	No	N/A	N/A	S
33136	1	18	D00-2350-B-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1, 3B-1	S
33137	1	18	D00-2350-D-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR 5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1, 3B-1	S
33138	1	I	D02-1699-0016-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-356/ BE/ F-2	Reactor	476' 6"	SW C.RM M/49	N/A	Open	Open	No	N/A	N/A	S
33139	1	18	D03-2351-A-----LS	HPCI/ Suppression Pool Water Level Switch	M-374/ BJ/ D-7	Reactor	476' 6"	SW C.RM M/49	SR 5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	S
33140	1	18	D03-2351-B-----LS	HPCI/ Suppression Pool Water Level Switch	M-374/ BJ/ D-7	Reactor	476' 6"	SW C.RM M/49	SR 5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	S
33141	1	I	D02-1699-0009-V15	PRESSURE SUPPRESSION/ Torus Level Switch Line Valve	M-356/ BE/ F-2	Reactor	476' 6"	SW C.RM M/49	N/A	Open	Open	No	N/A	N/A	S
33142	1	I	D02-1699-0075-V15	PRESSURE SUPPRESSION/ Torus Level Switch Drain Valve	M-356/ BE/ F-2	Reactor	476' 6"	SW C.RM M/49	N/A	Closed	Closed	No	N/A	N/A	S
33143	1	18	D03-2370-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR 5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	S
33144	1	18	D03-2370-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR 5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33145	1	18	D03-2370-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33146	1	18	D03-2370-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33147	1	18	D03-2371-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33148	1	18	D03-2371-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33149	1	18	D03-2371-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33150	1	18	D03-2371-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33151	1	18	D03-2372-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33152	1	18	D03-2372-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33153	1	18	D03-2372-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33154	1	18	D03-2372-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33155	1	18	D03-2373-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33156	1	18	D03-2373-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33157	1	18	D03-2373-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33158	1	18	D03-2373-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
33159	1	18	D03-LCS1-----LS	HPCI/ Gland Seal Condenser Drain Pump Low Level Switch	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Closed	Operbl.	Yes	12E-3532/ T	MOTIVE-N/A CONTROL-250V S DC MCC Bus #3A	
33160	1	18	D03-LCS2-----LS	HPCI/ Gland Seal Condenser Drain Pump High Level Switch	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3528-1/ AD	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	
33161	1	I	D03-2399-0069-V15	HPCI/ Gland Seal Condenser Instrument Line Valve	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	N/A		Open	Open	No	N/A	N/A	S
33162	1	I	D03-2399-0068-V15	HPCI/ Gland Seal Condenser Instrument Drain Valve	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33163	1	I	D03-2399-0070-V15	HPCI/ Gland Seal Condenser Instrument Drain Valve	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	N/A		Closed	Closed	No	N/A	N/A	S
33164	2	I	D03-1501-0070AV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-360-1/ UR/ D-4	Reactor	476' 6"	TORUS BSMT 3	N/A		Closed	Closed	No	N/A	N/A	S
33165	2	I	D03-1501-0033AV15	LPCI/ Suppression Pool Suction Line Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 3	N/A		Open	Open	No	N/A	N/A	S
33166	2	I	D03-1599-0073AV15	LPCI/ Suppression Pool Suction Line Vent Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 3	N/A		Closed	Closed	No	N/A	N/A	S
33167	2	8A	D03-1501-0005BV20	LPCI/ Suppression Pool Suction Line "B" Valve	M-360-1/ UR/ E-5	Reactor	476' 6"	SE C.RM N/45	R		Open	Open	No	12E-3440-1/ Y	MOTIVE/CONTROL-N/A	S
33168	2	8A	D03-1501-0005AV20	LPCI/ Suppression Pool Suction Line "A" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SE C.RM N/45	R		Open	Open	No	12E-3440-1/ Y	MOTIVE/CONTROL-N/A	S
33169	2	I	D03-1501-0031BV15	LPCI/ Condensate Storage Tank Suction Line "B" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33170	2	I	D03-1501-0031AV15	LPCI/ Condensate Storage Tank Suction Line "A" Valve	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33171	2	I	D03-1501-0006BV15	LPCI/ Suppression Pool Suction Line "B" Drain Valve	M-360-1/ UR/ E-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33172	2	I	D03-1501-0006AV15	LPCI/ Suppression Pool Suction Line "A" Drain Valve	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33173	2	7	D03-1599-0013BV26	LPCI/ Suppression Pool Suction Line "B" Relief Valve	M-360-1/ UR/ E-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
33174	2	7	D03-1599-0013AV26	LPCI/ Suppression Pool Suction Line "A" Relief Valve	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
33175	2	18	D03-1501-0047B-PI	LPCI/ LPCI Pump Suction Line "B" Pressure Indicator	M-360-1/ UR/ E-4	Reactor	476' 6"	SE C.RM N/45	N/A		N/A	N/A	No	N/A	N/A	S
33176	2	18	D03-1501-0047A-PI	LPCI/ LPCI Pump Suction Line "A" Pressure Indicator	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		N/A	N/A	No	N/A	N/A	S
33177	2	6	D03-1502-B----P30	LPCI/ LPCI Injection Pump "B"	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	SR	1,2	Off	On	Yes	12E-3436-2/ P	MOTIVE-4160V AC Switchgear 33-1 CONTROL-125V DC Bus #3A-1, RB Dist. Panel #3	S
33178	2	6	D03-1502-A----P30	LPCI/ LPCI Injection Pump "A"	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	SR	1,2	Off	On	Yes	12E-3436-1/ P	MOTIVE-4160V AC Switchgear 33-1 CONTROL-125V DC Bus #3A-1, RB Dist. Panel #3	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33179	2	I	D03-1501-00748V15	LPCI/ LPCI Pump Line "B" Vent Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33180	2	I	D03-1501-0074AV15	LPCI/ LPCI Pump Line "A" Vent Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33181	2	I	D03-1501-00148V15	LPCI/ LPCI Pump Line "B" Drain Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33182	2	I	D03-1501-0014AV15	LPCI/ LPCI Pump Line "A" Drain Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
33183	2	18	D03-1501-00488-PI	LPCI/ LPCI Pump Discharge Line "B" Pressure Indicator	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A		N/A	N/A	No	N/A	N/A	S
33184	2	18	D03-1501-0048A-PI	LPCI/ LPCI Pump Discharge Line "A" Pressure Indicator	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A		N/A	N/A	No	N/A	N/A	S
33185	2	18	D03-1554-B-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM M/45	B		N/A	N/A	No	N/A	N/A	S
33186	2	18	D03-1554-A-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM M/45	B		N/A	N/A	No	N/A	N/A	S
33187	2	18	D03-1554-F-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM M/45	B		N/A	N/A	No	N/A	N/A	S
33188	2	18	D03-1554-E-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM M/45	B		N/A	N/A	No	N/A	N/A	S
33189	2	R	D03-1501-0063BV25	LPCI/ LPCI Pump Discharge Line "B" Check Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
33190	2	R	D03-1501-0063AV25	LPCI/ LPCI Pump Discharge Line "A" Check Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
33191	2	I	D03-1501-0009BV15	LPCI/ LPCI Pump Discharge Line "B" Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A		Open	Open	No	N/A	N/A	S
33192	2	I	D03-1501-0009AV15	LPCI/ LPCI Pump Discharge Line "A" Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A		Open	Open	No	N/A	N/A	S
33193	2	18	D03-1546-A-----TE	LPCI/ Heat Exchanger Inlet Line Temperature Element	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A		N/A	N/A	No	N/A	N/A	S
33194	2	18	D03-1546-A1-----TE	LPCI/ Heat Exchanger Inlet Line Temperature Element	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A		N/A	N/A	No	N/A	N/A	S
33195	2	18	D03-1540-0005--TR	LPCI/ Heat Exchanger Temperature Recorder	M-360-1/ UR/ D-8	Reactor	476' 6"	SE C.RM M-N/44	N/A		N/A	N/A	No	N/A	N/A	S
33196	2	R	D03-1501-0010AV15	LPCI/ LPCI Heat Exchanger Inlet Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A		Open	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33197	2	8A	D03-1501-0011AV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM M-N/44	R		Open	Open	No	12E-3440-2/ X	MOTIVE/CONTROL-N/A	S
33198	2	18	D03-1547-A-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM M-N/44	N/A		N/A	N/A	No	N/A	N/A	S
33199	2	18	D03-1547-A1-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM M-N/44	N/A		N/A	N/A	No	N/A	N/A	S
33200	2	R	D03-1501-0012AV15	LPCI/ LPCI Heat Exchanger Outlet Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A		Open	Closed	No	N/A	N/A	S
33201	2	8A	D03-1501-0032AV20	LPCI/ LPCI Header Crosstie Line Valve	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM N/45	SR	1	Open	Closed	Yes	12E-3440-3/ W	MOTIVE/CONTROL-MCC 38-4	S
33202	2	18	D03-1548-A-----FE	LPCI/ LPCI Header Line Flow Element	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33203	2	18	D03-1549-A-----FT	LPCI/ LPCI Header Line Flow Transmitter	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33204	2	18	D03-1501-0058A-FT	LPCI/ LPCI Header Line Flow Transmitter	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33205	2	18	D03-1540-0007--FR	LPCI/ LPCI Header Line Flow Recorder	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33206	2	18	D03-1501-0092AFIS	LPCI/ LPCI Header Line Flow Indicating Switch	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33207	2	I	D03-1501-0017AV26	LPCI/ LPCI Header Line Relief Valve	M-360-1/ UR/ C-2	Reactor	476' 6"	M-N/44-45			Closed	Closed	No	N/A	N/A	S
33208	2	18	D03-1501-0051A-PS	LPCI/ LPCI Header Line Pressure Switch	M-360-1/ UR/ C-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33209	2	18	D03-1557-A----PSL	LPCI/ LPCI Header Line Pressure Switch	M-360-1/ UR/ C-2	Reactor	476' 6"	M-N/44-45			N/A	N/A	No	N/A	N/A	S
33210	2	I	D03-1501-0043AV15	LPCI/ LPCI Drywell Spray Line Drain Valve	M-360-1/ UR/ A-3	Reactor	545' 6"	L-M/47-48			Closed	Closed	No	N/A	N/A	S
33211	2	8A	D03-1501-0027AV20	LPCI/ Drywell Spray Line Valve	M-360-1/ UR/ A-3	Reactor	545' 6"	L/47	R		Closed	Closed	No	12E-3440-3/ W	MOTIVE/CONTROL-N/A	S
33212	2	8A	D03-1501-0018AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 11	R		Closed	Closed	No	12E-3441-1/ Q	MOTIVE/CONTROL-N/A	S
33213	2	18	D03-1550-A-----FE	LPCI/ LPCI Injection Line Flow Element	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45			N/A	N/A	No	N/A	N/A	S
33214	2	18	D03-1501-0053AFSL	LPCI/ LPCI Injection Line Flow Switch Low	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45			N/A	N/A	No	N/A	N/A	S
33215	2	18	D03-1551-C-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45			N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33216	2	18	D03-1551-A-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
33217	2	18	D03-1559-C-----FY	LPCI/ LPCI Injection Line Flow Converter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
33218	2	18	D03-1559-A-----FY	LPCI/ LPCI Injection Line Flow Converter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
33219	2	18	D03-1561-A-----FI	LPCI/ LPCI Injection Line Flow Indicator	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
33220	2	18	D03-1540-0013A-SI	LPCI/ LPCI Injection Line Flow Summer	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
33221	2	18	D03-1540-0012AFIS	LPCI/ LPCI Injection Line Flow Indicating Switch	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
33222	2	8A	D03-1501-0021AV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-2	Reactor	517' 6"	K/44-45	R		Open	Open	No	12E-3441-3/ S	MOTIVE/CONTROL-N/A	S
33223	2	I	D03-1501-0079AV15	LPCI/ LPCI Injection Line Drain Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		Closed	Closed	No	N/A	N/A	S
33224	2	8A	D03-1501-0038AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 2	R		Closed	Closed	No	12E-3441-1/ Q	MOTIVE/CONTROL-N/A	S
33225	2	8A	D03-1501-0022AV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-3	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-3437A/ S	MOTIVE-MCC 38-7 CONTROL MCC 38-7, 125V DC TB Main Bus #3A-1	S
33226	2	8A	D03-1001-0005AV20	SHUTDOWN COOLING/ Injection Line Valve	M-363/ AH/ E-2	Reactor	476' 6"	TORUS BAY 2	R		Closed	Closed	No	12E-3508E/ N	MOTIVE/CONTROL-N/A	S
33227	2	I	D03-1001-0014AV15	SHUTDOWN COOLING/ Injection Line Drain Valve	M-363/ AH/ E-2	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Closed	No	N/A	N/A	S
33228	2	I	D03-1501-0023AV15	LPCI/ LPCI Injection Line Drain Valve	M-360-1/ UR/ B-4	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Closed	No	N/A	N/A	S
33229	2	R	D03-1501-0025AV25	LPCI/ LPCI Injection Line Check Valve	M-360-1/ UR/ B-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33230	2	I	D03-1501-0026AV15	LPCI/ LPCI Injection Line Inside Containment Valve	M-360-1/ UR/ B-4	Reactor	515' 5"	DRYWELL	N/A		Open	Open	No	N/A	N/A	S
33231	2	8A	D03-1501-0013AV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-360-1/ UR/ C-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Open	Operbl.	Yes	12E-3440-2/ X	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC Bus #3A-1, 24/48V DC Dist. Panel #2B	S
33232	2	I	D03-1501-0064BV15	LPCI/ LPCI Minimum Flow Line "B" Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM N/45	N/A		Open	Open	No	N/A	N/A	S
33233	2	I	D03-1501-0064AV15	LPCI/ LPCI Minimum Flow Line "A" Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM N/45	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33234	2	R	D03-1501-00658V15	LPCI/ LPCI Minimum Flow Line "B" Check Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
33235	2	R	D03-1501-0065AV15	LPCI/ LPCI Minimum Flow Line "A" Check Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
33236	2	8A	D03-0202-0005AV20	REACTOR RECIRCULATION/ Recirc Pump A Discharge Valve	M-357-2/ AM/ D-6	Reactor	515' 5"	DRYWELL	SR		Open	Closed	Yes	12E-3420A/ T	MOTIVE/CONTROL-MCC 38-7	S
33237	2	10	D03-5746-A----H15	LPCI/ LPCI Emergency Room Air Cooler	M-355/ PC/ C-6	Reactor	476' 6"	SE C.RM M/44	SR	1	Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 38-1 COOLING-Service Water System	S
33238	2	7	D03-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33239	2	7	D03-0203-00048V26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33240	2	7	D03-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33241	2	7	D03-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33242	2	7	D03-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33243	2	7	D03-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33244	2	7	D03-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33245	2	7	D03-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33246	2	8B	D03-0203-0003AV26	ADS/ Target Rock Valve	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #38-1	S
33247	2	8B	D03-0203-00038V26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #38-1	S
33248	2	8B	D03-0203-0003EV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-6	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #38-1	S
33249	2	8B	D03-0203-0003CV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ C-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #38-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33250	2	88	D03-0203-0003DV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ B-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #38-1	
33251	2	I	D03-4799-0427-V15	INSTRUMENT AIR/ Target Rock Accumulator Drain Valve	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33252	2	21	D03-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
33253	2	I	D03-4799-0281AV25	INSTRUMENT AIR/ Target Rock Accumulator Check Valve	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
33254	2	18	D03-0261-0037A-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33255	2	18	D03-0261-0037B-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33256	2	18	D03-0261-0037C-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33257	2	18	D03-0261-0014A-TE	ADS/ Target Rock Temperature Element	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33258	2	18	D03-0261-0014B-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ E-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33259	2	18	D03-0261-0014E-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ E-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33260	2	18	D03-0261-0014C-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ D-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33261	2	18	D03-0261-0014D-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ B-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33262	2	R	D03-0220-0105AV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33263	2	R	D03-0220-0105BV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33264	2	R	D03-0220-0105CV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33265	2	R	D03-0220-0105DV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33266	2	R	D03-0220-0105EV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33267	2	R	D03-0229-0068AV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33268	2	R	D03-0229-0068BV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33269	2	R	D03-0229-0068CV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33270	2	R	D03-0229-0068DV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
33271	2	R	D03-0229-0068EV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33272	2	18	D03-0261-0001A-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ F-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33273	2	18	D03-0261-0001B-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33274	2	18	D03-0261-0001C-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33275	2	18	D03-0261-0001D-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
33276	2	I	D03-0220-0011AV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33277	2	I	D03-0220-0012AV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33278	2	I	D03-0220-0011BV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33279	2	I	D03-0220-0012BV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33280	2	I	D03-0220-0011CV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33281	2	I	D03-0220-0012CV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33282	2	I	D03-0220-0011DV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33283	2	I	D03-0220-0012DV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Open	No	N/A	N/A	S
33284	2	R	D03-0220-0017AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Operbl.	No	N/A	N/A	S
33285	2	R	D03-0220-0018AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Operbl.	No	N/A	N/A	S
33286	2	R	D03-0220-0017BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Operbl.	No	N/A	N/A	S
33287	2	R	D03-0220-0018BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Operbl.	No	N/A	N/A	S
33288	2	R	D03-0220-0017CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Operbl.	No	N/A	N/A	S
33289	2	R	D03-0220-0018CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A		Open	Operbl.	No	N/A	N/A	S

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
33290	2	R	D03-0220-0017DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
33291	2	R	D03-0220-0018DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
33292	2	7	D03-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
33293	2	88	D03-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
33294	2	88	D03-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
33295	2	7	D03-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
33296	2	88	D03-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
33297	2	88	D03-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
33298	2	7	D03-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
33299	2	88	D03-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
33300	2	88	D03-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
33301	2	7	D03-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S	Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
33302	2	88	D03-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
33303	2	88	D03-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR	Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
33304	2	21	D03-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
33305	2	21	D03-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
33306	2	21	D03-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S
33307	2	21	D03-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
33308	2	I	D03-0220-0084AV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
33309	2	I	D03-0220-0084BV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
33310	2	I	D03-0220-0084CV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
33311	2	I	D03-0220-0084DV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	N/A	Closed	Closed	No	N/A	N/A	S
33312	2	8A	D03-0220-0001-V20	MAIN STEAM/ Isolation Valve Line Drain Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	R	Closed	Closed	No	N/A	N/A	S
33313	3	I	D03-0263-0013BM03	NUCLEAR BOILER/ Instrument Line Condensing Chamber	M-357-1/ BA/ E-4	Reactor	537' 0"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
33314	3	I	D03-0263-0218BV15	NUCLEAR BOILER/ Instrument Line Valve	M-357-1/ BA/ C-4	Reactor	545' 6"	K/48-49	N/A	Open	Open	No	N/A	N/A	S
33315	3	R	D03-0263-0219BV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-357-1/ BA/ C-4	Reactor	545' 6"	K/48-49	N/A	Open	Operbl.	No	N/A	N/A	S
33316	3	18	D03-0263-0152B-PT	NUCLEAR BOILER/ Reactor Pressure Transmitt. (ROB-2203-6)	M-357-1/ BA/ D-3	Reactor	545' 6"	K/48-49	B	N/A	N/A	No	N/A	N/A	S
33317	3	18	D03-0640-0027--UR	REACTOR LEVEL CONTROL/ Pressure Recorder (ROB-903-5)	M-357-1/ BA/ C-1	Turbine	534' 0"	C. RM PNL 903-5 B		On	On	Yes	12E-3418-1/ AK	MOTIVE-N/A CONTROL-120V AC Essential Bus 903-49	S
33318	3	I	D03-0263-0241BV15	NUCLEAR BOILER/ Instrument Line Valve	M-357-1/ BA/ C-4	Reactor	517' 6"	K/49	N/A	Open	Open	No	N/A	N/A	S
33319	3	R	D03-0263-0242BV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-357-1/ BA/ C-4	Reactor	517' 6"	K/49	N/A	Open	Operbl.	No	N/A	N/A	S
33320	3	I	D03-0263-0221DV15	NUCLEAR BOILER/ Instrument Line Valve	M-357-1/ BA/ B-4	Reactor	517' 6"	K/49	N/A	Open	Open	No	N/A	N/A	S
33321	3	R	D03-0263-0220DV25	NUCLEAR BOILER/ Instrument Line Excess Flow Check Valve	M-357-1/ BA/ B-4	Reactor	517' 6"	K/49	N/A	Open	Operbl.	No	N/A	N/A	S
33322	3	18	D03-0263-0073B-LT	NUCLEAR BOILER/ Reactor Level Transmitter (ROB-2203-8)	M-357-1/ BA/ B-2	Reactor	517' 6"	K/49	B	N/A	N/A	No	N/A	N/A	S
33323	3	18	D03-0263-0149BLIS	NUCLEAR BOILER/ Reactor Level Switch (ROB-2203-73B)	M-357-1/ BA/ B-2	Turbine	538' 0"	H/35	B	N/A	N/A	No	N/A	N/A	S
34001	1	8A	D03-2301-0004-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ C-9	Reactor	576' 7"	DRYWELL	R	Open	Open	No	12E-3529/ AE	MOTIVE/CONTROL-N/A	S
34002	1	I	D03-2399-0016-V15	HPCI/ Turbine Steam Line Test Valve	M-374/ BJ/ B-10	Reactor	476' 6"	HP RM3 N/46	N/A	Closed	Closed	No	N/A	N/A	S
34003	1	8A	D03-2301-0005-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ B-10	Reactor	476' 6"	TORUS BAY 13	R	Open	Open	No	12E-3529/ AE	MOTIVE/CONTROL-N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr./Elv.	LOCATION Rm. or Row/Col.	SORT NOTES		OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34004	1	18	D03-2363-----PI	HPCI/ Turbine Steam Line Pressure Indicator	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34005	1	18	D03-2364-----PT	HPCI/ Turbine Steam Line Pressure Transmitter	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34006	1	18	D03-2340-0004--PI	HPCI/ Turbine Steam Line Pressure Indicator	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34007	1	8A	D03-2301-0003-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	SR		Closed	Open	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 38-1	S
34008	1	5	D03-2301-----T20	HPCI/ HPCI Turbine	M-374/ BJ/ A-6	Reactor	476' 6"	HP RM3 N/46-47	S 5		Off	On	No	N/A	N/A	S
34009	1	I	D03-2399-0017-V15	HPCI/ Turbine Exhaust Line Drain Valve	M-374/ BJ/ A-6	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
34010	1	18	D03-2367-----PI	HPCI/ Turbine Exhaust Line Pressure Indicator	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34011	1	18	D03-2366-----PT	HPCI/ Turbine Exhaust Line Pressure Transmitter	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34012	1	18	D03-2340-0005--PI	HPCI/ Turbine Exhaust Line Pressure Indicator	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34013	1	18	D03-2368-A-----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34014	1	18	D03-2368-B-----PS	HPCI/ Turbine Exhaust Line Pressure Switch	M-374/ BJ/ B-6	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34015	1	R	D03-2301-0045-V25	HPCI/ Turbine Exhaust Line Check Valve	M-374/ BJ/ B-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Operbl.	No	N/A	N/A	S
34016	1	I	D03-2301-0041AV15	HPCI/ Turbine Exhaust Line Drain Valve	M-374/ BJ/ B-7	Reactor	476' 6"	TORUS BAY 13	N/A		Closed	Closed	No	N/A	N/A	S
34017	1	I	D03-2301-0074-V18	HPCI/ Turbine Exhaust Line Valve	M-374/ BJ/ C-7	Reactor	476' 6"	TORUS BAY 2	N/A		Open	Open	No	N/A	N/A	S
34018	1	R	D03-2399-0076AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Operbl.	No	N/A	N/A	S
34019	1	R	D03-2399-0076BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Operbl.	No	N/A	N/A	S
34020	1	R	D03-2399-0077AV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Operbl.	No	N/A	N/A	S
34021	1	R	D03-2399-0077BV25	HPCI/ Turbine Exhaust Line Vacuum Breaker	M-374/ BJ/ D-7	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. Normal	ST. --> Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34022	1	I	D03-2365-H----V15	HPCI/ Turbine Steam Drain Instrument Line Root Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34023	1	18	D03-2365-----LSH	HPCI/ Turbine Steam Drain Line Level Switch High	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34024	1	I	D03-2301-0054-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34025	1	I	D03-2301-0001-M01	HPCI/ Turbine Steam Drain Line Trap	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34026	1	I	D03-2301-0055-V15	HPCI/ Turbine Steam Drain Line Isolation Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34027	1	R	D03-2301-0029-V05	HPCI/ Turbine Steam Drain Line Valve	M-374/ BJ/ B-10	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Closed	No	N/A	N/A	S
34028	1	R	D03-2301-0028-V05	HPCI/ Turbine Steam Drain Line Valve	M-374/ BJ/ B-8	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Open	No	N/A	N/A	S
34029	1	I	D03-2301-0063BM01	HPCI/ Turbine Steam Drain Line Restricting Orifice	M-374/ BJ/ B-8	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34030	1	18	D03-2369-----LSH	HPCI/ Turbine Exhaust Drain Line Level Switch High	M-374/ BJ/ B-7	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34031	1	I	D03-2301-0050-V15	HPCI/ Turbine Exhaust Steam Tie Line Valve	M-374/ BJ/ B-7	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
34032	1	I	D03-2301-0033-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ C-7	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34033	1	I	D03-2301-0002-M01	HPCI/ Turbine Exhaust Drain Line Trap	M-374/ BJ/ C-7	Reactor	476' 6"	HP RM3 N/46	N/A		N/A	N/A	No	N/A	N/A	S
34034	1	I	D03-2301-0047-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ C-7	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34035	1	R	D03-2301-0034-V25	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ D-7	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Operbl.	No	N/A	N/A	S
34036	1	I	D03-2301-0041BV15	HPCI/ Turbine Exhaust Drain Line Drain Valve	M-374/ BJ/ D-7	Reactor	476' 6"	HP RM3 N/46	N/A		Closed	Closed	No	N/A	N/A	S
34037	1	I	D03-2369-H----V15	HPCI/ Turbine Exhaust Drain Instrument Line Root Valve	M-374/ BJ/ B-7	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34038	1	I	D03-2301-0071-V15	HPCI/ Turbine Exhaust Drain Line Valve	M-374/ BJ/ D-7	Reactor	476' 6"	HP RM3 N/46	N/A		Open	Open	No	N/A	N/A	S
34039	1	I	D03-1501-0070BV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 7	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34040	1	I	D03-1501-00338V15	LPCI/ Suppression Pool Suction Line Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 7	N/A	Open	Open	No	N/A	N/A	S
34041	1	I	D03-1599-00738V15	LPCI/ Suppression Pool Suction Line Vent Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 7	N/A	Closed	Closed	No	N/A	N/A	S
34042	1	8A	D03-1501-0005CV20	LPCI/ Suppression Pool Suction Line "C" Valve	M-360-1/ UR/ E-5	Reactor	476' 6"	SW C.RM N/49	R	Open	Open	No	12E-3440-1/ Y	MOTIVE/CONTROL-N/A	S
34043	1	8A	D03-1501-0005DV20	LPCI/ Suppression Pool Suction Line "D" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SW C.RM N/49	R	Open	Open	No	12E-3440-1/ Y	MOTIVE/CONTROL-N/A	S
34044	1	I	D03-1501-0031CV15	LPCI/ Condensate Storage Tank Suction Line "C" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34045	1	I	D03-1501-0031DV15	LPCI/ Condensate Storage Tank Suction Line "D" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34046	1	I	D03-1501-0006CV15	LPCI/ Suppression Pool Suction Line "C" Drain Valve	M-360-1/ UR/ E-5	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34047	1	I	D03-1501-0006DV15	LPCI/ Suppression Pool Suction Line "D" Drain Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34048	1	7	D03-1599-0013CV26	LPCI/ Suppression Pool Suction Line "C" Relief Valve	M-360-1/ UR/ E-5	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Operbl.	No	N/A	N/A	S
34049	1	7	D03-1599-0013DV26	LPCI/ Suppression Pool Suction Line "D" Relief Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Operbl.	No	N/A	N/A	S
34050	1	18	D03-1501-0047C-PI	LPCI/ LPCI Pump Suction Line "C" Pressure Indicator	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	N/A	N/A	N/A	No	N/A	N/A	S
34051	1	18	D03-1501-0047D-PI	LPCI/ LPCI Pump Suction Line "D" Pressure Indicator	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	N/A	N/A	N/A	No	N/A	N/A	S
34052	1	6	D03-1502-C----P30	LPCI/ LPCI Injection Pump "C"	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	SR 1,2	Off	On	Yes	12E-3436-3/ Q	MOTIVE-4160V AC Switchgear 34-1 CONTROL-125V DC TB Res Bus #38-1	S
34053	1	6	D03-1502-D----P30	LPCI/ LPCI Injection Pump "D"	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	SR 1,2	Off	On	Yes	12E-3436-4/ Q	MOTIVE-4160V AC Switchgear 34-1 CONTROL-125V DC TB Res Bus #38-1	S
34054	1	I	D03-1501-0074CV15	LPCI/ LPCI Pump Line "C" Vent Valve	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34055	1	I	D03-1501-0074DV15	LPCI/ LPCI Pump Line "D" Vent Valve	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34056	1	I	D03-1501-0014CV15	LPCI/ LPCI Pump Line "C" Drain Valve	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34057	1	I	D03-1501-0014DV15	LPCI/ LPCI Pump Line "D" Drain Valve	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34058	1	18	D03-1501-0048C-PI	LPCI/ LPCI Pump Discharge Line "C" Pressure Indicator	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	N/A	N/A	N/A	No	N/A	N/A	S
34059	1	18	D03-1501-0048D-PI	LPCI/ LPCI Pump Discharge Line "D" Pressure Indicator	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	N/A	N/A	N/A	No	N/A	N/A	S
34060	1	18	D03-1554-C-----PS	LPCI/ Pump "C" Discharge Pressure Switch (ROB-2203-36)	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM M/49	B	N/A	N/A	No	N/A	N/A	S
34061	1	18	D03-1554-D-----PS	LPCI/ Pump "D" Discharge Pressure Switch (ROB-2203-36)	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM M/49	B	N/A	N/A	No	N/A	N/A	S
34062	1	18	D03-1554-H-----PS	LPCI/ Pump "C" Discharge Pressure Switch (ROB-2203-36)	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM M/49	B	N/A	N/A	No	N/A	N/A	S
34063	1	18	D03-1554-J-----PS	LPCI/ Pump "D" Discharge Pressure Switch (ROB-2203-36)	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM M/49	B	N/A	N/A	No	N/A	N/A	S
34064	1	R	D03-1501-0063CV25	LPCI/ LPCI Pump Discharge Line "C" Check Valve	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Operbl.	No	N/A	N/A	S
34065	1	R	D03-1501-0063DV25	LPCI/ LPCI Pump Discharge Line "D" Check Valve	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Operbl.	No	N/A	N/A	S
34066	1	I	D03-1501-0009CV15	LPCI/ LPCI Pump Discharge Line "C" Valve	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	N/A	Open	Open	No	N/A	N/A	S
34067	1	I	D03-1501-0009DV15	LPCI/ LPCI Pump Discharge Line "D" Valve	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	N/A	Open	Open	No	N/A	N/A	S
34068	1	18	D03-1546-B-----TE	LPCI/ Heat Exchanger Inlet Line Temperature Element	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A	N/A	N/A	No	N/A	N/A	S
34069	1	18	D03-1546-B1-----TE	LPCI/ Heat Exchanger Inlet Line Temperature Element	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A	N/A	N/A	No	N/A	N/A	S
34070	1	18	D03-1540-0005--TR	LPCI/ Heat Exchanger Temperature Recorder	M-360-1/ UR/ D-8	Reactor	476' 6"	SW C.RM M-N/49	N/A	N/A	N/A	No	N/A	N/A	S
34071	1	I	D03-1501-0010BV15	LPCI/ LPCI Heat Exchanger Inlet Line Valve	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A	Open	Open	No	N/A	N/A	S
34072	1	21	D03-1503-B----H15	LPCI/ LPCI Heat Exchanger	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	S	N/A	N/A	No	N/A	N/A	S
34073	1	I	D03-1501-0012BV15	LPCI/ LPCI Heat Exchanger Outlet Line Valve	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A	Open	Open	No	N/A	N/A	S
34074	1	8A	D03-1501-0011BV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-360-1/ UR/ E-8	Reactor	476' 6"	SW C.RM M-N/49	SR 1	Open	Closed	Yes	12E-3440-2/ X	MOTIVE/CONTROL-MCC 39-1	S
34075	1	18	D03-1543-B----PDT	LPCI/ Heat Exchanger Differential Pressure Transmitter	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr./Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34076	1	18	D03-1501-0908-PDS	LPCI/ Heat Exchanger Differential Pressure Switch	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A		N/A	N/A	No	N/A	N/A	S
34077	1	18	D03-1555-B-----FY	LPCI/ Heat Exchanger Differential Pressure Converter	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A		N/A	N/A	No	N/A	N/A	S
34078	1	18	D03-1540-0038DPIC	LPCI/ Heat Exchanger Differential Pressure Controller	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A		N/A	N/A	No	N/A	N/A	S
34079	1	18	D03-1540-0006B-ZC	LPCI/ Heat Exchanger Differential Pressure Modulator	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	N/A		N/A	N/A	No	N/A	N/A	S
34080	1	18	D03-1547-B-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-360-1/ UR/ D-8	Reactor	476' 6"	SW C.RM M-N/49	N/A		N/A	N/A	No	N/A	N/A	S
34081	1	18	D03-1547-B1-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-360-1/ UR/ D-8	Reactor	476' 6"	SW C.RM M-N/49	N/A		N/A	N/A	No	N/A	N/A	S
34082	1	8A	D03-1501-0032BV20	LPCI/ LPCI Header Crosstie Line Valve	M-360-1/ UR/ D-8	Reactor	476' 6"	SW C.RM N/49	SR	1	Open	Closed	Yes	12E-3440-3/ W	MOTIVE/CONTROL-MCC 39-1	S
34083	1	18	D03-1548-B-----FE	LPCI/ LPCI Header Line Flow Element	M-360-1/ UR/ D-8	Reactor	476' 6"	N/49		N/A	N/A	N/A	No	N/A	N/A	S
34084	1	18	D03-1549-B-----FT	LPCI/ LPCI Header Line Flow Transmitter	M-360-1/ UR/ D-8	Reactor	476' 6"	N/49		N/A	N/A	N/A	No	N/A	N/A	S
34085	1	18	D03-1501-0058B-FT	LPCI/ LPCI Header Line Flow Transmitter	M-360-1/ UR/ D-8	Reactor	476' 6"	N/49		N/A	N/A	N/A	No	N/A	N/A	S
34086	1	18	D03-1540-0007--FR	LPCI/ LPCI Header Line Flow Recorder	M-360-1/ UR/ D-8	Reactor	476' 6"	N/49		N/A	N/A	N/A	No	N/A	N/A	S
34087	1	18	D03-1501-0092BFIS	LPCI/ LPCI Header Line Flow Indicating Switch	M-360-1/ UR/ D-8	Reactor	476' 6"	N/49		B/A	N/A	N/A	No	N/A	N/A	S
34088	1	I	D03-1501-0017BV26	LPCI/ LPCI Header Line Relief Valve	M-360-1/ UR/ C-8	Reactor	476' 6"	N/49		N/A	Closed	Closed	No	N/A	N/A	S
34089	1	18	D03-1501-0051B-PS	LPCI/ LPCI Header Line Pressure Switch	M-360-1/ UR/ C-8	Reactor	476' 6"	N/49		N/A	N/A	N/A	No	N/A	N/A	S
34090	1	18	D03-1557-B----PSL	LPCI/ LPCI Header Line Pressure Switch	M-360-1/ UR/ C-8	Reactor	476' 6"	N/49		N/A	N/A	N/A	No	N/A	N/A	S
34091	1	I	D03-1501-0043BV15	LPCI/ LPCI Drywell Spray Line Drain Valve	M-360-1/ UR/ A-7	Reactor	517' 6"	M/48		N/A	Closed	Closed	No	N/A	N/A	S
34092	1	8A	D03-1501-0027BV20	LPCI/ Drywell Spray Line Valve	M-360-1/ UR/ A-7	Reactor	517' 6"	L/47		R	Closed	Closed	No	12E-3440-3/ W	MOTIVE/CONTROL-N/A	S
34093	1	8A	D03-1501-0018BV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-7	Reactor	476' 6"	TORUS BAY 1		R	Closed	Closed	No	12E-3441-1/ Q	MOTIVE/CONTROL-N/A	S
34094	1	18	D03-1550-B-----FE	LPCI/ LPCI Injection Line Flow Element	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50		N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION FACILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34095	1	18	D03-1501-0053BFSL	LPCI/ LPCI Injection Line Flow Switch Low	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34096	1	18	D03-1551-B-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34097	1	18	D03-1551-D-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34098	1	18	D03-1559-B-----FY	LPCI/ LPCI Injection Line Flow Converter	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34099	1	18	D03-1559-D-----FY	LPCI/ LPCI Injection Line Flow Converter	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34100	1	18	D03-1561-B-----FI	LPCI/ LPCI Injection Line Flow Indicator	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34101	1	18	D03-1540-0013B-SI	LPCI/ LPCI Injection Line Flow Summer	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34102	1	18	D03-1540-0012BFIS	LPCI/ LPCI Injection Line Flow Indicating Switch	M-360-1/ UR/ B-8	Reactor	476' 6"	K/50	N/A	N/A	N/A	No	N/A	N/A	S
34103	1	8A	D03-1501-0021BV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-8	Reactor	517' 6"	K/50	R	Open	Open	No	12E-3441A/ U	MOTIVE/CONTROL-N/A	S
34104	1	I	D03-1501-0079BV15	LPCI/ LPCI Injection Line Drain Valve	M-360-1/ UR/ B-8	Reactor	517' 6"	K/50	N/A	Closed	Closed	No	N/A	N/A	S
34105	1	8A	D03-1501-0038BV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-8	Reactor	476' 6"	TORUS BAY 10	SR 1	Closed	Open	Yes	12E-3441-1/ Q	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC TB Res Bus #38-1	S
34106	1	I	D03-1501-0087BV15	LPCI/ LPCI Injection Line Drain Valve	M-360-1/ UR/ B-8	Reactor	476' 6"	TORUS BAY 10	N/A	Closed	Closed	No	N/A	N/A	S
34107	1	8A	D03-1501-0020BV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-8	Reactor	476' 6"	TORUS BAY 10	SR 1	Closed	Open	Yes	12E-3441-2/ R	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC TB Res Bus #38-1	S
34108	1	8A	D03-1501-0022BV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-7	Reactor	476' 6"	TORUS BAY 10	R	Closed	Closed	No	12E-3441A/ U	MOTIVE/CONTROL-N/A	S
34109	1	8A	D03-1501-0013BV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-360-1/ UR/ C-8	Reactor	476' 6"	TORUS BAY 10	SR 1	Open	Operbl.	Yes	12E-3440-2/ X	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC Bus #38-1, 24/48V DC Dist. Panel #38	S
34110	1	I	D03-1501-0064CV15	LPCI/ LPCI Minimum Flow Line "B" Valve	M-360-1/ UR/ E-8	Reactor	476' 6"	SW C.RM N/49	N/A	Open	Open	No	N/A	N/A	S
34111	1	I	D03-1501-0064DV15	LPCI/ LPCI Minimum Flow Line "A" Valve	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM N/49	N/A	Open	Open	No	N/A	N/A	S
34112	1	R	D03-1501-0065CV15	LPCI/ LPCI Minimum Flow Line "B" Check Valve	M-360-1/ UR/ E-8	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST.	POWER SUPPORTING SYS.	REQ'D INTERCONNECTIONS. & SUPPORTING COMPONENTS	REG. ISSUE			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	Normal	Desired	REQD?	DWG. NO./REV.	(16)	(17)	
34113	1	R	D03-1501-0065DV15	LPCI/ LPCI Minimum Flow Line "A" Check Valve	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM N/49	N/A		Closed	Operbl.	No	N/A	N/A	S
34114	1	10	D03-5746-B----H15	LPCI/ LPCI Emergency Room Air Cooler	M-355/ PC/ C-6	Reactor	476' 6"	SW C.RM M/50	SR 1	Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 39-1 S COOLING-Service Water System	S	
34115	1	I	D03-1501-0036CV15	CCSW/ CCSW Pump Suction Line "C" Valve	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	N/A		Open	Open	No	N/A	N/A	S
34116	1	I	D03-1501-0036DV15	CCSW/ CCSW Pump Suction Line "D" Valve	M-360-2/ X/ F-2	Turbine	495' 0"	D/52	N/A		Open	Open	No	N/A	N/A	S
34117	1	I	D03-1599-0017CV15	CCSW/ CCSW Pump Suction Instrument Line "C" Valve	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	N/A		Closed	Closed	No	N/A	N/A	S
34118	1	I	D03-1599-0017DV15	CCSW/ CCSW Pump Suction Instrument Line "D" Valve	M-360-2/ X/ F-1	Turbine	495' 0"	D/52	N/A		Closed	Closed	No	N/A	N/A	S
34119	1	5	D03-1501-0044CP30	CCSW/ CCSW Pump "C"	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	SR 1,2	Off	On	Yes	12E-3435-2/ S	MOTIVE-4160V AC Switchgear 34 CONTROL-125V DC TB Res Bus #38-1	S	
34120	1	5	D03-1501-0044DP30	CCSW/ CCSW Pump "D"	M-360-2/ X/ F-2	Turbine	495' 0"	D/52	SR 1,2	Off	On	Yes	12E-3435-2/ S	MOTIVE-4160V AC Switchgear 34 CONTROL-125V DC TB Res Bus #38-1	S	
34121	1	I	D03-1599-0018CV15	CCSW/ CCSW Pump "C" Vent Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A		Closed	Closed	No	N/A	N/A	S
34122	1	I	D03-1599-0018DV15	CCSW/ CCSW Pump "D" Vent Valve	M-360-2/ X/ F-2	Turbine	495' 0"	D/52	N/A		Closed	Closed	No	N/A	N/A	S
34123	1	I	D03-1599-0021CV15	CCSW/ CCSW Pump "C" Drain Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A		Closed	Closed	No	N/A	N/A	S
34124	1	I	D03-1599-0021DV15	CCSW/ CCSW Pump "D" Drain Valve	M-360-2/ X/ F-2	Turbine	495' 0"	D/52	N/A		Closed	Closed	No	N/A	N/A	S
34125	1	18	D03-1501-0059C1PT	CCSW/ CCSW Pump "C" Discharge Pressure Transmitter	M-360-2/ X/ E-3	Turbine	495' 0"	D/50-51	N/A		N/A	N/A	No	N/A	N/A	S
34126	1	18	D03-1501-0059D1PT	CCSW/ CCSW Pump "D" Discharge Pressure Transmitter	M-360-2/ X/ F-3	Turbine	495' 0"	D/51-52	N/A		N/A	N/A	No	N/A	N/A	S
34127	1	18	D03-1501-0059C-PI	CCSW/ CCSW Pump "C" Discharge Pressure Indicator	M-360-2/ X/ E-3	Turbine	495' 0"	D/50-51	N/A		N/A	N/A	No	N/A	N/A	S
34128	1	18	D03-1501-0059D-PI	CCSW/ CCSW Pump "D" Discharge Pressure Indicator	M-360-2/ X/ F-3	Turbine	495' 0"	D/51-52	N/A		N/A	N/A	No	N/A	N/A	S
34129	1	I	D03-1599-0034CV15	CCSW/ CCSW Pump Cooler "C" and "D" Suction Line Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A		Open	Open	No	N/A	N/A	S
34130	1	I	D03-1599-0080CV15	CCSW/ CCSW Pump Cooler "C" and "D" 4-Way Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34131	1	I	D03-1599-0081CV15	CCSW/ Pump Cooler "C" and "D" Inlet Instrument Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Closed	Closed	No	N/A	N/A	S
34132	1	10	D03-5700-0030CH15	CCSW/ CCSW Pump Cooler "C"	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	S	N/A	N/A	No	N/A	N/A	S
34133	1	21	D03-5700-30C1-F05	CCSW/ CCSW Pump Cooler "C" Fan (ROB-Pump Cooler)	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3678A/ U	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
34134	1	21	D03-5700-30C2-F05	CCSW/ CCSW Pump Cooler "C" Fan (ROB-Pump Cooler)	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3678A/ U	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
34135	1	10	D03-5700-0030DH15	CCSW/ CCSW Pump Cooler "D"	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	S	N/A	N/A	No	N/A	N/A	S
34136	1	21	D03-5700-30D1-F05	CCSW/ CCSW Pump Cooler "D" Fan (ROB-Pump Cooler)	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3678B/ Z	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
34137	1	21	D03-5700-30D2-F05	CCSW/ CCSW Pump Cooler "D" Fan (ROB-Pump Cooler)	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3678B/ Z	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
34138	1	I	D03-1599-0035CV15	CCSW/ CCSW Pump Cooler "C" Drip Pan Drain Line Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34139	1	I	D03-1599-0036CV15	CCSW/ CCSW Pump Cooler "D" Drip Pan Drain Line Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34140	1	I	D03-1599-0037CV15	CCSW/ CCSW Pump Cooler "C" Return Line Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34141	1	I	D03-1599-0038CV15	CCSW/ CCSW Pump Cooler "D" Return Line Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34142	1	I	D03-1599-0082CV15	CCSW/ Pump Cooler "C" and "D" Outlet Instrument Valve	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	N/A	Closed	Closed	No	N/A	N/A	S
34143	1	I	D03-1537-----M01	CCSW/ Pump Cooler "C" and "D" Restricting Orifice	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	N/A	N/A	N/A	No	N/A	N/A	S
34144	1	I	D03-1536-----M01	CCSW/ Pump Cooler "C" and "D" Restricting Orifice	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	N/A	N/A	N/A	No	N/A	N/A	S
34145	1	I	D03-1599-0033CV15	CCSW/ CCSW Pump Cooler "C" and "D" Return Line Valve	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34146	1	R	D03-1501-0001CV25	CCSW/ CCSW Pump "C" Discharge Line Check Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Operbl.	No	N/A	N/A	S
34147	1	R	D03-1501-0001DV25	CCSW/ CCSW Pump "D" Discharge Line Check Valve	M-360-2/ X/ F-3	Turbine	495' 0"	D/52	N/A	Open	Operbl.	No	N/A	N/A	S
34148	1	I	D03-1501-0002CV15	CCSW/ CCSW Pump "C" Discharge Line Valve	M-360-2/ X/ E-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/ / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34149	1	I	D03-1501-0002DV15	CCSW/ CCSW Pump "D" Discharge Line Valve	M-360-2/ X/ F-3	Turbine	495' 0"	D/52	N/A	Open	Open	No	N/A	N/A	S
34150	1	I	D03-1599-0022CV15	CCSW/ CCSW Pump "C" Discharge Line Drain Valve	M-360-2/ X/ E-4	Turbine	495' 0"	VAULT RM D/50	N/A	Closed	Closed	No	N/A	N/A	S
34151	1	I	D03-1599-0022DV15	CCSW/ CCSW Pump "D" Discharge Line Drain Valve	M-360-2/ X/ F-4	Turbine	495' 0"	D/52	N/A	Closed	Closed	No	N/A	N/A	S
34152	1	I	D03-3999-0339-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-360-2/ X/ E-4	Turbine	495' 0"	D/50-51	N/A	Open	Open	No	N/A	N/A	S
34153	1	I	D03-3999-0338-V25	SERVICE WATER/ Pump Keepfill Line Check Valve	M-360-2/ X/ E-4	Turbine	495' 0"	D/50-51	N/A	Closed	Closed	No	N/A	N/A	S
34154	1	I	D03-3999-0641-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-360-2/ X/ E-5	Turbine	495' 0"	D/50	N/A	Open	Open	No	N/A	N/A	S
34155	1	I	D03-3999-0650-V15	SERVICE WATER/ DG Pump Keepfill Line Drain Valve	M-360-2/ X/ E-5	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
34156	1	I	D03-3999-0642-V25	SERVICE WATER/ DG Pump Keepfill Line Check Valve	M-360-2/ X/ E-5	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
34157	1	18	D03-1541-----B-FE	CCSW/ CCSW Pump "C" and "D" Discharge Flow Element	M-360-2/ X/ E-4	Reactor	476' 6"	N/49	N/A	N/A	N/A	No	N/A	N/A	S
34158	1	18	D03-1556-----B-FT	CCSW/ Pump "C" and "D" Flow Transmitter (ROB-2203-36)	M-360-2/ X/ D-4	Reactor	476' 6"	SW C.RM M/49	B	N/A	N/A	No	N/A	N/A	S
34159	1	18	D03-1556-----D-FT	CCSW/ Pump "C" and "D" Flow Transmitter (ROB-2203-36)	M-360-2/ X/ D-4	Reactor	476' 6"	SW C.RM M/49	B	N/A	N/A	No	N/A	N/A	S
34160	1	18	D03-1558-----B-FY	CCSW/ Pump "C" and "D" Flow Converter (ROB-903-19)	M-360-2/ X/ D-4	Turbine	534' 0"	C. RM PL 903-19	B	N/A	N/A	No	N/A	N/A	S
34161	1	18	D03-1558-----D-FY	CCSW/ Pump "C" and "D" Flow Converter (ROB-903-19)	M-360-2/ X/ D-4	Turbine	534' 0"	C. RM PL 903-19	B	N/A	N/A	No	N/A	N/A	S
34162	1	18	D03-1560-----B-FI	CCSW/ Pump "C" and "D" Flow Indicator (ROB-903-3)	M-360-2/ X/ D-4	Turbine	534' 0"	C. RM PNL 903-3	BR	Operbl.	Operbl.	Yes	12E-7827/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-49	S
34163	1	I	D03-1501-0004BV15	CCSW/ CCSW Pump "C" and "D" Discharge Header Valve	M-360-2/ X/ D-4	Reactor	476' 6"	SW C.RM N/49	N/A	Open	Open	No	N/A	N/A	S
34164	1	I	D03-1501-0077BV15	CCSW/ CCSW Heat Exchanger Inlet Instrument Line Valve	M-360-1/ UR/ E-10	Reactor	476' 6"	SW C.RM N/49	N/A	Closed	Closed	No	N/A	N/A	S
34165	1	18	D03-1552-B-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-360-1/ UR/ E-9	Reactor	476' 6"	SW C.RM N/49	N/A	N/A	N/A	No	N/A	N/A	S
34166	1	18	D03-1552-B1-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-360-1/ UR/ E-9	Reactor	476' 6"	SW C.RM N/49	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr./Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. ST. --> POWER SUPPORTING SYS. REQ'D INTERCONNECTIONS REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13) (14) (15) (16) (17)
34167	1	I	D03-1501-0078BV15	CCSW/ CCSW Heat Exchanger Outlet Instrument Line Valve	M-360-1/ UR/ F-9	Reactor	476' 6"	SW C.RM N/49	N/A	Closed Closed No N/A N/A S
34168	1	18	D03-1545-----B-TE	CCSW/ CCSW Heat Exchanger Outlet Temperature Element	M-360-1/ UR/ F-10	Reactor	476' 6"	SW C.RM N/49	N/A	N/A N/A No N/A N/A S
34169	1	8A	D03-1501-0003BV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SW C.RM N/49	SR 1,2	Closed Operbl. Yes 12E-3440-1/ Y MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC Bus #38-1, 120V AC Essen. Bus 903-49 S
34170	2	7	D03-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ E-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34171	2	7	D03-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ E-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34172	2	7	D03-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34173	2	7	D03-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34174	2	7	D03-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34175	2	7	D03-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34176	2	7	D03-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34177	2	7	D03-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	N/A	Closed Closed No N/A N/A S
34178	2	88	D03-0203-0003AV26	ADS/ Target Rock Valve	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	SR 1,2	Closed Open Yes 12E-3461-1/ AL MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #38-1 S
34179	2	88	D03-0203-0003BV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-7	Reactor	537' 0"	DRYWELL	SR 1,2	Closed Open Yes 12E-3461-1/ AL MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #38-1 S
34180	2	88	D03-0203-0003EV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-6	Reactor	537' 0"	DRYWELL	SR 1,2	Closed Open Yes 12E-3461-1/ AL MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #38-1 S
34181	2	88	D03-0203-0003CV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ D-7	Reactor	537' 0"	DRYWELL	SR 1,2	Closed Open Yes 12E-3461-1/ AL MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #38-1 S
34182	2	88	D03-0203-0003DV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ B-7	Reactor	537' 0"	DRYWELL	SR 1,2	Closed Open Yes 12E-3461-1/ AL MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #38-1 S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File: Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34183	2	I	D03-4799-0427-V15	INSTRUMENT AIR/ Target Rock Accumulator Drain Valve	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
34184	2	21	D03-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
34185	2	I	D03-4799-0281AV25	INSTRUMENT AIR/ Target Rock Accumulator Check Valve	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
34186	2	18	D03-0261-0037A-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34187	2	18	D03-0261-0037B-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34188	2	18	D03-0261-0037C-PS	ADS/ Target Rock Pressure Switch	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34189	2	18	D03-0261-0014A-TE	ADS/ Target Rock Temperature Element	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34190	2	18	D03-0261-0014B-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ E-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34191	2	18	D03-0261-0014E-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ E-6	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34192	2	18	D03-0261-0014C-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ D-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34193	2	18	D03-0261-0014D-TE	ADS/ Electromatic Temperature Element	M-345-1/ AH/ B-7	Reactor	537' 0"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34194	2	R	D03-0220-0105AV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34195	2	R	D03-0220-0105BV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34196	2	R	D03-0220-0105CV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34197	2	R	D03-0220-0105DV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34198	2	R	D03-0220-0105EV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-5	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34199	2	R	D03-0229-0068AV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34200	2	R	D03-0229-0068BV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34201	2	R	D03-0229-0068CV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34202	2	R	D03-0229-0068DV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34203	2	R	D03-0229-0068EV25	ADS/ Blowdown Line Vacuum Breaker	M-356/ BE/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Operbl.	No	N/A	N/A	S
34204	2	18	D03-0261-0001A-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ F-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S
34205	2	18	D03-0261-0001B-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	N/A		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34206	2.	18	D03-0261-0001C-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
34207	2	18	D03-0261-0001D-FE	MAIN STEAM/ Injection Line Flow Element	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	N/A	N/A	N/A	No	N/A	N/A	S
34208	2	I	D03-0220-0011AV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34209	2	I	D03-0220-0012AV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34210	2	I	D03-0220-0011BV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34211	2	I	D03-0220-0012BV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34212	2	I	D03-0220-0011CV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34213	2	I	D03-0220-0012CV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34214	2	I	D03-0220-0011DV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34215	2	I	D03-0220-0012DV15	MAIN STEAM/ Injection Instrument Line Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Open	No	N/A	N/A	S
34216	2	R	D03-0220-0017AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34217	2	R	D03-0220-0018AV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ E-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34218	2	R	D03-0220-0017BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34219	2	R	D03-0220-0018BV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ D-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34220	2	R	D03-0220-0017CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34221	2	R	D03-0220-0018CV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ C-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34222	2	R	D03-0220-0017DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S
34223	2	R	D03-0220-0018DV25	MAIN STEAM/ Injection Instrument Line Check Valve	M-345-2/ NW/ B-8	Reactor	545' 6"	L-M/46-47	N/A	Open	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34224	2	7	D03-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
34225	2	88	D03-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
34226	2	88	D03-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
34227	2	7	D03-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
34228	2	88	D03-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
34229	2	88	D03-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
34230	2	7	D03-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
34231	2	88	D03-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
34232	2	88	D03-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
34233	2	7	D03-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S
34234	2	88	D03-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
34235	2	88	D03-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR		Energy	Deenergy	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
34236	2	21	D03-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
34237	2	21	D03-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
34238	2	21	D03-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
34239	2	21	D03-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
34240	2	I	D03-0220-0084AV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
34241	2	I	D03-0220-0084BV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. -->	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	SYS. & SUPPORTING COMPONENTS	REG. INTERCONNECTIONS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34242	2	I	D03-0220-0084CV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
34243	2	I	D03-0220-0084DV25	MAIN STEAM/ Accumulator Line Check Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	N/A		Closed	Closed	No	N/A	N/A	S
34244	2	8A	D03-0220-0001-V20	MAIN STEAM/ Isolation Valve Line Drain Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	R		Closed	Closed	No	N/A	N/A	S
34245	2	I	D03-1501-0070AV15	LPCI/ Suppression Pool Suction Line Drain Valve	M-360-1/ UR/ D-4	Reactor	476' 6"	TORUS BSMT 3	N/A		Closed	Closed	No	N/A	N/A	S
34246	2	I	D03-1501-0033AV15	LPCI/ Suppression Pool Suction Line Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 3	N/A		Open	Open	No	N/A	N/A	S
34247	2	I	D03-1599-0073AV15	LPCI/ Suppression Pool Suction Line Vent Valve	M-360-1/ UR/ D-5	Reactor	476' 6"	TORUS BSMT 3	N/A		Closed	Closed	No	N/A	N/A	S
34248	2	8A	D03-1501-0005BV20	LPCI/ Suppression Pool Suction Line "B" Valve	M-360-1/ UR/ E-5	Reactor	476' 6"	SE C.RM N/45	R		Open	Open	No	12E-3440-1/ Y	MOTIVE/CONTROL-N/A	S
34249	2	8A	D03-1501-0005AV20	LPCI/ Suppression Pool Suction Line "A" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SE C.RM N/45	R		Open	Open	No	12E-3440-1/ Y	MOTIVE/CONTROL-N/A	S
34250	2	I	D03-1501-0031BV15	LPCI/ Condensate Storage Tank Suction Line "B" Valve	M-360-1/ UR/ F-5	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
34251	2	I	D03-1501-0031AV15	LPCI/ Condensate Storage Tank Suction Line "A" Valve	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
34252	2	I	D03-1501-0006BV15	LPCI/ Suppression Pool Suction Line "B" Drain Valve	M-360-1/ UR/ E-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
34253	2	I	D03-1501-0006AV15	LPCI/ Suppression Pool Suction Line "A" Drain Valve	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Closed	No	N/A	N/A	S
34254	2	7	D03-1599-0013BV26	LPCI/ Suppression Pool Suction Line "B" Relief Valve	M-360-1/ UR/ E-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
34255	2	7	D03-1599-0013AV26	LPCI/ Suppression Pool Suction Line "A" Relief Valve	M-360-1/ UR/ F-4	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
34256	2	18	D03-1501-0047B-PI	LPCI/ LPCI Pump Suction Line "B" Pressure Indicator	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A		N/A	N/A	No	N/A	N/A	S
34257	2	18	D03-1501-0047A-PI	LPCI/ LPCI Pump Suction Line "A" Pressure Indicator	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A		N/A	N/A	No	N/A	N/A	S
34258	2	6	D03-1502-B----P30	LPCI/ LPCI Injection Pump "B"	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	SR 1,2	Off	On	Yes	12E-3436-2/ P	MOTIVE-4160V AC Switchgear 33-1 CONTROL-125V DC Bus #3A-1, RB Dist. Panel #3		S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34259	2	6	D03-1502-A----P30	LPCI/ LPCI Injection Pump "A"	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	SR 1,2	Off	On	Yes	12E-3436-1/ P	MOTIVE-4160V AC Switchgear 33-1 CONTROL-125V DC Bus #3A-1, RB Dist. Panel #3	S
34260	2	I	D03-1501-00748V15	LPCI/ LPCI Pump Line "B" Vent Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A	Closed	Closed	No	N/A	N/A	S
34261	2	I	D03-1501-0074AV15	LPCI/ LPCI Pump Line "A" Vent Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A	Closed	Closed	No	N/A	N/A	S
34262	2	I	D03-1501-00148V15	LPCI/ LPCI Pump Line "B" Drain Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A	Closed	Closed	No	N/A	N/A	S
34263	2	I	D03-1501-0014AV15	LPCI/ LPCI Pump Line "A" Drain Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A	Closed	Closed	No	N/A	N/A	S
34264	2	18	D03-1501-00488-PI	LPCI/ LPCI Pump Discharge Line "B" Pressure Indicator	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A	N/A	N/A	No	N/A	N/A	S
34265	2	18	D03-1501-0048A-PI	LPCI/ LPCI Pump Discharge Line "A" Pressure Indicator	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A	N/A	N/A	No	N/A	N/A	S
34266	2	18	D03-1554-B-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM M/45	B	N/A	N/A	No	N/A	N/A	S
34267	2	18	D03-1554-A-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM M/45	B	N/A	N/A	No	N/A	N/A	S
34268	2	18	D03-1554-F-----PS	LPCI/ Pump "B" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM M/45	B	N/A	N/A	No	N/A	N/A	S
34269	2	18	D03-1554-E-----PS	LPCI/ Pump "A" Discharge Pressure Switch (ROB-2203-29)	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM M/45	B	N/A	N/A	No	N/A	N/A	S
34270	2	R	D03-1501-00638V25	LPCI/ LPCI Pump Discharge Line "B" Check Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A	Closed	Operbl.	No	N/A	N/A	S
34271	2	R	D03-1501-0063AV25	LPCI/ LPCI Pump Discharge Line "A" Check Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A	Closed	Operbl.	No	N/A	N/A	S
34272	2	I	D03-1501-00098V15	LPCI/ LPCI Pump Discharge Line "B" Valve	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	N/A	Open	Open	No	N/A	N/A	S
34273	2	I	D03-1501-0009AV15	LPCI/ LPCI Pump Discharge Line "A" Valve	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	N/A	Open	Open	No	N/A	N/A	S
34274	2	18	D03-1546-A-----TE	LPCI/ Heat Exchanger Inlet Line Temperature Element	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34275	2	18	D03-1546-A1-----TE	LPCI/ Heat Exchanger Inlet Line Temperature Element	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34276	2	I	D03-1501-0010AV15	LPCI/ LPCI Heat Exchanger Inlet Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	Open	Open	No	N/A	N/A	S
34277	2	21	D03-1503-A----H15	LPCI/ LPCI Heat Exchanger	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	S	N/A	N/A	No	N/A	N/A	S
34278	2	I	D03-1501-0012AV15	LPCI/ LPCI Heat Exchanger Outlet Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	Open	Open	No	N/A	N/A	S
34279	2	8A	D03-1501-0011AV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM M-N/44	SR 1	Open	Closed	Yes	12E-3440-2/ X	MOTIVE/CONTROL-MCC 38-4	S
34280	2	18	D03-1543-A----PDT	LPCI/ Heat Exchanger Differential Pressure Transmitter	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34281	2	18	D03-1501-090A-PDS	LPCI/ Heat Exchanger Differential Pressure Switch	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34282	2	18	D03-1555-A-----FY	LPCI/ Heat Exchanger Differential Pressure Converter	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34283	2	18	D03-1540-003ADPIC	LPCI/ Heat Exchanger Differential Pressure Controller	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34284	2	18	D03-1540-0006A-ZC	LPCI/ Heat Exchanger Differential Pressure Modulator	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34285	2	18	D03-1547-A-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34286	2	18	D03-1547-A1-----TE	LPCI/ Heat Exchanger Outlet Line Temperature Element	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM M-N/44	N/A	N/A	N/A	No	N/A	N/A	S
34287	2	8A	D03-1501-0032AV20	LPCI/ LPCI Header Crosstie Line Valve	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM N/45	SR 1	Open	Closed	Yes	12E-3440-3/ W	MOTIVE/CONTROL-MCC 38-4	S
34288	2	18	D03-1548-A-----FE	LPCI/ LPCI Header Line Flow Element	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S
34289	2	18	D03-1549-A-----FT	LPCI/ LPCI Header Line Flow Transmitter	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S
34290	2	18	D03-1501-0058A-FT	LPCI/ LPCI Header Line Flow Transmitter	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S
34291	2	18	D03-1501-0092AFIS	LPCI/ LPCI Header Line Flow Indicating Switch	M-360-1/ UR/ D-2	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S
34292	2	I	D03-1501-0017AV26	LPCI/ LPCI Header Line Relief Valve	M-360-1/ UR/ C-2	Reactor	476' 6"	M-N/44-45	N/A	Closed	Closed	No	N/A	N/A	S
34293	2	18	D03-1501-0051A-PS	LPCI/ LPCI Header Line Pressure Switch	M-360-1/ UR/ C-2	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S
34294	2	18	D03-1557-A----PSL	LPCI/ LPCI Header Line Pressure Switch	M-360-1/ UR/ C-2	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	SYS. REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34295	2	I	D03-1501-0043AV15	LPCI/ LPCI Drywell Spray Line Drain Valve	M-360-1/ UR/ A-3	Reactor	545' 6"	L-M/47-48	N/A		Closed	Closed	No	N/A	N/A	S
34296	2	8A	D03-1501-0027AV20	LPCI/ Drywell Spray Line Valve	M-360-1/ UR/ A-3	Reactor	545' 6"	L/47	R		Closed	Closed	No	12E-3440-3/ W	MOTIVE/CONTROL-N/A	S
34297	2	8A	D03-1501-0018AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 11	R		Closed	Closed	No	12E-3441-1/ Q	MOTIVE/CONTROL-N/A	S
34298	2	18	D03-1501-0053AFSL	LPCI/ LPCI Injection Line Flow Switch Low	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34299	2	18	D03-1550-A-----FE	LPCI/ LPCI Injection Line Flow Element	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34300	2	18	D03-1561-A-----FI	LPCI/ LPCI Injection Line Flow Indicator	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34301	2	18	D03-1551-A-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34302	2	18	D03-1551-C-----FT	LPCI/ LPCI Injection Line Flow Transmitter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34303	2	18	D03-1559-A-----FY	LPCI/ LPCI Injection Line Flow Converter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34304	2	18	D03-1559-C-----FY	LPCI/ LPCI Injection Line Flow Converter	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34305	2	18	D03-1540-0013A-SI	LPCI/ LPCI Injection Line Flow Summer	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34306	2	18	D03-1540-0012AFIS	LPCI/ LPCI Injection Line Flow Indicating Switch	M-360-1/ UR/ B-2	Reactor	476' 6"	K/44-45	N/A		N/A	N/A	No	N/A	N/A	S
34307	2	8A	D03-1501-0021AV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-2	Reactor	517' 6"	K/44-45	R		Open	Open	No	12E-3441-3/ S	MOTIVE/CONTROL-N/A	S
34308	2	I	D03-1501-0079AV15	LPCI/ LPCI Injection Line Drain Valve	M-360-1/ UR/ B-2	Reactor	517' 6"	K/44-45	N/A		Closed	Closed	No	N/A	N/A	S
34309	2	8A	D03-1501-0038AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-3441-1/ Q	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC TB Main Bus #3A-1	S
34310	2	I	D03-1501-0087AV15	LPCI/ LPCI Injection Line Drain Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 2	N/A		Closed	Closed	No	N/A	N/A	S
34311	2	8A	D03-1501-0020AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-3441-2/ R	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC TB Main Bus #3A-1	S
34312	2	8A	D03-1501-0022AV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-3	Reactor	476' 6"	TORUS BAY 2	R		Closed	Closed	No	12E-3437A/ S	MOTIVE/CONTROL-N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Sort Criteria: Line Number
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Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	<-- OP. Normal	ST. --> Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
34313	2	8A	D03-1501-0013AV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-360-1/ UR/ C-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Open	Operbl.	Yes	12E-3440-2/ X	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC Bus #3A-1, 24/48V DC Dist. Panel #2B	S
34314	2	I	D03-1501-0064BV15	LPCI/ LPCI Minimum Flow Line "B" Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM N/45	N/A		Open	Open	No	N/A	N/A	S
34315	2	I	D03-1501-0064AV15	LPCI/ LPCI Minimum Flow Line "A" Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM N/45	N/A		Open	Open	No	N/A	N/A	S
34316	2	R	D03-1501-0065BV15	LPCI/ LPCI Minimum Flow Line "B" Check Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
34317	2	R	D03-1501-0065AV15	LPCI/ LPCI Minimum Flow Line "A" Check Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM N/45	N/A		Closed	Operbl.	No	N/A	N/A	S
34318	2	10	D03-5746-A----H15	LPCI/ LPCI Emergency Room Air Cooler	M-355/ PC/ C-6	Reactor	476' 6"	SE C.RM M/44	SR	1	Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 38-1 COOLING-Service Water System	S
34319	2	I	D03-1501-0036AV15	CCSW/ CCSW Pump Suction Line "A" Valve	M-360-2/ X/ B-2	Turbine	495' 0"	D/49	N/A		Open	Open	No	N/A	N/A	S
34320	2	I	D03-1501-0036BV15	CCSW/ CCSW Pump Suction Line "B" Valve	M-360-2/ X/ C-2	Turbine	495' 0"	VAULT RM D/50	N/A		Open	Open	No	N/A	N/A	S
34321	2	I	D03-1599-0017AV15	CCSW/ CCSW Pump Suction Instrument Line "A" Valve	M-360-2/ X/ B-2	Turbine	495' 0"	D/49	N/A		Closed	Closed	No	N/A	N/A	S
34322	2	I	D03-1599-0017BV15	CCSW/ CCSW Pump Suction Instrument Line "B" Valve	M-360-2/ X/ C-2	Turbine	495' 0"	VAULT RM D/50	N/A		Closed	Closed	No	N/A	N/A	S
34323	2	5	D03-1501-0044AP30	CCSW/ CCSW Pump "A"	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	SR	1,2	Off	On	Yes	12E-3435-1/ S	MOTIVE-4160V AC Switchgear 33 CONTROL-125V DC TB Main Bus #3A-1	S
34324	2	5	D03-1501-0044BP30	CCSW/ CCSW Pump "B"	M-360-2/ X/ C-3	Turbine	495' 0"	VAULT RM D/50	SR	1,2	Off	On	Yes	12E-3435-1/ S	MOTIVE-4160V AC Switchgear 33 CONTROL-125V DC TB Main Bus #3A-1	S
34325	2	I	D03-1599-0018AV15	CCSW/ CCSW Pump "A" Vent Valve	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	N/A		Closed	Closed	No	N/A	N/A	S
34326	2	I	D03-1599-0018BV15	CCSW/ CCSW Pump "B" Vent Valve	M-360-2/ X/ C-3	Turbine	495' 0"	VAULT RM D/50	N/A		Closed	Closed	No	N/A	N/A	S
34327	2	I	D03-1599-0021AV15	CCSW/ CCSW Pump "A" Drain Valve	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	N/A		Closed	Closed	No	N/A	N/A	S
34328	2	I	D03-1599-0021BV15	CCSW/ CCSW Pump "B" Drain Valve	M-360-2/ X/ C-3	Turbine	495' 0"	VAULT RM D/50	N/A		Closed	Closed	No	N/A	N/A	S
34329	2	I	D03-3999-0337-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-360-2/ X/ B-4	Turbine	495' 0"	D/50-51	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34330	2	I	D03-3999-0336-V25	SERVICE WATER/ Pump Keepfill Line Check Valve	M-360-2/ X/ B-4	Turbine	495' 0"	D/50-51	N/A	Closed	Closed	No	N/A	N/A	S
34331	2	I	D03-3999-0639-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-360-2/ X/ B-5	Turbine	495' 0"	D/50	N/A	Open	Open	No	N/A	N/A	S
34332	2	I	D03-3999-0651-V15	SERVICE WATER/ DG Pump Keepfill Line Drain Valve	M-360-2/ X/ B-5	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
34333	2	I	D03-3999-0640-V25	SERVICE WATER/ DG Pump Keepfill Line Check Valve	M-360-2/ X/ B-5	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
34334	2	18	D03-1501-0059A1PT	CCSW/ CCSW Pump "A" Discharge Pressure Transmitter	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	N/A	N/A	N/A	No	N/A	N/A	S
34335	2	18	D03-1501-0059B1PT	CCSW/ CCSW Pump "B" Discharge Pressure Transmitter	M-360-2/ X/ C-3	Turbine	495' 0"	D/50	N/A	N/A	N/A	No	N/A	N/A	S
34336	2	18	D03-1501-0059A-PI	CCSW/ CCSW Pump "A" Discharge Pressure Indicator	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	N/A	N/A	N/A	No	N/A	N/A	S
34337	2	18	D03-1501-0059B-PI	CCSW/ CCSW Pump "B" Discharge Pressure Indicator	M-360-2/ X/ C-3	Turbine	495' 0"	D/50	N/A	N/A	N/A	No	N/A	N/A	S
34338	2	I	D03-1599-0034BV15	CCSW/ CCSW Pump Cooler "A" and "B" Suction Line Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34339	2	I	D03-1599-0080BV15	CCSW/ CCSW Pump Cooler "A" and "B" 4-Way Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S
34340	2	I	D03-1599-0081BV15	CCSW/ Pump Cooler "A" and "B" Inlet Instrument Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Closed	Closed	No	N/A	N/A	S
34341	2	10	D03-5700-0030AH15	CCSW/ CCSU Pump Cooler "A"	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	S	N/A	N/A	No	N/A	N/A	S
34342	2	21	D03-5700-30A1-F05	CCSW/ CCSW Pump Cooler "A" Fan (ROB-Pump Cooler)	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3676B/ T	MOTIVE-MCC 38-3 CONTROL-MCC 38-3, 125V DC TB Main Bus #3A-1	S
34343	2	21	D03-5700-30A2-F05	CCSW/ CCSW Pump Cooler "A" Fan (ROB-Pump Cooler)	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3676B/ T	MOTIVE-MCC 38-3 CONTROL-MCC 38-3, 125V DC TB Main Bus #3A-1	S
34344	2	10	D03-5700-0030BH15	CCSW/ CCSW Pump Cooler "B"	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	S	N/A	N/A	No	N/A	N/A	S
34345	2	21	D03-5700-30B1-F05	CCSW/ CCSW Pump Cooler "B" Fan (ROB-Pump Cooler)	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3676B/ T	MOTIVE-MCC 38-3 CONTROL-MCC 38-3, 125V DC TB Main Bus #3A-1	S
34346	2	21	D03-5700-30B2-F05	CCSW/ CCSW Pump Cooler "B" Fan (ROB-Pump Cooler)	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	BR 1	Off	On	Yes	12E-3676B/ T	MOTIVE-MCC 38-3 CONTROL-MCC 38-3, 125V DC TB Main Bus #3A-1	S
34347	2	I	D03-1599-0035BV15	CCSW/ CCSW Pump Cooler "A" Drip Pan Drain Line Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)	
34348	2	I	D03-1599-00368V15	CCSW/ CCSW Pump Cooler "B" Drip Pan Drain Line Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S	
34349	2	I	D03-1599-00378V15	CCSW/ CCSW Pump Cooler "A" Return Line Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S	
34350	2	I	D03-1599-00388V15	CCSW/ CCSW Pump Cooler "B" Return Line Valve	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S	
34351	2	I	D03-1599-00828V15	CCSW/ Pump Cooler "A" and "B" Outlet Instrument Valve	M-360-2/ X/ D-2	Turbine	495' 0"	VAULT RM D/50	N/A	Closed	Closed	No	N/A	N/A	S	
34352	2	I	D03-1535-----M01	CCSW/ Pump Cooler "A" and "B" Restricting Orifice	M-360-2/ X/ D-2	Turbine	495' 0"	VAULT RM D/50	N/A	N/A	N/A	No	N/A	N/A	S	
34353	2	I	D03-1534-----M01	CCSW/ Pump Cooler "A" and "B" Restricting Orifice	M-360-2/ X/ D-2	Turbine	495' 0"	VAULT RM D/50	N/A	N/A	N/A	No	N/A	N/A	S	
34354	2	I	D03-1599-00338V15	CCSW/ CCSW Pump Cooler "A" and "B" Return Line Valve	M-360-2/ X/ D-2	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S	
34355	2	R	D03-1501-0001AV25	CCSW/ CCSW Pump "A" Discharge Line Check Valve	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	N/A	Open	Operbl.	No	N/A	N/A	S	
34356	2	R	D03-1501-0001BV25	CCSW/ CCSW Pump "B" Discharge Line Check Valve	M-360-2/ X/ C-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Operbl.	No	N/A	N/A	S	
34357	2	I	D03-1501-0002AV15	CCSW/ CCSW Pump "A" Discharge Line Valve	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	N/A	Open	Open	No	N/A	N/A	S	
34358	2	I	D03-1501-0002BV15	CCSW/ CCSW Pump "B" Discharge Line Valve	M-360-2/ X/ C-3	Turbine	495' 0"	VAULT RM D/50	N/A	Open	Open	No	N/A	N/A	S	
34359	2	I	D03-1599-0022AV15	CCSW/ CCSW Pump "A" Discharge Line Drain Valve	M-360-2/ X/ B-4	Turbine	495' 0"	D/49	N/A	Closed	Closed	No	N/A	N/A	S	
34360	2	I	D03-1599-0022BV15	CCSW/ CCSW Pump "B" Discharge Line Drain Valve	M-360-2/ X/ C-4	Turbine	495' 0"	VAULT RM D/50	N/A	Closed	Closed	No	N/A	N/A	S	
34361	2	18	D03-1541-----A-FE	CCSW/ CCSW Pump "A" and "B" Discharge Flow Element	M-360-2/ X/ B-4	Reactor	476' 6"	M-N/44-45	N/A	N/A	N/A	No	N/A	N/A	S	
34362	2	18	D03-1556-----A-FT	CCSW/ Pump "A" and "B" Flow Transmitter (ROB-2203-29)	M-360-2/ X/ B-3	Reactor	476' 6"	SE C.RM M/45	B	N/A	N/A	No	N/A	N/A	S	
34363	2	18	D03-1556-----C-FT	CCSW/ Pump "A" and "B" Flow Transmitter (ROB-2203-29)	M-360-2/ X/ B-3	Reactor	476' 6"	SE C.RM M/45	B	N/A	N/A	No	N/A	N/A	S	
34364	2	18	D03-1558-----A-FY	CCSW/ Pump "A" and "B" Flow Converter (ROB-903-19)	M-360-2/ X/ B-3	Turbine	534' 0"	C. RM PL 903-19 B		N/A	N/A	No	N/A	N/A	S	
34365	2	18	D03-1558-----C-FY	CCSW/ Pump "A" and "B" Flow Converter (ROB-903-19)	M-360-2/ X/ B-3	Turbine	534' 0"	C. RM PL 903-19 B		N/A	N/A	No	N/A	N/A	S	

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
34366	2	18	D03-1560-----A-FI	CCSW/ Pump "A" and "B" Flow Indicator (ROB-903-3)	M-360-2/ X/ B-3	Turbine	534' 0"	C. RM PNL 903-3 BR		Operbl.	Operbl.	Yes	12E-7827/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
34367	2	I	D03-1501-0004AV15	CCSW/ CCSW Pump "A" and "B" Discharge Header Valve	M-360-2/ X/ A-4	Reactor	476' 6"	SW C.RM M/44	N/A	Open	Open	No	N/A	N/A	S
34368	2	I	D03-1501-0077AV15	CCSW/ CCSW Heat Exchanger Inlet Instrument Line Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SW C.RM M/44	N/A	Closed	Closed	No	N/A	N/A	S
34369	2	18	D03-1552-A-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-360-1/ UR/ E-2	Reactor	476' 6"	SW C.RM M/44	N/A	N/A	N/A	No	N/A	N/A	S
34370	2	18	D03-1552-A1-----TE	CCSW/ CCSW Heat Exchanger Inlet Temperature Element	M-360-1/ UR/ E-2	Reactor	476' 6"	SW C.RM M/44	N/A	N/A	N/A	No	N/A	N/A	S
34371	2	I	D03-1501-0078AV15	CCSW/ CCSW Heat Exchanger Outlet Instrument Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SW C.RM M/44	N/A	Closed	Closed	No	N/A	N/A	S
34372	2	18	D03-1545-----A-TE	CCSW/ CCSW Heat Exchanger Outlet Temperature Element	M-360-1/ UR/ F-2	Reactor	476' 6"	SW C.RM M/44	N/A	N/A	N/A	No	N/A	N/A	S
34373	2	8A	D03-1501-0003AV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-360-1/ UR/ F-8	Reactor	476' 6"	SE C.RM M/44	SR 1,2	Closed	Operbl.	Yes	12E-3440-1/ Y	MOTIVE-MCC 38-1 CONTROL-MCC 38-1, 125V DC Bus #3A-1, 120V AC Essen. Bus 903-50	S
35001	1	I	D03-3932-0500-V15	SERVICE WATER/ DG Cooling Water Pump Suction Line Valve	M-355/ PC/ B-10	C. House	517' 6"	A/5	N/A	Open	Open	No	N/A	N/A	S
35002	1	I	D03-3932-0322-V15	SERVICE WATER/ DG Cooling Water Pump Tie Line Valve	M-355/ PC/ B-10	C. House	517' 6"	A/5	N/A	Closed	Closed	No	N/A	N/A	S
35003	1	I	D03-3999-0375-V15	SERVICE WATER/ DG Cooling Water Pump Suction Test Valve	M-355/ PC/ B-10	C. House	517' 6"	A/5	N/A	Closed	Closed	No	N/A	N/A	S
35004	1	5	D03-3903-----P30	SERVICE WATER/ Diesel Generator Cooling Water Pump	M-355/ PC/ B-10	C. House	490' 8"	A/5	SR	Off	On	Yes	12E-3350B/ AK	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
35005	1	R	D03-3930-0501-V25	SERVICE WATER/ DG Cooling Pump Discharge Check Valve	M-355/ PC/ B-10	C. House	517' 6"	A/5	N/A	Closed	Operbl.	No	N/A	N/A	S
35006	1	I	D03-3930-0500-V15	SERVICE WATER/ DG Cooling Pump Discharge Line Valve	M-355/ PC/ B-10	C. House	517' 6"	A/5	N/A	Open	Open	No	N/A	N/A	S
35007	1	I	D03-3999-0087-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-355/ PC/ B-10	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
35008	1	I	D03-3999-0088-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-355/ PC/ B-9	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
35009	1	I	D03-3941-0898--FE	SERVICE WATER/ DG Cooling Pump Discharge Flow Element	M-355/ PC/ B-9	Turbine	495' 0"	D/50	N/A	N/A	N/A	No	N/A	N/A	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
35010	1	I	D03-3999-0638-V15	SERVICE WATER/ DG Cooling Pump Keepfill Line Valve	M-355/ PC/ B-9	Turbine	495' 0"	D/50	N/A	Open	Open	No	N/A	N/A	S
35011	1	I	D03-3999-0089-V15	SERVICE WATER/ DG Cooling Pump Discharge Drain Valve	M-355/ PC/ B-8	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
35012	1	I	D03-3933-0500-V15	SERVICE WATER/ DG Cooling Pump Discharge Line Valve	M-355/ PC/ B-8	Turbine	495' 0"	D/50	N/A	Closed	Closed	No	N/A	N/A	S
35013	1	I	D03-3999-0090-V15	SERVICE WATER/ Diesel Generator Cooling Drain Valve	M-355/ PC/ C-8	Turbine	495' 0"	D/51	N/A	Closed	Closed	No	N/A	N/A	S
35014	1	I	D03-3930-0525-V18	SERVICE WATER/ Diesel Generator Cooling 3-Way Valve	M-355/ PC/ C-8	Turbine	495' 0"	D/51	N/A	Open	Open	No	N/A	N/A	S
35015	1	I	D03-3931-0525-V18	SERVICE WATER/ Diesel Generator Cooling 3-Way Valve	M-355/ PC/ C-8	Turbine	495' 0"	D/51	N/A	Open	Open	No	N/A	N/A	S
35016	1	17	D03-6601-----G05	DIESEL GENERATOR/ Diesel Engine Driven Generator	M-518-3/ C/ C-3	Turbine	517' 6"	DG RM3 G-H/55	SR	Off	On	Yes	M-41-2/ Q M-173/ AF M-974/ F 12E-3350A-1/ AC	MOTIVE-Diesel Fuel Oil, S Start Up Air, DG Ventilation CONTROL-125V DC Bus #38-1	S
35017	1	21	D03-5201-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Tank	M-41-2/ Q/ A-7	N/A	BGrade	N/A	S	N/A	N/A	No	N/A	N/A	S
35018	1	I	D03-5201B0500-V15	DIESEL GENERATOR/ Fuel Oil Tank Suction Line Valve	M-41-2/ Q/ B-6	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35019	1	5	D03-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	M-41-2/ Q/ B-6	Turbine	517' 6"	DG RM3 G-H/55	SR	Off	Operbl.	Yes	12E-3350B/ AK	MOTIVE/CONTROL-MCC 39-2	S
35020	1	R	D03-5202B0501-V25	DIESEL GENERATOR/ Transfer Pump Relief Line Check Valve	M-41-2/ Q/ B-6	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Operbl.	No	N/A	N/A	S
35021	1	R	D03-5202B0500-V26	DIESEL GENERATOR/ Transfer Pump Relief Valve	M-41-2/ Q/ B-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Operbl.	No	N/A	N/A	S
35022	1	I	D03-5202-0500-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ B-6	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35023	1	R	D03-5202A0501-V25	DIESEL GENERATOR/ Transfer Pump Discharge Check Valve	M-41-2/ Q/ B-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Operbl.	No	N/A	N/A	S
35024	1	I	D03-5202A0500-V15	DIESEL GENERATOR/ Transfer Pump Discharge Line Valve	M-41-2/ Q/ B-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35025	1	I	D03-5299-0209-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ B-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35026	1	I	D03-5299-0208-V15	DIESEL GENERATOR/ Transfer Pump Discharge Drain Valve	M-41-2/ Q/ B-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern: CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST.	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
35027	1	18	D03-5241-0001--PI	DIESEL GENERATOR/ Transfer Pump Pressure Indicator	M-41-2/ Q/ A-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		N/A	N/A	No	N/A	N/A	S
35028	1	I	D03-5299-0212-V15	DIESEL GENERATOR/ Fuel Oil Day Tank Supply Line Valve	M-41-2/ Q/ C-5	Turbine	528' 3"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35029	1	I	D03-5202C0500-V27	DIESEL GENERATOR/ Fuel Oil Day Tank Supply Line Valve	M-41-2/ Q/ C-5	Turbine	528' 3"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35030	1	I	D03-5299-0301-V15	DIESEL GENERATOR/ Fuel Oil Crosstie Line Valve	M-41-2/ Q/ D-6	Turbine	528' 3"	DG RM3 G-H/55	N/A		Closed	Closed	No	N/A	N/A	S
35031	1	21	D03-5202-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Day Tank	M-41-2/ Q/ C-5	Turbine	528' 3"	DG RM3 G-H/55	S 5		N/A	N/A	No	N/A	N/A	S
35032	1	18	D03-5241-0003--LS	DIESEL GENERATOR/ Fuel Oil Day Tank Level Switch	M-41-2/ Q/ C-6	Turbine	528' 3"	DG RM3 G-H/55	BR		N/A	N/A	No	N/A	N/A	S
35033	1	I	D03-5206-0500-V15	DIESEL GENERATOR/ Fuel Oil Day Tank Supply Line Valve	M-41-2/ Q/ C-5	Turbine	528' 3"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35034	1	I	D03-5299-0205-V15	DIESEL GENERATOR/ Fuel Day Tank Supply Line Drain Valve	M-41-2/ Q/ C-5	Turbine	528' 3"	DG RM3 G-H/55	N/A		Closed	Closed	No	N/A	N/A	S
35035	1	I	D03-6699-121--V15	DIESEL GENERATOR/ Supply Line Shutoff Valve	M-518-3/ C/ C-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35036	1	I	D03-6663-----F10	DIESEL GENERATOR/ Fuel Day Tank Supply Line Strainer	M-518-3/ C/ C-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		N/A	N/A	No	N/A	N/A	S
35037	1	5	D03-6664-----P30	DIESEL GENERATOR/ Fuel Oil Engine Driven Supply Pump	M-518-3/ C/ C-4	Turbine	517' 6"	DG RM3 G-H/55	B		Off	On	No	N/A	N/A	S
35038	1	5	D03-6665-----P30	DIESEL GENERATOR/ Fuel Oil Priming Pump	M-518-3/ C/ C-6	Turbine	517' 6"	DG RM3 G-H/55	BR		Off	On	Yes	12E-3350A-1/ AC TB Res Bus #38-1	MOTIVE/CONTROL-125V DC	S
35039	1	R	D03-6699-122--V25	DIESEL GENERATOR/ Fuel Oil Priming Pump Check Valve	M-518-3/ C/ C-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		Closed	Operbl.	No	N/A	N/A	S
35040	1	R	D03-6699-123--V16	DIESEL GENERATOR/ Fuel Oil Pressure Regulating Valve	M-518-3/ C/ D-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Operbl.	No	N/A	N/A	S
35041	1	I	D03-6699-124--V15	DIESEL GENERATOR/ Fuel Oil Instrument Line Valve	M-518-3/ C/ E-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35042	1	I	D03-6641-0011--PI	DIESEL GENERATOR/ Fuel Oil Pressure Indicator	M-518-3/ C/ E-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		N/A	N/A	No	N/A	N/A	S
35043	1	R	D03-6699-125A-V16	DIESEL GENERATOR/ Fuel Bypass Pressure Regulating Valve	M-518-3/ C/ D-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Operbl.	No	N/A	N/A	S
35044	1	R	D03-6699-125B-V16	DIESEL GENERATOR/ Fuel Bypass Pressure Regulating Valve	M-518-3/ C/ D-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Operbl.	No	N/A	N/A	S

SEISMIC QUALIFICATION FACILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Program File Name & Version: SSEM 2.2

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
35045	1	I	D03-6666-----F10	DIESEL GENERATOR/ Fuel Day Tank Return Line Strainer	M-518-3/ C/ D-4	Turbine	517' 6"	DG RM3 G-H/55	N/A	N/A	N/A	No	N/A	N/A	S
35046	1	R	D03-6699-126--V25	DIESEL GENERATOR/ Fuel Oil Return Line Check Valve	M-518-3/ C/ C-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Operbl.	No	N/A	N/A	S
35047	1	12	D03-4600-B----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	M-173/ AF/ D-3	Turbine	528' 3"	DG RM3 G-H/55	S 6	N/A	N/A	No	N/A	N/A	S
35048	1	12	D03-4600-C----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	M-173/ AF/ D-4	Turbine	528' 3"	DG RM3 G-H/55	S 6	N/A	N/A	No	N/A	N/A	S
35049	1	12	D03-4600-G----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	M-173/ AF/ D-5	Turbine	528' 3"	DG RM3 G-H/55	S 6	N/A	N/A	No	N/A	N/A	S
35050	1	12	D03-4600-H----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	M-173/ AF/ D-6	Turbine	528' 3"	DG RM3 G-H/55	S 6	N/A	N/A	No	N/A	N/A	S
35051	1	I	D03-4699-0184-V15	DIESEL GENERATOR/ Air Receiver Unit "A1" Drain Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35052	1	I	D03-4699-0185-V15	DIESEL GENERATOR/ Air Receiver Unit "A2" Drain Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35053	1	I	D03-4699-0186-V15	DIESEL GENERATOR/ Air Receiver Unit "B1" Drain Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35054	1	I	D03-4699-0187-V15	DIESEL GENERATOR/ Air Receiver Unit "B2" Drain Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35055	1	I	D03-4699-0188-V15	DIESEL GENERATOR/ Air Receiver Unit "A1" Drain Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35056	1	I	D03-4699-0189-V15	DIESEL GENERATOR/ Air Receiver Unit "A2" Drain Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35057	1	I	D03-4699-0190-V15	DIESEL GENERATOR/ Air Receiver Unit "B1" Drain Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35058	1	I	D03-4699-0191-V15	DIESEL GENERATOR/ Air Receiver Unit "B2" Drain Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35059	1	I	D03-4699-0306-V15	DIESEL GENERATOR/ Air Receiver "A1" Instrument Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35060	1	I	D03-4699-0307-V15	DIESEL GENERATOR/ Air Receiver "A2" Instrument Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35061	1	I	D03-4699-0308-V15	DIESEL GENERATOR/ Air Receiver "B1" Instrument Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35062	1	I	D03-4699-0309-V15	DIESEL GENERATOR/ Air Receiver "B2" Instrument Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION FACILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
35063	1	R	D03-4699-0313AV26	DIESEL GENERATOR/ Air Receiver "A1" Relief Valve	M-173/ AF/ E-3	Turbine	517' 6"	DG RM3 G-H/55-	N/A		Open	Operbl.	No	N/A	N/A	S
35064	1	R	D03-4699-0314AV26	DIESEL GENERATOR/ Air Receiver "A2" Relief Valve	M-173/ AF/ E-4	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Operbl.	No	N/A	N/A	S
35065	1	R	D03-4699-0313BV26	DIESEL GENERATOR/ Air Receiver "B1" Relief Valve	M-173/ AF/ E-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Operbl.	No	N/A	N/A	S
35066	1	R	D03-4699-0314BV26	DIESEL GENERATOR/ Air Receiver "B2" Relief Valve	M-173/ AF/ E-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Operbl.	No	N/A	N/A	S
35067	1	I	D03-4699-0311AV25	DIESEL GENERATOR/ Air Receivers "A" Supply Check Valve	M-173/ AF/ F-4	Turbine	517' 6"	DG RM3 G-H/55	N/A		Closed	Closed	No	N/A	N/A	S
35068	1	I	D03-4699-0311BV25	DIESEL GENERATOR/ Air Receivers "B" Supply Check Valve	M-173/ AF/ F-6	Turbine	517' 6"	DG RM3 G-H/55	N/A		Closed	Closed	No	N/A	N/A	S
35069	1	R	D03-4699-0312-V25	DIESEL GENERATOR/ Air Receivers "A" Outlet Check Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Closed	Operbl.	No	N/A	N/A	S
35070	1	R	D03-4699-0316-V25	DIESEL GENERATOR/ Air Receivers "B" Outlet Check Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Closed	Operbl.	No	N/A	N/A	S
35071	1	I	D03-4699-0192-V15	DIESEL GENERATOR/ Air Receivers "A" Outlet Line Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35072	1	I	D03-4699-0193-V15	DIESEL GENERATOR/ Air Receivers "B" Outlet Line Valve	M-173/ AF/ C-5	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35073	1	I	D03-4699-0194-V15	DIESEL GENERATOR/ Air Filter "A" Inlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35074	1	I	D03-4600-E----F10	DIESEL GENERATOR/ Air Start Filter "A"	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		N/A	N/A	No	N/A	N/A	S
35075	1	I	D03-4699-0195-V15	DIESEL GENERATOR/ Air Filter "A" Outlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35076	1	I	D03-4699-0196-V15	DIESEL GENERATOR/ Air Filter "B" Inlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35077	1	I	D03-4600-D----F10	DIESEL GENERATOR/ Air Start Filter "B"	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		N/A	N/A	No	N/A	N/A	S
35078	1	I	D03-4699-0197-V15	DIESEL GENERATOR/ Air Filter "B" Outlet Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S
35079	1	I	D03-4699-0198-V15	DIESEL GENERATOR/ Air Filter Bypass Line Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		Closed	Closed	No	N/A	N/A	S
35080	1	I	D03-4699-0199-V15	DIESEL GENERATOR/ Air Receiver Outlet Instrument Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A		Open	Open	No	N/A	N/A	S

SEISMIC QUALIFICATION FACILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
35081	1	18	D03-4641-0006-DPS	DIESEL GENERATOR/ Air Receiver Diff. Pressure Switch	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A	N/A	N/A	No	N/A	N/A	S
35082	1	I	D03-4699-0200-V15	DIESEL GENERATOR/ Air Receiver Outlet Instrument Valve	M-173/ AF/ D-7	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35083	1	R	D03-4699-0315-V10	DIESEL GENERATOR/ Air Start Pressure Regulating Valve	M-173/ AF/ A-9	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Operbl.	No	N/A	N/A	S
35084	1	I	D03-6699-0100-V15	DIESEL GENERATOR/ Air Start Strainer Blowdown Valve	M-173/ AF/ A-9	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35085	1	I	D03-6699-0102-V15	DIESEL GENERATOR/ Air Start Cutoff Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35086	1	R	D03-6699-0103-V27	DIESEL GENERATOR/ Air Start Solenoid Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	R	Deenerg	Energ	Yes	12E-3350A-1/ AC	MOTIVE/CONTROL-125V DC TB Res Bus #38-1	S
35087	1	R	D03-6699-0104-V25	DIESEL GENERATOR/ Air Start Check Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Operbl.	No	N/A	N/A	S
35088	1	R	D03-6699-0105-V05	DIESEL GENERATOR/ Air Start Air Operated Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Operbl.	No	N/A	N/A	S
35089	1	I	D03-6699-0106-M01	DIESEL GENERATOR/ Air Start Lubricator	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	N/A	N/A	No	N/A	N/A	S
35090	1	R	D03-6699-0107-M01	DIESEL GENERATOR/ Air Start Lower Air Driven Motor	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Off	On	No	N/A	N/A	S
35091	1	R	D03-6699-0108-M01	DIESEL GENERATOR/ Air Start Upper Air Driven Motor	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Off	On	No	N/A	N/A	S
35092	1	I	D03-6699-0133-V15	DIESEL GENERATOR/ Air Start Instrument Line Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Open	Open	No	N/A	N/A	S
35093	1	I	D03-6699-0134-V15	DIESEL GENERATOR/ Air Start Vent Valve	M-173/ AF/ A-10	Turbine	517' 6"	DG RM3 G-H/55	N/A	Closed	Closed	No	N/A	N/A	S
35094	1	I	D03-9472-0050-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ C-8	Turbine	538' 0"	H/54-55	N/A	Open	Open	No	N/A	N/A	S
35095	1	10	D03-5772-0100-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ C-6	Turbine	538' 0"	H/54-55	S	Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
35096	1	I	D03-9472-0029-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Fire Damper	M-974/ F/ C-6	Turbine	517' 6"	G-H/54-55	N/A	Open	Open	No	N/A	N/A	S
35097	1	9	D03-5790------F10	DIESEL GENERATOR/ Room Ventilation Fan	M-974/ F/ C-5	Turbine	517' 6"	DG RM3 G-H/55	SR	Off	On	Yes	12E-3350B/ AK	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
35098	1	10	D03-5772-0101-D05	DIESEL GENERATOR/ Ventilation Fan Outlet Damper	M-974/ F/ C-5	Turbine	517' 6"	DG RM3 G-H/55	S	Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
35099	1	88	D03-5790-0003-V10	DIESEL GENERATOR/ Vent. Fan Damper Solenoid Operator	M-974/ F/ C-7	Turbine	538' 0"	H/54-55	S	Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
35100	1	88	D03-5790--EP2-V27	DIESEL GENERATOR/ Room Vent. Fan Dampers Solenoid Valve	M-974/ F/ D-7	Turbine	517' 6"	DG PNL 2253-47	SR	Deenerg	Energy	Yes	12E-2595/ L	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
35101	1	I	D03-9472-0026-D05	DIESEL GENERATOR/ Normal Ventilation Duct Fire Damper	M-974/ F/ C-5	Turbine	517' 6"	G-H/54-55	N/A	Open	Open	No	N/A	N/A	S
35102	1	10	D03-5772-0102-D05	DIESEL GENERATOR/ Normal Ventilation Duct Damper	M-974/ F/ C-5	Turbine	517' 6"	G/54	S	Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
35103	1	88	D03-5790--EP3-V27	DIESEL GENERATOR/ Normal Vent. Damper Solenoid Valve	M-974/ F/ D-7	Turbine	517' 6"	DG PNL 2253-47	SR	Deenerg	Energy	Yes	12E-2595/ L	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Main Bus #3A-2	S
38001	3	1	D03-9802-A----P06	24/48V DC/ Distribution Panel #3A	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	S	Energy	Energy	Yes	12E-3324-1/ N	MOTIVE-24/48V DC Battery #3A CONTROL-N/A	S
38002	3	15	D03-9802-A----B04	24/48V DC/ Battery #3A	12E-3324-1/ N	Turbine	551' 0"	B RM3 G-H/55	S 6	Charged	Charged	No	N/A	N/A	S
38003	3	1	D03-9802A-A21-B11	24/48V DC/ Breaker to Battery Charger #3A (+)	12E-3324-1/ N	Turbine	551' 0"	BC RM3 G-H/55	B	Closed	Closed	N/A	N/A	N/A	S
38004	3	1	D03-9802A-A22-B11	24/48V DC/ Breaker to Battery Charger #3A (-)	12E-3324-1/ N	Turbine	551' 0"	BC RM3 G-H/55	B	Closed	Closed	N/A	N/A	N/A	S
38005	3	16	D03-9802-3APOS805	24/48V DC/ Battery Charger #3A (+)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR	Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
38006	3	16	D03-9802-3ANEG805	24/48V DC/ Battery Charger #3A (-)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR	Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
38007	3	1	D03-9802-B----P06	24/48V DC/ Distribution Panel #3B	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	S	Energy	Energy	Yes	12E-3324-1/ N	MOTIVE-24/48V DC Battery #3B CONTROL-N/A	S
38008	3	15	D03-9802-B----B04	24/48V DC/ Battery #3B	12E-3324-1/ N	Turbine	551' 0"	B RM3 G-H/55	S 6	Charged	Charged	No	N/A	N/A	S
38009	3	1	D03-9802B-A21-B11	24/48V DC/ Breaker to Battery Charger #3B (+)	12E-3324-1/ N	Turbine	551' 0"	BC RM3 G-H/55	B	Closed	Closed	N/A	N/A	N/A	S
38010	3	1	D03-9802B-A22-B11	24/48V DC/ Breaker to Battery Charger #3B (-)	12E-3324-1/ N	Turbine	551' 0"	BC RM3 G-H/55	B	Closed	Closed	N/A	N/A	N/A	S
38011	3	16	D03-9802-3BPOS805	24/48V DC/ Battery Charger #3B (+)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR	Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
38012	3	16	D03-9802-3BNEG805	24/48V DC/ Battery Charger #3B (-)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR	Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
38013	1	1	D03-830381----P06	125V DC/ TB Res Bus #38-1 (ROB-TB Res Bus #38)	12E-3322B/ C/ D-5	Turbine	538' 0"	BC RM3 G-H/55	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Main Bus #2A-1 CONTROL-N/A	S
38014	1	1	D02-8302A1----P06	125V DC/ TB Main Bus #2A-1 (ROB-Main Bus #2A)	12E-3322B/ C/ E-7	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Battery Bus #2 CONTROL-N/A	S
38015	1	1	D02-83125-2---P06	125V DC/ TB Battery Bus #2, Feed to Main Bus #2A-1	12E-3322B/ C/ E-7	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC Battery #2 CONTROL-N/A	S
38016	1	15	D02-8300--BC--B04	125V DC/ Battery #2, Feed to TB Battery Bus #2	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	S	6	Charged	Charged	No	N/A	N/A	S
38017	1	16	D02-8300--2---B05	125V DC/ Battery Charger #2	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389D/ E	MOTIVE/CONTROL-MCC 29-2	S
38018	1	16	D02-8300--2A--B05	125V DC/ Battery Charger #2A	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389D/ E	MOTIVE/CONTROL-MCC 28-2	S
38019	2	1	D03-83125-----P06	125V DC/ RB Distribution Panel #3	12E-3322B/ C/ B-5	Reactor	570' 0"	N/46	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Main Bus #3A CONTROL-N/A	S
38020	2	1	D03-8303A1-2---P06	125V DC/ TB Main Bus #3A-1 (ROB-Main Bus #3A)	12E-3322B/ C/ E-4	Turbine	538' 0"	G-H/54-55	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Battery Bus #3 CONTROL-N/A	S
38021	2	1	D03-83125-3---P06	125V DC/ TB Battery Bus #3, Feed to Main Bus #3A	12E-3322B/ C/ E-4	Turbine	538' 0"	G-H/54-55	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC Battery #3 CONTROL-N/A	S
38022	2	15	D03-8300--BC--B04	125V DC/ Battery #3, Feed to TB Battery Bus #3	12E-3322B/ C/ F-4	Turbine	551' 0"	B RM3 G-H/55	S	6	Charged	Charged	No	N/A	N/A	S
38023	2	16	D03-8300--3---B05	125V DC/ Battery Charger #3	12E-3322B/ C/ F-4	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3974/ CD	MOTIVE/CONTROL-MCC 39-2	S
38024	2	16	D03-8300--3A--B05	125V DC/ Battery Charger #3A	12E-3322B/ C/ F-4	Turbine	538' 0"	G-H/54-55	SR		Operbl.	Operbl.	Yes	12E-3974A/ B	MOTIVE/CONTROL-MCC 38-2	S
38025	1	1	D03-8303A-B01-M05	250V DC/ Breaker to Turbine Auxiliary Pump (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38026	1	1	D03-8303A-C01-M05	250V DC/ Breaker to Turbine Oil Pump (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38027	1	1	D03-8303A-C02-M05	250V DC/ Breaker to Gland Seal Cond. Fan (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38028	1	1	D03-8303A-D02-M05	250V DC/ Breaker to Hot. Condensate Pump (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38029	1	1	D03-8303A-G01-M05	250V DC/ Breaker to Line Valve 1201-2 (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38030	1	1	D03-8303A-H02-M05	250V DC/ Breaker to Line Valve 1301-2 (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38031	1	1	D03-8303AAA02-M05	250V DC/ Breaker to Steam Valve 2301-8 (ROB-Bus 3A)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
38032	1	1	D03-8303B-K02-M05	250V DC/ Breaker to Steam Valve 2301-3 (ROB-Bus 3B)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38033	1	1	D03-8303B-L01-M05	250V DC/ Breaker to Test Valve 2301-5 (ROB-Bus 3B)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Operbl.	No	N/A	N/A	S
38034	1	1	D03-8303B-L02-M05	250V DC/ Breaker to Test Valve 2301-14 (ROB-Bus 3B)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Closed	No	N/A	N/A	S
38035	1	1	D03-8303B-002-M05	250V DC/ Breaker to Line Valve 2301-35 (ROB-Bus 3B)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Operbl.	No	N/A	N/A	S
38036	1	1	D03-8303B-P01-M05	250V DC/ Breaker to Line Valve 2301-36 (ROB-Bus 3B)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Operbl.	No	N/A	N/A	S
38037	1	1	D03-8302B-P02-M05	250V DC/ Breaker to Line Valve 2301-6 (ROB-Bus 2B)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	B		Open	Operbl.	No	N/A	N/A	S
38038	1	1	D03-8303A-----M05	250V DC/ MCC Bus #3A (ROB-RB MCC #3)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	S	5	Energ	Energ	Yes	12E-3321/ U	MOTIVE-250V DC TB MCC #2 CONTROL-N/A	S
38039	1	1	D03-8303B-----M05	250V DC/ MCC Bus #3B (ROB-RB MCC #3)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	S	5	Energ	Energ	Yes	12E-3321/ U	MOTIVE-250V DC TB MCC #2 CONTROL-N/A	S
38040	1	1	D02-83250-I02-M05	250V DC/ Breaker to RB MCC #3 (ROB-TB MCC #2)	12E-2321/ W/ B-8	Turbine	549' 0"	B RM2 E/31	B		Closed	Closed	No	N/A	N/A	S
38041	1	1	D02-83250-----M05	250V DC/ TB MCC #2	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-3321/ U	MOTIVE-250V DC Battery #2 CONTROL-N/A	S
38042	1	1	D02-83250-A01-M05	250V DC/ Breaker to TB MCC #2 (ROB-Battery #2)	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	B		Closed	Closed	No	N/A	N/A	S
38043	1	15	D02-83250-----B04	250V DC/ Battery #2	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	S	6	Charged	Charged	No	N/A	N/A	S
38044	1	1	D02-83250-A03-M05	250V DC/ Breaker to Battery #2 (ROB-Battery Charger #2)	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	B		Closed	Closed	No	N/A	N/A	S
38045	1	16	D02-83250-2---B05	250V DC/ Battery Charger #2	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389A/ D	MOTIVE/CONTROL-MCC 28-3	S
38046	1	1	D02-83250-A02-M05	250V DC/ Breaker to Battery #2 (ROB-Battery Chrg #2/3)	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	B		Open	Operbl.	No	N/A	N/A	S
38047	1	1	D03-7839-01A1-S35	480V AC/ Breaker to HPCI Cooling Pump (ROB-MCC 39-1)	12E-3319-1/ V	Reactor	517' 6"	L-M/50	B		Open	Closed	No	N/A	N/A	S
38048	1	1	D03-7839-01B1-S35	480V AC/ Breaker to HPCI Air Cooler (ROB-MCC 39-1)	12E-3319-3/ T	Reactor	517' 6"	L-M/50	B		Open	Closed	No	N/A	N/A	S
38049	1	1	D03-7839-01E2-S35	480V AC/ Breaker to Valve 1501-3B (ROB-MCC 39-1)	12E-3319-3/ T/ D-3	Reactor	517' 6"	L-M/50	B		Open	Closed	No	N/A	N/A	S
38050	1	1	D03-7839-01F1-S35	480V AC/ Breaker to LPCI Air Cooler B (ROB-MCC 39-1)	12E-3319-3/ T/ D-3	Reactor	517' 6"	L-M/50	B		Open	Closed	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
38051	1	1	D03-7839-01H1-S35	480V AC/ Breaker to Valve 1402-248 (ROB-MCC 39-1)	12E-3319-1/ V	Reactor	517' 6"	L-M/50	B	Open	Closed	No	N/A	N/A	S
38052	1	1	D03-7839-01H4-S35	480V AC/ Breaker to Valve 1402-38 (ROB-MCC 39-1)	12E-3319-1/ V	Reactor	517' 6"	L-M/50	B	Open	Closed	No	N/A	N/A	S
38053	1	1	D03-7839-01K1-S35	480V AC/ Breaker to Valve 1501-5C (ROB-MCC 39-1)	12E-3319-2/ R	Reactor	517' 6"	L-M/50	B	Open	Operbl.	No	N/A	N/A	S
38054	1	1	D03-7839-01K2-S35	480V AC/ Breaker to Valve 1501-5D (ROB-MCC 39-1)	12E-3319-3/ T/ D-5	Reactor	517' 6"	L-M/50	B	Open	Operbl.	No	N/A	N/A	S
38055	1	1	D03-7839-01L1-S35	480V AC/ Breaker to Valve 1501-388 (ROB-MCC 39-1)	12E-3319-2/ R	Reactor	517' 6"	L-M/50	B	Open	Closed	No	N/A	N/A	S
38056	1	1	D03-7839-01L2-S35	480V AC/ Breaker to Valve 1501-20B (ROB-MCC 39-1)	12E-3319-2/ R	Reactor	517' 6"	L-M/50	B	Open	Closed	No	N/A	N/A	S
38057	1	1	D03-7839-01N1-S35	480V AC/ Breaker to Valve 1501-13B (ROB-MCC 39-1)	12E-3319-3/ T/ D-7	Reactor	517' 6"	L-M/50	B	Open	Closed	No	N/A	N/A	S
38058	1	1	D03-7839-01N2-S35	480V AC/ Breaker to Valve 1501-11B (ROB-MCC 39-1)	12E-3319-3/ T/ D-7	Reactor	517' 6"	L-M/50	B	Open	Operbl.	No	N/A	N/A	S
38059	1	1	D03-7839-01P4-S35	480V AC/ Breaker to Valve 1501-32B (ROB-MCC 39-1)	12E-3319-2/ R	Reactor	517' 6"	L-M/50	B	Open	Closed	No	N/A	N/A	S
38060	1	1	D03-7839-01P5-S35	480V AC/ Breaker to Valve 2301-4 (ROB-MCC 39-1)	12E-3319-3/ T/ A-7	Reactor	517' 6"	L-M/50	B	Open	Operbl.	No	N/A	N/A	S
38061	1	1	D03-7839-1---M05	480V AC/ MCC 39-1	12E-3319-1,2,3/ V,R,T	Reactor	517' 6"	L-M/50	S 5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 39 CONTROL-N/A	S
38062	1	2	D03-7339-03938S35	480V AC/ Breaker to MCC 39-1 (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Closed	No	12E-3374/ U	MOTIVE/CONTROL-N/A	S
38063	1	1	D03-7839-02A3-S35	480V AC/ Breaker to CCSW Cooler C, Fan 1 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S
38064	1	1	D03-7829-02A4-S35	480V AC/ Breaker to 125V Batt. Chg. 3 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Operbl.	No	N/A	N/A	S
38065	1	1	D03-7839-02B2-S35	480V AC/ Breaker to CCSW Cooler C, Fan 2 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S
38066	1	1	D03-7839-02C2-S35	480V AC/ Breaker to DG Cooling Pump (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S
38067	1	1	D03-7839-02D3-S35	480V AC/ Breaker to 250V Batt. Chg. 2/3 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Operbl.	No	N/A	N/A	S
38068	1	1	D03-7839-02D4-S35	480V AC/ Breaker to CCSW Cooler D, Fan 1 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
38069	1	1	D03-7839-02D5-S35	480V AC/ Breaker to CCSW Cooler D, Fan 2 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S
38070	1	1	D03-7839-02E1-S35	480V AC/ Breaker to Transfer Pump 3 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S
38071	1	1	D03-7839-02E3-S35	480V AC/ Breaker to DG Vent. Fan 3 (ROB-MCC 39-2)	12E-3311/ AD	Turbine	534' 0"	G/44-45	B	Open	Closed	No	N/A	N/A	S
38072	1	1	D03-7839-2----M05	480V AC/ MCC 39-2	12E-3311/ AD	Turbine	534' 0"	G/44-45	S 5,6	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 39 CONTROL-N/A	S
38073	1	2	D03-7339-0393DS35	480V AC/ Breaker to MCC 39-2 (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Closed	No	12E-3374/ U	MOTIVE/CONTROL-N/A	S
38074	1	2	D03-7339-0394CS35	480V AC/ Breaker to MCC 39-7 (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Operbl.	Yes	12E-3374/ U	MOTIVE-N/A CONTROL-125V DC TB Res Bus #38-1	S
38075	1	2	D03-7339-0396AS35	480V AC/ Breaker to Drywell Fan C (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38076	1	2	D03-7339-0396BS35	480V AC/ Breaker to Drywell Fan D (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38077	1	2	D03-7339-0396CS35	480V AC/ Breaker to Drywell Fan E (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38078	1	2	D03-7339-----S35	480V AC/ Switchgear 39	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	S	Energ	Energ	Yes	12E-3306/ Q 12E-3322B/ C	MOTIVE-480V AC Transformer 39 CONTROL-125V DC TB Res Bus #38-1	S
38079	1	2	D03-7339-0392CS35	480V AC/ Breaker to Switchgear 38 (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR 4	Open	Operbl.	Yes	12E-3349/ S	MOTIVE-N/A CONTROL-125V DC TB Res Bus #38-1	S
38080	1	2	D03-7339-0392BS35	480V AC/ Breaker to Transformer 39 (ROB-Switchgear 39)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR 4	Closed	Operbl.	Yes	12E-3349/ S	MOTIVE-N/A CONTROL-125V DC TB Res Bus #38-1	S
38081	1	4	D03-7229-----T10	480V AC/ Transformer 39, Feed to Switchgear 39	12E-3306/ Q	Reactor	570' 0"	N/48	S	Energ	Energ	Yes	12E-3304/ Q	MOTIVE-4160V AC Switchgear 34-1 CONTROL-N/A	S
38082	2	1	D03-7838-01C1-S35	480V AC/ Breaker to LPCI Air Cooler (ROB-MCC 38-1)	12E-3318/ X/ D-2	Reactor	517' 6"	L/44	B	Open	Closed	No	N/A	N/A	S
38083	2	1	D03-7838-01E1-S35	480V AC/ Breaker to Valve 1402-24A (ROB-MCC 38-1)	12E-3318/ X/ D-2	Reactor	517' 6"	L/44	B	Open	Closed	No	N/A	N/A	S
38084	2	1	D03-7838-01E3-S35	480V AC/ Breaker to Valve 1501-3A (ROB-MCC 38-1)	12E-3318/ X/ D-2	Reactor	517' 6"	L/44	B	Open	Closed	No	N/A	N/A	S
38085	2	1	D03-7838-01F3-S35	480V AC/ Breaker to Valve 1201-1 (ROB-MCC 38-1)	12E-3318/ X/ D-2	Reactor	517' 6"	L/44	B	Open	Closed	No	N/A	N/A	S

SEISMIC QUALIFICATION FACILITIES GROUP (SQUG)
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	Fir.Elv.	LOCATION	Sort	Notes	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
38086	2	1	D03-7838-01H1-S35	480V AC/ Breaker to Valve 1301-4 (ROB-MCC 38-1)	12E-3318/ X/ D-2	Reactor	517' 6"	L/44	B	Open	Closed	No	N/A	N/A	S
38087	2	1	D03-7838-01H2-S35	480V AC/ Breaker to Valve 1301-1 (ROB-MCC 38-1)	12E-3318/ X/ D-2	Reactor	517' 6"	L/44	B	Open	Closed	No	N/A	N/A	S
38088	2	1	D03-7838-1---M05	480V AC/ MCC 38-1	12E-3318/ X/ F-2	Reactor	517' 6"	L/44	S 5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
38089	2	1	D03-7838-04A1-S35	480V AC/ Breaker to Valve 1402-3A (ROB-MCC 38-4)	12E-3320/ U/ E-6	Reactor	517' 6"	M/44	B	Open	Closed	No	N/A	N/A	S
38090	2	1	D03-7838-04A3-S35	480V AC/ Breaker to Valve 1501-5A (ROB-MCC 38-4)	12E-3320/ U/ E-6	Reactor	517' 6"	M/44	B	Open	Operbl.	No	N/A	N/A	S
38091	2	1	D03-7838-04A4-S35	480V AC/ Breaker to Valve 1501-5B (ROB-MCC 38-4)	12E-3320/ U/ E-6	Reactor	517' 6"	M/44	B	Open	Operbl.	No	N/A	N/A	S
38092	2	1	D03-7838-04B1-S35	480V AC/ Breaker to Valve 1501-38A (ROB-MCC 38-4)	12E-3320/ U/ E-6	Reactor	517' 6"	M/44	B	Open	Closed	No	N/A	N/A	S
38093	2	1	D03-7838-04B2-S35	480V AC/ Breaker to Valve 1501-20A (ROB-MCC 38-4)	12E-3320/ U/ E-6	Reactor	517' 6"	M/44	B	Open	Closed	No	N/A	N/A	S
38094	2	1	D03-7838-04C3-S35	480V AC/ Breaker to Valve 1501-32A (ROB-MCC 38-4)	12E-3320/ U/ E-4	Reactor	517' 6"	M/44	B	Open	Closed	No	N/A	N/A	S
38095	2	1	D03-7838-04E2-S35	480V AC/ Breaker to Valve 1501-13A (ROB-MCC 38-4)	12E-3320/ U/ E-4	Reactor	517' 6"	M/44	B	Open	Closed	No	N/A	N/A	S
38096	2	1	D03-7838-04E4-S35	480V AC/ Breaker to Valve 1501-11A (ROB-MCC 38-4)	12E-3320/ U/ E-2	Reactor	517' 6"	M/44	B	Open	Closed	No	N/A	N/A	S
38097	2	1	D03-7838-4---M05	480V AC/ MCC 38-4	12E-3320/ U/ F-4	Reactor	517' 6"	M/44	S 5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
38098	2	2	D03-7338-0384AS35	480V AC/ Breaker to MCC 38-1,4 (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Closed	No	12E-3374/ U	MOTIVE/CONTROL-N/A	S
38099	2	1	D03-7838-02C1-S35	480V AC/ Breaker to 125V Batt. Chg. 3A (ROB-MCC 38-2)	12E-3311/ AD	Turbine	538' 0"	G/52	B	Open	Operbl.	No	N/A	N/A	S
38100	2	1	D03-7838-02D2-S35	480V AC/ Breaker to 250V Batt. Chg. 3 (ROB-MCC 38-2)	12E-3311/ AD	Turbine	538' 0"	G/52	B	Open	Operbl.	No	N/A	N/A	S
38101	2	1	D03-7838-2---M05	480V AC/ MCC 38-2	12E-3311/ AD	Turbine	538' 0"	G/52	S 6	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
38102	2	2	D03-7338-0384BS35	480V AC/ Breaker to MCC 38-2 (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Closed	No	12E-3374/ U	MOTIVE/CONTROL-N/A	S

SEISMIC QUALIFICATION FACILITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
38103	2	1	D03-7838-03C4-S35	480V AC/ Breaker to DG Cooling Pump 2/3 (ROB-MCC 38-3)	12E-3312/ AD/ D-3	Turbine	517' 6"	G/44	B	Open	Closed	No	N/A	N/A	S
38104	2	1	D03-7838-03D1-S35	480V AC/ Breaker to CCSW Cooler A, Fan 1 (ROB-MCC 38-3)	12E-3312/ AD/ D-3	Turbine	517' 6"	G/44	B	Open	Closed	No	N/A	N/A	S
38105	2	1	D03-7838-03D2-S35	480V AC/ Breaker to CCSW Cooler A, Fan 2 (ROB-MCC 38-3)	12E-3312/ AD/ D-3	Turbine	517' 6"	G/44	B	Open	Closed	No	N/A	N/A	S
38106	2	1	D03-7838-03D3-S35	480V AC/ Breaker to CCSW Cooler B, Fan 1 (ROB-MCC 38-3)	12E-3312/ AD/ D-3	Turbine	517' 6"	G/44	B	Open	Closed	No	N/A	N/A	S
38107	2	1	D03-7838-03D4-S35	480V AC/ Breaker to CCSW Cooler B, Fan 2 (ROB-MCC 38-3)	12E-3312/ AD/ D-3	Turbine	517' 6"	G/44	B	Open	Closed	No	N/A	N/A	S
38108	2	1	D03-7838-3---M05	480V AC/ MCC 38-3	12E-3312/ AD/ F-5	Turbine	538' 0"	H/53	S 5,6	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
38109	2	2	D03-7338-0384DS35	480V AC/ Breaker to MCC 38-3 (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Closed	No	12E-3374/ U	MOTIVE/CONTROL-N/A	S
38110	2	1	D03-7838-07A2-S35	480V AC/ Breaker to Valve 1501-22A (ROB-MCC 38-7)	12E-3320/ U/ B-7	Reactor	517' 6"	N/46	B	Open	Closed	No	N/A	N/A	S
38111	2	1	D03-7838-07B2-S35	480V AC/ Breaker to Valve 202-5A (ROB-MCC 38-7)	12E-3320/ U/ B-6	Reactor	517' 6"	N/46	B	Open	Closed	No	N/A	N/A	S
38112	2	1	D03-7838-7---M05	480V AC/ MCC 38-7	12E-3320/ U/ C-7	Reactor	517' 6"	N/46	S 5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
38113	2	2	D03-7338-0385AS35	480V AC/ Breaker to MCC 38-7 (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Open	Operbl.	Yes	12E-3662E/ B	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3, TB Res Bus #38-1	S
38114	1	2	D03-7338-0386AS35	480V AC/ Breaker to Drywell Fan A (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38115	1	2	D03-7338-0386BS35	480V AC/ Breaker to Drywell Fan B (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38116	1	2	D03-7338-0386CS35	480V AC/ Breaker to Drywell Fan F (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38117	1	2	D03-7338-0386DS35	480V AC/ Breaker to Drywell Fan G (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	Closed	Open	No	12E-3306/ Q	MOTIVE/CONTROL-N/A	S
38118	2	2	D03-7338-----S35	480V AC/ Switchgear 38	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	S	Energ	Energ	Yes	12E-3306/ Q 12E-3322B/ C	MOTIVE-480V AC Transformer 38 CONTROL-RB 125V DC RB Distribution Panel #3	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
38119	2	2	D03-7338-0382CS35	480V AC/ Breaker to Switchgear 39 (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	4	Open	Operbl.	Yes	12E-3349/ S	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38120	2	2	D03-7338-0382BS35	480V AC/ Breaker to Transformer 38 (ROB-Switchgear 38)	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	BR	4	Closed	Operbl.	Yes	12E-3349/ S	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38121	2	4	D03-7138-----T10	480V AC/ Transformer 38, Feed to Switchgear 38	12E-3306/ Q	Reactor	570' 0"	N/48	S		Energ	Energ	Yes	12E-3304/ Q	MOTIVE-4160V AC Switchgear 33-1 CONTROL-N/A	S
38122	2	3	N/A	4160V AC/ Breaker to LPCI Pump 3A (ROB-Swit. 33-1)	12E-3304/ Q/ D-6	Reactor	545' 6"	M-N/46-47	BR		Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38123	2	3	N/A	4160V AC/ Breaker to LPCI Pump 3B (ROB-Swit. 33-1)	12E-3304/ Q/ D-6	Reactor	545' 6"	M-N/46-47	BR		Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38124	1	3	N/A	4160V AC/ Breaker to RBCCW Pump 3A (ROB-Swit. 33-1)	12E-3304/ Q/ D-4	Reactor	545' 6"	M-N/46-47	BR		Closed	Open	No	12E-3322B/ C	MOTIVE/CONTROL-N/A	S
38125	2	3	D03-6733-25	4160V AC/ Breaker to Switchgear 38 (ROB-Swit. 33-1)	12E-3304/ Q/ D-6	Reactor	545' 6"	M-N/46-47	BR		Closed	Closed	No	12E-3349/ S	MOTIVE/CONTROL-N/A	S
38126	2	3	D00-6733-33	4160V AC/ Breaker to Diesel Gen. 2/3 (ROB-Swit. 33-1)	12E-3304/ Q/ D-7	Reactor	545' 6"	M-N/46-47	BR		Open	Operbl.	Yes	12E-3345-1/ AP	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38127	2	3	D03-6733-23	4160V AC/ Breaker to Switchgear 33 (ROB-Swit. 33-1)	12E-3304/ Q/ D-5	Reactor	545' 6"	M-N/46-47	BR		Closed	Operbl.	Yes	12E-3344-2/ W	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38128	2	3	D03-6733-21	4160V AC/ Breaker to Switchgear 23-1 (ROB-Swit. 33-1)	12E-3304/ Q/ D-2	Reactor	545' 6"	M-N/46-47	BR		Open	Operbl.	Yes	12E-3345-3/ A	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38129	3	3	N/A	4160V AC/ Breaker to SDC Pump 1002-A (ROB-Swit. 33-1)	12E-3304/ Q/ D-2	Reactor	545' 6"	M-N/46-47	BR		Closed	Open	Yes	12E-3516/ F	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38130	3	3	N/A	4160V AC/ Breaker to SDC Pump 1002-C (ROB-Swit. 33-1)	12E-3304/ Q/ D-2	Reactor	545' 6"	M-N/46-47	BR		Closed	Open	Yes	12E-3516/ F	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38131	3	3	N/A	4160V AC/ Breaker to RWCU Pump 1205-A (ROB-Swit. 33-1)	12E-3304/ Q/ D-2	Reactor	545' 6"	M-N/46-47	BR		Closed	Open	Yes	12E-3520/ V	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	
38132	3	3	N/A	4160V AC/ Breaker to CS Pump 1401-3A (ROB-Swit. 33-1)	12E-3304/ Q/ D-2	Reactor	545' 6"	M-N/46-47	BR		Open	Closed	Yes	12E-3429-1/ U	MOTIVE-N/A CONTROL-125V S DC RB Distribution Panel #3	

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
38133	2	3	D03-67331-----S35	4160V AC/ Switchgear 33-1	12E-3304/ Q/ D-5	Reactor	545' 6"	M-N/46-47	S 5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator S #2/3 CONTROL-RB 125V DC RB Distribution Panel #3	S
38134	1	3	N/A	4160V AC/ Breaker to LPCI Pump 3C (ROB-Swit. 34-1)	12E-3304/ Q/ B-3	Reactor	545' 6"	M-N/48-49	BR	Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38135	1	3	N/A	4160V AC/ Breaker to LPCI Pump 3D (ROB-Swit. 34-1)	12E-3304/ Q/ B-3	Reactor	545' 6"	M-N/48-49	BR	Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38136	1	3	N/A	4160V AC/ Breaker to RBCCW Pump 3B (ROB-Swit. 34-1)	12E-3304/ Q/ B-4	Reactor	545' 6"	M-N/48-49	BR	Closed	Open	No	12E-3322B/ C	MOTIVE/CONTROL-N/A	S
38137	2	3	N/A	4160V AC/ Breaker to RBCCW Pump 2/3 (ROB-Swit. 34-1)	12E-3304/ Q/ B-4	Reactor	545' 6"	M-N/48-49	BR	Open	Open	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38138	1	3	D03-6734-26	4160V AC/ Breaker to Switchgear 39 (ROB-Swit. 34-1)	12E-3304/ Q/ B-6	Reactor	545' 6"	M-N/48-49	BR	Closed	Closed	No	12E-3349/ S	MOTIVE/CONTROL-N/A	S
38139	1	3	D03-6734-27	4160V AC/ Breaker to Diesel Gen. 3 (ROB-Swit. 34-1)	12E-3304/ Q/ B-1	Reactor	545' 6"	M-N/48-49	BR	Open	Operbl.	Yes	12E-3346-1/ AL	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38140	1	3	D03-6734-32	4160V AC/ Breaker to Switchgear 34 (ROB-Swit. 34-1)	12E-3304/ Q/ B-5	Reactor	545' 6"	M-N/48-49	BR	Closed	Operbl.	Yes	12E-3344-4/ U	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38141	1	3	D03-6734-21	4160V AC/ Breaker to Switchgear 24-1 (ROB-Swit. 34-1)	12E-3304/ Q/ B-7	Reactor	545' 6"	M-N/48-49	BR	Open	Operbl.	Yes	12E-3346-1/ AK	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38142	3	3	N/A	4160V AC/ Breaker to SDC Pump 1002-B (ROB-Swit. 34-1)	12E-3304/ Q/ B-7	Reactor	545' 6"	M-N/48-49	BR	Closed	Open	Yes	12E-3516/ F	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38143	3	3	N/A	4160V AC/ Breaker to RWCU Pump 1205-B (ROB-Swit. 34-1)	12E-3304/ Q/ B-7	Reactor	545' 6"	M-N/48-49	BR	Closed	Open	Yes	12E-3520/ V	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38144	3	3	N/A	4160V AC/ Breaker to CS Pump 1401-3B (ROB-Swit. 34-1)	12E-3304/ Q/ B-7	Reactor	545' 6"	M-N/48-49	BR	Open	Closed	Yes	12E-3429-2/ V	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	S
38145	1	3	D03-67341-----S35	4160V AC/ Switchgear 34-1	12E-3304/ Q/ B-6	Reactor	545' 6"	M-N/48-49	S 5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator S #3 CONTROL-125V DC TB Res Bus #38-1	S
38146	2	3	N/A	4160V AC/ Breaker to CCSW Pump 3A (ROB-Swit. 33)	12E-3303/ J/ D-4	Turbine	538' 0"	D-E/54-55	BR	Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	S
38147	2	3	N/A	4160V AC/ Breaker to CCSW Pump 3B (ROB-Swit. 33)	12E-3303/ J/ D-4	Turbine	538' 0"	D-E/54-55	BR	Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	S
38148	1	3	N/A	4160V AC/ Breaker to SW Pump 3A (ROB-Swit. 33)	12E-3303/ J/ D-4	Turbine	538' 0"	D-E/54-55	BR	Closed	Closed	No	12E-3322B/ C	MOTIVE/CONTROL-N/A	S
38149	2	3	D03-6733-10	4160V AC/ Breaker to Switchgear 33-1 (ROB-Swit. 33)	12E-3303/ J/ D-5	Turbine	538' 0"	D-E/54-55	BR	Closed	Operbl.	Yes	12E-3344-1/ V	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
38150	2	3	D03-6733-12	4160V AC/ Breaker to Unit Aux Trans 31 (ROB-Swit. 33)	12E-3303/ J/ D-5	Turbine	538' 0"	D-E/54-55	BR		Closed	Operbl.	Yes	12E-3342/ W	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	
38151	2	3	D03-6733-03	4160V AC/ Breaker to Res.Aux Trans 32 (ROB-Swit. 33)	12E-3303/ J/ D-3	Turbine	538' 0"	D-E/54-55	BR		Open	Operbl.	Yes	12E-3342/ W	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	
38152	2	3	D03-6733-----S35	4160V AC/ Switchgear 33	12E-3303/ J/ E-5	Turbine	538' 0"	D-E/54-55	S	5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator #2/3 CONTROL-125V DC TB Main Bus #3A-1	
38153	1	3	N/A	4160V AC/ Breaker to CCSW Pump 3C (ROB-Swit. 34)	12E-3303/ J/ B-5	Turbine	538' 0"	D-E/54-55	BR		Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	
38154	1	3	N/A	4160V AC/ Breaker to CCSW Pump 3D (ROB-Swit. 34)	12E-3303/ J/ B-5	Turbine	538' 0"	D-E/54-55	BR		Open	Closed	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	
38155	1	3	N/A	4160V AC/ Breaker to SW Pump 3B (ROB-Swit. 34)	12E-3303/ J/ B-4	Turbine	534' 0"	D-E/54-55	BR		Closed	Closed	No	12E-3322B/ C	MOTIVE/CONTROL-N/A	S
38156	2	3	N/A	4160V AC/ Breaker to SW Pump 2/3 (ROB-Swit. 34)	12E-3303/ J/ B-4	Turbine	534' 0"	D-E/54-55	BR		Open	Operbl.	Yes	12E-3322B/ C	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	
38157	1	3	D03-6734-03	4160V AC/ Breaker to Switchgear 34-1 (ROB-Swit. 34)	12E-3303/ J/ B-4	Turbine	538' 0"	D-E/54-55	BR		Closed	Operbl.	Yes	12E-3344-3/ T	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	
38158	1	3	D03-6734-01	4160V AC/ Breaker to Unit Aux Trans 31 (ROB-Swit. 34)	12E-3303/ J/ B-3	Turbine	538' 0"	D-E/54-55	BR		Open	Open	No	12E-3343/ X	MOTIVE/CONTROL-N/A	S
38159	1	3	D03-6734-11	4160V AC/ Breaker to Res Aux Trans 32 (ROB-Swit. 34)	12E-3303/ J/ B-5	Turbine	538' 0"	D-E/54-55	BR		Closed	Operbl.	Yes	12E-3343/ X	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	
38160	1	3	D03-6734-----S35	4160V AC/ Switchgear 34	12E-3303/ J/ C-5	Turbine	538' 0"	D-E/54-55	S	5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator #2 CONTROL-125V DC TB Res Bus #3B-1	
39002	3	20	D03-0903-0004-P05	CONTROL PANELS/ Control Panel 903-4	N/A	Turbine	534' 0"	C. RM PNL 903-4 S		5,6	N/A	N/A	No	N/A	N/A	S
39003	3	20	D03-0903-0015-P05	CONTROL PANELS/ Control Panel 903-15	N/A	Turbine	534' 0"	C. RM PL 903-15 S		5,6	N/A	N/A	No	N/A	N/A	S
39004	3	20	D03-0903-0017-P05	CONTROL PANELS/ Control Panel 903-17	N/A	Turbine	534' 0"	C. RM PL 903-17 S		5,6	N/A	N/A	No	N/A	N/A	S
39005	3	20	D03-0903-0019-P05	CONTROL PANELS/ Control Panel 903-19	N/A	Turbine	534' 0"	C. RM PL 903-19 S		6	N/A	N/A	No	N/A	N/A	S
39006	3	20	D03-0903-0028-P05	CONTROL PANELS/ Control Panel 903-28	N/A	Turbine	517' 6"	AEER PNL 903-28 S		5,6	N/A	N/A	No	N/A	N/A	S
39007	3	20	D03-0903-0032-P05	CONTROL PANELS/ Control Panel 903-32	N/A	Turbine	517' 6"	AEER PNL 903-32 S		5,6	N/A	N/A	No	N/A	N/A	S
39008	3	20	D03-0903-0033-P05	CONTROL PANELS/ Control Panel 903-33	N/A	Turbine	517' 6"	AEER PNL 903-33 S		5,6	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

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Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
39009	3	20	D03-0903-0036-P05	CONTROL PANELS/ Control Panel 903-36	N/A	Turbine	534' 0"	C. RM PL 903-36	S	6	N/A	N/A	No	N/A	N/A	S
39010	3	20	D03-0903-0039-P05	CONTROL PANELS/ Control Panel 903-39	N/A	Turbine	517' 6"	AEER PNL 903-39	S	5,6	N/A	N/A	No	N/A	N/A	S
39012	3	20	D03-0903-0046-P05	CONTROL PANELS/ Control Panel 903-46	N/A	Turbine	517' 6"	AEER PNL 903-46	S	5,6	N/A	N/A	No	N/A	N/A	S
39013	3	20	D03-0903-0047-P05	CONTROL PANELS/ Control Panel 903-47	N/A	Turbine	517' 6"	AEER PNL 903-47	S	5,6	N/A	N/A	No	N/A	N/A	S
39016	3	20	D03-0923-0005-P05	CONTROL PANELS/ Control Panel 923-5	N/A	Turbine	534' 0"	C. RM PNL 923-5	S	5,6	N/A	N/A	No	N/A	N/A	S
39017	3	18	D03-2203-0005-P05	INSTRUMENT RACKS/ Instrument Rack 2203-5	N/A	Reactor	545' 6"	M/47	S	5	N/A	N/A	No	N/A	N/A	S
39018	3	18	D03-2203-0006-P05	INSTRUMENT RACKS/ Instrument Rack 2203-6	N/A	Reactor	545' 6"	K/49	S	5	N/A	N/A	No	N/A	N/A	S
39019	3	18	D03-2203-0007-P05	INSTRUMENT RACKS/ Instrument Rack 2203-7	N/A	Reactor	517' 6"	K/45	S	5	N/A	N/A	No	N/A	N/A	S
39020	3	18	D03-2203-0008-P05	INSTRUMENT RACKS/ Instrument Rack 2203-8	N/A	Reactor	517' 6"	K/49	S	5	N/A	N/A	No	N/A	N/A	S
39021	3	18	D03-2203-0029-P05	INSTRUMENT RACKS/ Instrument Rack 2203-29	N/A	Reactor	476' 6"	HP RM3 N/46	S	5	N/A	N/A	No	N/A	N/A	S
39022	3	18	D03-2203-0032-P05	INSTRUMENT RACKS/ Instrument Rack 2203-32	N/A	Reactor	545' 6"	L/46	S	5	N/A	N/A	No	N/A	N/A	S
39023	3	18	D03-2203-0036-P05	INSTRUMENT RACKS/ Instrument Rack 2203-36	N/A	Reactor	476' 6"	SW C.RM N/49	S	5	N/A	N/A	No	N/A	N/A	S
39024	3	18	D03-2203-0070AP05	INSTRUMENT RACKS/ Instrument Rack 2203-70A	N/A	Turbine	517' 6"	AEER 2203-70A	S	5,6	N/A	N/A	No	N/A	N/A	S
39025	3	18	D03-2203-0070BP05	INSTRUMENT RACKS/ Instrument Rack 2203-70B	N/A	Turbine	517' 6"	AEER 2203-70B	S	5,6	N/A	N/A	No	N/A	N/A	S
39026	3	18	D03-2203-0073AP05	INSTRUMENT RACKS/ Instrument Rack 2203-73A	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
39027	3	18	D03-2203-0073BP05	INSTRUMENT RACKS/ Instrument Rack 2203-73B	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
39029	3	18	D03-2253-0083-P05	INSTRUMENT RACKS/ Instrument Rack 2253-83	N/A	Reactor	545' 6"	N/47	S	5	N/A	N/A	No	N/A	N/A	S
39030	3	18	D03-2253-0084-P05	INSTRUMENT RACKS/ Instrument Rack 2253-84	N/A	Reactor	545' 6"	N/48	S	5	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
COMPOSITE LIST

Data Base File Name/Date/Time: DRESSEL.DBF / 06/06/96 / 14:56:38
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	<-----> Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT NOTES		<-- OP. ST. --> Normal Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
39031	3	20	D03-2253-0010-P05	CONTROL PANELS/ DG Metering and Relay Cabinet	N/A	Turbine	517' 6"	DG RM3 G-H/55	S	5	N/A	N/A	No	N/A	N/A	S
39032	3	20	D03-2253-0021-P05	CONTROL PANELS/ DG Excitation Cabinet	N/A	Turbine	517' 6"	DG RM3 G-H/55	S	5	N/A	N/A	No	N/A	N/A	S
39033	3	20	D03-7838-1-1--P06	DISTRIBUTION PANELS/ Distribution Panel 38-1-1	N/A	Reactor	517' 6"	L-M/44	S	5	Energ	Energ	No	N/A	N/A	S
39034	3	1	D03-7839-7----M05	480V AC/ MCC 39-7	12E-3320/ U	Reactor	517' 6"	N/48	S	5	Energ	Energ	No	N/A	N/A	S
39035	3	18	D03-2301-PS4---PS	HPCI/ Emergency Bearing Oil Pump Pressure Switch	N/A	Reactor	476' 6"	HP RM3 N/46-47	SR	5	N/A	N/A	No	N/A	N/A	S

APPENDIX A2

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) SAFE SHUTDOWN EQUIPMENT LIST (SSEL) SEISMIC REVIEW LIST

The following is a listing of the components that comprise the Seismic Qualification Utilities Group (SQUG) Safe Shutdown Equipment List (SSEL) seismic review list. This list contains all equipment that required a seismic review per the Generic Implementation Procedure (GIP). The information that has been generated on this list was done so following the methodology discussed in section 2, with the exception of the line number. The line number for this list is a sequential number that allows the list to be sorted. The list is sorted by the system name in column 5, then by equipment identification number (EID) in column 4.



SEISMIC QUALIFICATION STUDIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SEISMIC REVIEW LIST

Data Base File Name/Date/Time: DRSEISEL.DBF / 06/06/96 12:11:20
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0001		16	D02-8300--2---B05	125V DC/ Battery Charger #2	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389D/ E	MOTIVE/CONTROL-MCC 29-2 S	
0002		16	D02-8300--2A---B05	125V DC/ Battery Charger #2A	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389D/ E	MOTIVE/CONTROL-MCC 28-2 S	
0003		15	D02-8300--BC---B04	125V DC/ Battery #2, Feed to TB Battery Bus #2	12E-3322B/ C/ F-7	Turbine	549' 0"	B RM2 E/31	S	6	Charged	Charged	No	N/A	N/A	S
0004		1	D02-8302A1----P06	125V DC/ TB Main Bus #2A-1 (ROB-Main Bus #2A)	12E-3322B/ C/ E-7	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Battery Bus #2 CONTROL-N/A	S
0005		1	D02-8302B-1---P06	125V DC/ TB Res Bus #2B-1 (ROB-TB Res Bus #2B)	12E-2322B/ D/ C-6	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Res Bus #2 CONTROL-N/A	S
0006		1	D02-83125-----P06	125V DC/ RB Distribution Panel #2	12E-2322B/ D/ B-6	Reactor	570' 0"	M-N/41-42	S		Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Main Bus #2A-1 CONTROL-N/A	S
0007		1	D02-83125-1---P06	125V DC/ TB Res Bus #2, Feed to TB Res Bus #2B-1	12E-2322B/ D/ D-6	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Main Bus #3A CONTROL-N/A	S
0008		1	D02-83125-2---P06	125V DC/ TB Battery Bus #2, Feed to Main Bus #2A-1	12E-3322B/ C/ E-7	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC Battery #2 CONTROL-N/A	S
0009		16	D03-8300--3---B05	125V DC/ Battery Charger #3	12E-3322B/ C/ F-4	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3974/ CD	MOTIVE/CONTROL-MCC 39-2 S	
0010		16	D03-8300--3A---B05	125V DC/ Battery Charger #3A	12E-2322B/ D/ F-4	Turbine	538' 0"	G-H/54-55	SR		Operbl.	Operbl.	Yes	12E-3974A/ B	MOTIVE/CONTROL-MCC 38-2 S	
0011		15	D03-8300--BC---B04	125V DC/ Battery #3, Feed to TB Battery Bus #3	12E-2322B/ D/ F-4	Turbine	551' 0"	B RM3 G-H/55	S	6	Charged	Charged	No	N/A	N/A	S
0012		1	D03-8303A1-1--P06	125V DC/ TB Main Bus #3A, Feed to Res Bus #2	12E-2322B/ D/ E-4	Turbine	538' 0"	G-H/54-55	S		Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC TB Battery Bus #3 CONTROL-N/A	S
0013		1	D03-8303A1-2--P06	125V DC/ TB Main Bus #3A-1 (ROB-Main Bus #3A)	12E-3322B/ C/ E-4	Turbine	538' 0"	G-H/54-55	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Battery Bus #3 CONTROL-N/A	S
0014		1	D03-8303B1----P06	125V DC/ TB Res Bus #3B-1 (ROB-TB Res Bus #3B)	12E-3322B/ C/ D-5	Turbine	538' 0"	BC RM3 G-H/55	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Main Bus #2A-1 CONTROL-N/A	S
0015		1	D03-83125-----P06	125V DC/ RB Distribution Panel #3	12E-3322B/ C/ B-5	Reactor	570' 0"	N/46	S		Energ	Energ	Yes	12E-3322B/ C	MOTIVE-125V DC TB Main Bus #3A CONTROL-N/A	S
0016		1	D03-83125-3---P06	125V DC/ TB Battery Bus #3, Feed to Main Bus #3A	12E-2322B/ D/ E-4	Turbine	538' 0"	G-H/54-55	S		Energ	Energ	Yes	12E-2322B/ D	MOTIVE-125V DC Battery #3 CONTROL-N/A	S
0017		16	D02-9802-2ANEGB05	24/48V DC/ Battery Charger #2A (-)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V AC Instrument Bus 902-50	S
0018		16	D02-9802-2APOSB05	24/48V DC/ Battery Charger #2A (+)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V AC Instrument Bus 902-50	S

SEISMIC QUALIFICATION IES GROUP (SQUG)
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	ST. Desired	POWER REQ?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0019	16	D02-9802-2BNEGB05	24/48V DC/ Battery Charger #2B (-)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	
0020	16	D02-9802-2BPOSB05	24/48V DC/ Battery Charger #2B (+)	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389/ U	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	
0021	15	D02-9802-A----B04	24/48V DC/ Battery #2A	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S	6	Charged	Charged	No	N/A	N/A	S
0022	1	D02-9802-A----P06	24/48V DC/ Distribution Panel #2A	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-2324-1/ Q	MOTIVE-24/48V DC Battery #2A CONTROL-N/A	S
0023	15	D02-9802-B----B04	24/48V DC/ Battery #2B	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S	6	Charged	Charged	No	N/A	N/A	S
0024	1	D02-9802-B----P06	24/48V DC/ Distribution Panel #2B	12E-2324-1/ Q	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-2324-1/ Q	MOTIVE-24/48V DC Battery #2B CONTROL-N/A	S
0025	16	D03-9802-3ANEBG05	24/48V DC/ Battery Charger #3A (-)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	
0026	16	D03-9802-3APOSB05	24/48V DC/ Battery Charger #3A (+)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	
0027	16	D03-9802-3BNEGB05	24/48V DC/ Battery Charger #3B (-)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	
0028	16	D03-9802-3BPOSB05	24/48V DC/ Battery Charger #3B (+)	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3389/ S	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	
0029	15	D03-9802-A----B04	24/48V DC/ Battery #3A	12E-3324-1/ N	Turbine	551' 0"	B RM3 G-H/55	S	6	Charged	Charged	No	N/A	N/A	S
0030	1	D03-9802-A----P06	24/48V DC/ Distribution Panel #3A	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	S		Energ	Energ	Yes	12E-3324-1/ N	MOTIVE-24/48V DC Battery #3A CONTROL-N/A	S
0031	15	D03-9802-B----B04	24/48V DC/ Battery #3B	12E-3324-1/ N	Turbine	551' 0"	B RM3 G-H/55	S	6	Charged	Charged	No	N/A	N/A	S
0032	1	D03-9802-B----P06	24/48V DC/ Distribution Panel #3B	12E-3324-1/ N	Turbine	538' 0"	BC RM3 G-H/55	S		Energ	Energ	Yes	12E-3324-1/ N	MOTIVE-24/48V DC Battery #3B CONTROL-N/A	S
0033	16	D00-83250-0---B05	250V DC/ Battery Charger #2/3	12E-2(3)321/ W(U)/ B-7	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389B/ E	MOTIVE/CONTROL-MCC 29-2 S	
0034	1	D02-8302A-----M05	250V DC/ MCC Bus #2A (ROB-RB MCC #2)	12E-2321/ W/ D-6	Reactor	570' 0"	M-N/41-42	S	5	Energ	Energ	Yes	12E-2321/ W	MOTIVE-250V DC TB MCC #3 CONTROL-N/A	S
0035	1	D02-8302B-----M05	250V DC/ MCC Bus #2B (ROB-RB MCC #2)	12E-2321/ W/ D-4	Reactor	570' 0"	M-N/41-42	S	5	Energ	Energ	Yes	12E-2321/ W	MOTIVE-250V DC TB MCC #3 CONTROL-N/A	S
0036	15	D02-83250-----B04	250V DC/ Battery #2	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	S	6	Charged	Charged	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0037	1	D02-83250-----M05	250V DC/ TB MCC #2	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	S		Energ	Energ	Yes	12E-3321/ U	MOTIVE-250V DC Battery #2 CONTROL-N/A	S
0038	16	D02-83250-2---B05	250V DC/ Battery Charger #2	12E-3321/ U	Turbine	549' 0"	B RM2 E/31	SR		Operbl.	Operbl.	Yes	12E-2389A/ D	MOTIVE/CONTROL-MCC 28-3	S
0039	1	D03-8303A-----M05	250V DC/ MCC Bus #3A (ROB-RB MCC #3)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	S	5	Energ	Energ	Yes	12E-3321/ U	MOTIVE-250V DC TB MCC #2 CONTROL-N/A	S
0040	1	D03-8303B-----M05	250V DC/ MCC Bus #3B (ROB-RB MCC #3)	12E-3321/ U	Reactor	570' 0"	M-N/46-47	S	5	Energ	Energ	Yes	12E-3321/ U	MOTIVE-250V DC TB MCC #2 CONTROL-N/A	S
0041	15	D03-83250-----B04	250V DC/ Battery #3, Feed to TB MCC #3	12E-2321/ W/ B-8	Turbine	551' 0"	B RM3 G-H/55	S	6	Charged	Charged	No	N/A	N/A	S
0042	1	D03-83250-----M05	250V DC/ TB MCC #3	12E-2321/ W/ B-8	Turbine	538' 0"	BC RM3 G-H/55	S		Energ	Energ	Yes	12E-2321/ W	MOTIVE-250V DC Battery #3 CONTROL-N/A	S
0043	16	D03-83250-3---B05	250V DC/ Battery Charger #3	12E-2321/ W/ B-8	Turbine	538' 0"	BC RM3 G-H/55	SR		Operbl.	Operbl.	Yes	12E-3389A/ F	MOTIVE/CONTROL-MCC 38-2	S
0044	3	D00-6740-----S35	4160V AC/ Switchgear 40	N/A	Reactor	504' 6"	DG RM2/3 N/46	SR	5	N/A	N/A	No	12E-6631/ G	MOTIVE/CONTROL-N/A	S
0045	3	D02-6723-----S35	4160V AC/ Switchgear 23	12E-2303-2/ L	Turbine	534' 0"	D-E/31-32	S	5,6	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-Diesel Generator #2/3 CONTROL-125V DC TB Main Bus #2A-1	S
0046	3	D02-67231-----S35	4160V AC/ Switchgear 23-1	12E-2304/ S/ D-5	Reactor	545' 6"	M-N/39-40	S	5,6	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-Diesel Generator #2/3 CONTROL-125V DC RB Distribution Panel #2	S
0047	3	D02-6724-----S35	4160V AC/ Switchgear 24	12E-2303-2/ L	Turbine	534' 0"	D-E/31-32	S	5,6	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-Diesel Generator #2 CONTROL-125V DC TB Res Bus #2B-1	S
0048	3	D02-67241-----S35	4160V AC/ Switchgear 24-1	12E-2304/ S/ D-5	Reactor	545' 6"	M-N/41-42	S	5,6	Energ	Energ	Yes	12E-2322B/ D	MOTIVE-Diesel Generator #2 CONTROL-125V DC TB Res Bus #2B-1	S
0049	3	D03-6733-----S35	4160V AC/ Switchgear 33	12E-3303/ J/ E-5	Turbine	538' 0"	D-E/54-55	S	5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator #2/3 CONTROL-125V DC TB Main Bus #3A-1	S
0050	3	D03-67331-----S35	4160V AC/ Switchgear 33-1	12E-3304/ Q/ D-5	Reactor	545' 6"	M-N/46-47	S	5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator #2/3 CONTROL-RB 125V DC RB Distribution Panel #3	S
0051	3	D03-6734-----S35	4160V AC/ Switchgear 34	12E-3303/ J/ C-5	Turbine	538' 0"	D-E/54-55	S	5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator #2 CONTROL-125V DC TB Res Bus #3B-1	S
0052	3	D03-67341-----S35	4160V AC/ Switchgear 34-1	12E-3304/ Q/ B-6	Reactor	545' 6"	M-N/48-49	S	5,6	Energ	Energ	Yes	12E-3322B/ C	MOTIVE-Diesel Generator #3 CONTROL-125V DC TB Res Bus #3B-1	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13) (14) (15) (16) (17)
0053	4	D02-7128-----T10	480V AC/ Transformer 28, Feed to Switchgear 28	12E-2306/ W	Reactor	570' 0"	N/40	S		Energ Energ Yes 12E-2304/ S MOTIVE-4160V Switchgear S 23-1 CONTROL-N/A
0054	4	D02-7229-----T10	480V AC/ Transformer 29, Feed to Switchgear 29	12E-2306/ W	Reactor	570' 0"	N/40	S		Energ Energ Yes 12E-2304/ S MOTIVE-4160V AC Switchgear 24-1 CONTROL-N/A S
0055	2	D02-7328-----S35	480V AC/ Switchgear 28	12E-2306/ W	Reactor	570' 0"	M-N/40-41	S		Energ Energ Yes 12E-2306/ W 12E-2322B/ D MOTIVE-480V AC Transformer 28 CONTROL-125V DC RB Distribution Panel #2 S
0056	2	D02-7329-----S35	480V AC/ Switchgear 29	12E-2306/ W	Reactor	570' 0"	M-N/40-41	S	5	Energ Energ Yes 12E-2306/ W 12E-2322B/ D MOTIVE-480V AC Transformer 29 CONTROL-125V DC TB Res Bus #2B-1 S
0057	1	D02-7826-4----M05	480V AC/ MCC 26-4	N/A	Turbine	549' 0"	D-E/32	S		Energ Energ No N/A N/A S
0058	1	D02-7828-1----M05	480V AC/ MCC 28-1	12E-2318/ AK/ A-3	Reactor	517' 6"	L-M/38	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 28 CONTROL-N/A S
0059	1	D02-7828-2----M05	480V AC/ MCC 28-2	12E-2311/ AD/ F-5	Turbine	538' 0"	F-G/35-36	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 28 CONTROL-N/A S
0060	1	D02-7828-3----M05	480V AC/ MCC 28-3	12E-2312/ V/ F-6	Turbine	538' 0"	F-G/35-36	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 28 CONTROL-N/A S
0061	1	D02-7828-7----M05	480V AC/ MCC 28-7	12E-2318/ AK/ A-3	Reactor	517' 6"	N/40	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 28 CONTROL-N/A S
0062	1	D02-7829-1----M05	480V AC/ MCC 29-1	12E-2319/ X	Reactor	517' 6"	L/44	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 29 CONTROL-N/A S
0063	1	D02-7829-2----M05	480V AC/ MCC 29-2	12E-2311/ AD	Turbine	517' 6"	D-E/32-33	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 29 CONTROL-N/A S
0064	1	D02-7829-4----M05	480V AC/ MCC 29-4	12E-2320/ AA	Reactor	517' 6"	M/44	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 29 CONTROL-N/A S
0065	1	D02-7829-7----M05	480V AC/ MCC 29-7	12E-2320/ AA	Reactor	517' 6"	N/42	S	5	Energ Energ No N/A N/A S
0066	1	D02-7829-8----M05	480V AC/ MCC 29-8	12E-6811/ 2/ B-6	Turbine	534' 0"	VENT RM2/3 G/32	S	5	Energ Energ Yes 12E-2306/ W MOTIVE-480V AC Switchgear 29 CONTROL-N/A S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0067		4	D03-7138-----T10	480V AC/ Transformer 38, Feed to Switchgear 38	12E-3306/ Q	Reactor	570' 0"	N/48	S		Energ	Energ	Yes	12E-3304/ Q	MOTIVE-4160V AC Switchgear 33-1 CONTROL-N/A	S
0068		4	D03-7229-----T10	480V AC/ Transformer 39, Feed to Switchgear 39	12E-3306/ Q	Reactor	570' 0"	N/48	S		Energ	Energ	Yes	12E-3304/ Q	MOTIVE-4160V AC Switchgear 34-1 CONTROL-N/A	S
0069		2	D03-7338-----S35	480V AC/ Switchgear 38	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	S		Energ	Energ	Yes	12E-3306/ Q 12E-3322B/ C	MOTIVE-480V AC Transformer 38 CONTROL-RB 125V DC RB Distribution Panel #3	S
0070		2	D03-7339-----S35	480V AC/ Switchgear 39	12E-3306/ Q	Reactor	570' 0"	M-N/47-48	S		Energ	Energ	Yes	12E-3306/ Q 12E-3322B/ C	MOTIVE-480V AC Transformer 39 CONTROL-125V DC TB Res Bus #38-1	S
0071		1	D03-7838-1----M05	480V AC/ MCC 38-1	12E-3318/ X/ F-2	Reactor	517' 6"	L/44	S	5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
0072		1	D03-7838-2----M05	480V AC/ MCC 38-2	12E-3311/ AD	Turbine	538' 0"	G/52	S	6	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
0073		1	D03-7838-3----M05	480V AC/ MCC 38-3	12E-3312/ AD/ F-5	Turbine	538' 0"	H/53	S	5,6	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
0074		1	D03-7838-4----M05	480V AC/ MCC 38-4	12E-3320/ U/ F-4	Reactor	517' 6"	M/44	S	5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
0075		1	D03-7838-7----M05	480V AC/ MCC 38-7	12E-3320/ U/ C-7	Reactor	517' 6"	N/46	S	5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 38 CONTROL-N/A	S
0076		1	D03-7839-1----M05	480V AC/ MCC 39-1	12E-3319-1,2,3/ V,R,T	Reactor	517' 6"	L-M/50	S	5	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 39 CONTROL-N/A	S
0077		1	D03-7839-2----M05	480V AC/ MCC 39-2	12E-3311/ AD	Turbine	534' 0"	G/44-45	S	5,6	Energ	Energ	Yes	12E-3306/ Q	MOTIVE-480V AC Switchgear 39 CONTROL-N/A	S
0078		1	D03-7839-7----M05	480V AC/ MCC 39-7	12E-3320/ U	Reactor	517' 6"	N/48	S	5	Energ	Energ	No	N/A	N/A	S
0079		88	D02-0203-0003AV26	ADS/ Target Rock Valve	M-12-1/ NR/ F-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-2461-1/ AW	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #2A-1, TB Res Bus #2B-1	S

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Program File Name & Version: SSEM 2.2

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0080	88	D02-0203-00038V26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	
0081	88	D02-0203-0003CV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ D-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	
0082	88	D02-0203-0003DV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ B-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	
0083	88	D02-0203-0003EV26	ADS/ Electromatic Relief Valve	M-12-1/ NR/ E-6	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-2461-1/ AW	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #2A-1, TB Res Bus #2B-1	
0084	7	D02-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0085	7	D02-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ F-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0086	7	D02-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0087	7	D02-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ D-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0088	7	D02-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0089	7	D02-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ C-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0090	7	D02-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0091	7	D02-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-12-1/ NR/ B-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0092	88	D03-0203-0003AV26	ADS/ Target Rock Valve	M-345-1/ AH/ F-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-Instrument Air CONTROL-125V DC TB Main Bus #3A-1, TB Res Bus #3B-1	S
0093	88	D03-0203-0003BV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #3B-1	
0094	88	D03-0203-0003CV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ D-7	Reactor	537' 0"	DRYWELL	SR	1,2	Closed	Open	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #3B-1	

SEISMIC QUALIFICATION PROPERTIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SEISMIC REVIEW LIST

Data Base File Name/Date/Time: DRSEISEL.DBF / 06/06/96 12:11:20
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0095	88	D03-0203-0003DV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ B-7	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #3B-1	
0096	88	D03-0203-0003EV26	ADS/ Electromatic Relief Valve	M-345-1/ AH/ E-6	Reactor	537' 0"	DRYWELL	SR	2	Closed	Operbl.	Yes	12E-3461-1/ AL	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1, TB Res Bus #3B-1	
0097	7	D03-0203-0004AV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0098	7	D03-0203-0004BV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ F-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0099	7	D03-0203-0004CV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0100	7	D03-0203-0004DV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ D-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0101	7	D03-0203-0004EV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0102	7	D03-0203-0004FV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ C-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0103	7	D03-0203-0004GV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0104	7	D03-0203-0004HV26	ADS/ Reactor Overpressure Relief Valve	M-345-1/ AH/ B-8	Reactor	537' 0"	DRYWELL	S		Closed	Operbl.	No	N/A	N/A	S
0105	8A	D02-1501-0003AV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	SR	1,2	Closed	Operbl.	Yes	12E-2440-1/ AC	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC Bus #2A-1, 120V AC Essen. Bus 902-50	S
0106	8A	D02-1501-0003BV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM N/43	SR	1,2	Closed	Operbl.	Yes	12E-2440-1/ AC	MOTIVE-MCC 29-4 CONTROL-MCC 29-4, 125V DC Bus #2B-1, 120V AC Essen. Bus 902-49	S
0107	5	D02-1501-0044AP30	CCSW/ CCSW Pump "A"	M-29-2/ Z/ B-3	Turbine	495' 0"	D/36	SR	1,2	Off	On	Yes	12E-2435-1/ Y	MOTIVE-4160V AC Switchgear 23 CONTROL-125V DC TB Main Bus #2A-1	S
0108	5	D02-1501-0044BP30	CCSW/ CCSW Pump "B"	M-29-2/ Z/ C-3	Turbine	495' 0"	VAULT RM D/38	SR	1,2	Off	On	Yes	12E-2435-1/ Y	MOTIVE-4160V AC Switchgear 23 CONTROL-125V DC TB Main Bus #2A-1	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SEISMIC REVIEW LIST

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Program File Name & Version: SSEM 2.2

LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elev.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0109	5	D02-1501-0044CP30	CCSW/ CCSW Pump "C"	M-29-2/ Z/ E-3	Turbine	495' 0"	VAULT RM D/38	SR	1,2	Off	On	Yes	12E-2435-2/ Y	MOTIVE-4160V AC Switchgear 24 CONTROL-125V DC TB Res Bus #28-1	S
0110	5	D02-1501-0044DP30	CCSW/ CCSW Pump "D"	M-29-2/ Z/ F-3	Turbine	495' 0"	D/39	SR	1,2	Off	On	Yes	12E-2435-2/ Y	MOTIVE-4160V AC Switchgear 24 CONTROL-125V DC TB Res Bus #28-1	S
0111	10	D02-5700-0030AH15	CCSW/ CCSW Pump Cooler "A"	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	S		N/A	N/A	No	N/A	N/A	S
0112	10	D02-5700-0030BH15	CCSW/ CCSW Pump Cooler "B"	M-29-2/ Z/ D-3	Turbine	495' 0"	VAULT RM D/38	S		N/A	N/A	No	N/A	N/A	S
0113	10	D02-5700-0030CH15	CCSW/ CCSW Pump Cooler "C"	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	S		N/A	N/A	No	N/A	N/A	S
0114	10	D02-5700-0030DH15	CCSW/ CCSW Pump Cooler "D"	M-29-2/ Z/ F-3	Turbine	495' 0"	VAULT RM D/38	S		N/A	N/A	No	N/A	N/A	S
0115	8A	D03-1501-0003AV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-360-1/ UR/ F-8	Reactor	476' 6"	SE C.RM M/44	SR	1,2	Closed	Operbl.	Yes	12E-3440-1/ Y	MOTIVE-MCC 38-1 CONTROL-MCC 38-1, 125V DC Bus #3A-1, 120V AC Essen. Bus 903-50	S
0116	8A	D03-1501-0003BV20	CCSW/ Heat Exchanger Outlet Service Water Line Valve	M-360-1/ UR/ F-2	Reactor	476' 6"	SW C.RM N/49	SR	1,2	Closed	Operbl.	Yes	12E-3440-1/ Y	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC Bus #3B-1, 120V AC Essen. Bus 903-49	S
0117	5	D03-1501-0044AP30	CCSW/ CCSW Pump "A"	M-360-2/ X/ B-3	Turbine	495' 0"	D/49	SR	1,2	Off	On	Yes	12E-3435-1/ S	MOTIVE-4160V AC Switchgear 33 CONTROL-125V DC TB Main Bus #3A-1	S
0118	5	D03-1501-0044BP30	CCSW/ CCSW Pump "B"	M-360-2/ X/ C-3	Turbine	495' 0"	VAULT RM D/50	SR	1,2	Off	On	Yes	12E-3435-1/ S	MOTIVE-4160V AC Switchgear 33 CONTROL-125V DC TB Main Bus #3A-1	S
0119	5	D03-1501-0044CP30	CCSW/ CCSW Pump "C"	M-360-2/ X/ E-2	Turbine	495' 0"	VAULT RM D/50	SR	1,2	Off	On	Yes	12E-3435-2/ S	MOTIVE-4160V AC Switchgear 34 CONTROL-125V DC TB Res Bus #38-1	S
0120	5	D03-1501-0044DP30	CCSW/ CCSW Pump "D"	M-360-2/ X/ F-3	Turbine	495' 0"	D/52	SR	1,2	Off	On	Yes	12E-3435-2/ S	MOTIVE-4160V AC Switchgear 34 CONTROL-125V DC TB Res Bus #38-1	S
0121	10	D03-5700-0030AH15	CCSW/ CCSU Pump Cooler "A"	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	S		N/A	N/A	No	N/A	N/A	S
0122	10	D03-5700-0030BH15	CCSW/ CCSW Pump Cooler "B"	M-360-2/ X/ D-3	Turbine	495' 0"	VAULT RM D/50	S		N/A	N/A	No	N/A	N/A	S
0123	10	D03-5700-0030CH15	CCSW/ CCSW Pump Cooler "C"	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	S		N/A	N/A	No	N/A	N/A	S
0124	10	D03-5700-0030DH15	CCSW/ CCSW Pump Cooler "D"	M-360-2/ X/ F-3	Turbine	495' 0"	VAULT RM D/50	S		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0125		21	D00-3303-A----	T05	CONDENSATE/ Contaminated Condensate Storage Tank A	M-35-1/ CH/ E-5	N/A	Grade	N/A	S	N/A	N/A	No	N/A	N/A	S
0126		21	D00-3303-B----	T05	CONDENSATE/ Contaminated Condensate Storage Tank B	M-35-1/ CH/ E-4	N/A	Grade	N/A	S	N/A	N/A	No	N/A	N/A	S
0127		20	D00-2223-0033-P05		CONTROL PANELS/ DG Relaying and Metering Cabinet	N/A	Reactor	504' 6"	DG RM2/3 N/46	S 5	N/A	N/A	No	N/A	N/A	S
0128		20	D00-2223-0041-P05		CONTROL PANELS/ DG Excitation Cabinet	N/A	Reactor	504' 6"	DG RM2/3 N/46	S 5	N/A	N/A	No	N/A	N/A	S
0129		20	D00-2223-0053-P05		CONTROL PANELS/ Diesel Generator Fire Protection Panel	N/A	Turbine	517' 6"	G/45	S 5	N/A	N/A	No	N/A	N/A	S
0130		20	D00-2223-0109-P05		CONTROL PANELS/ DG Cooling Pump Transfer Switch Status	N/A	Reactor	504' 6"	DG RM2/3 N/46	S 5,6	N/A	N/A	No	N/A	N/A	S
0131		20	D00-9400-0102-P05		CONTROL PANELS/ RCU Control Panel	N/A	Turbine	534' 0"	VENT RM2/3 G/32	S 5	N/A	N/A	No	N/A	N/A	S
0132		20	D00-9400-0103-P05		CONTROL PANELS/ Control Cabinet 9400-103	N/A	Turbine	534' 0"	VENT RM2/3 G/32	S 5	N/A	N/A	No	N/A	N/A	S
0133		20	D00-9400-0105-P05		CONTROL PANELS/ Control Cabinet 9400-105	N/A	Turbine	534' 0"	VENT RM2/3 G/32	S 5,6	N/A	N/A	No	N/A	N/A	S
0134		20	D00-ACP		CONTROL PANELS/ Unit 2/3 Auxiliary Control Panel	N/A	Reactor	504' 6"	DG RM2/3 N/46	S 5,6	N/A	N/A	No	N/A	N/A	S
0135		20	D00-NGC		CONTROL PANELS/ Unit 2/3 Neutral Grounding Cabinet	N/A	Reactor	504' 6"	DG RM2/3 N/46	S 5	N/A	N/A	No	N/A	N/A	S
0136		20	D02-0902-0004-P05		CONTROL PANELS/ Control Panel 902-4	N/A	Turbine	534' 0"	C. RM PNL 902-4	S 5,6	N/A	N/A	No	N/A	N/A	S
0137		20	D02-0902-0015-P05		CONTROL PANELS/ Control Panel 902-15	N/A	Turbine	534' 0"	C. RM PL 902-15	S 5,6	N/A	N/A	No	N/A	N/A	S
0138		20	D02-0902-0017-P05		CONTROL PANELS/ Control Panel 902-17	N/A	Turbine	534' 0"	C. RM PL 902-17	S 5,6	N/A	N/A	No	N/A	N/A	S
0139		20	D02-0902-0019-P05		CONTROL PANELS/ Control Panel 902-19	N/A	Turbine	534' 0"	C. RM PL 902-19	S 6	N/A	N/A	No	N/A	N/A	S
0140		20	D02-0902-0028-P05		CONTROL PANELS/ Control Panel 902-28	N/A	Turbine	517' 6"	AEER PNL 902-28	S 5,6	N/A	N/A	No	N/A	N/A	S
0141		20	D02-0902-0032-P05		CONTROL PANELS/ Control Panel 902-32	N/A	Turbine	517' 6"	AEER PNL 902-32	S 5,6	N/A	N/A	No	N/A	N/A	S
0142		20	D02-0902-0033-P05		CONTROL PANELS/ Control Panel 902-33	N/A	Turbine	517' 6"	AEER PNL 902-33	S 5,6	N/A	N/A	No	N/A	N/A	S
0143		20	D02-0902-0036-P05		CONTROL PANELS/ Control Panel 902-36	N/A	Turbine	534' 0"	C. RM PL 902-36	S 6	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0144	20	D02-0902-0039-P05	CONTROL PANELS/ Control Panel 902-39	N/A	Turbine	517' 6"	AEER PNL 902-39 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0145	20	D02-0902-0046-P05	CONTROL PANELS/ Control Panel 902-46	N/A	Turbine	517' 6"	AEER PNL 902-46 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0146	20	D02-0902-0047-P05	CONTROL PANELS/ Control Panel 902-47	N/A	Turbine	517' 6"	AEER PNL 902-47 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0147	20	D02-2252-0010-P05	CONTROL PANELS/ DG Metering and Relay Cabinet	N/A	Turbine	517' 6"	DG RM2 G-H/35 S	5	N/A	N/A	No	N/A	N/A	N/A	S	
0148	20	D02-2252-0021-P05	CONTROL PANELS/ DG Excitation Cabinet	N/A	Turbine	517' 6"	DG RM2 G-H/35 S	5	N/A	N/A	No	N/A	N/A	N/A	S	
0149	20	D03-0903-0004-P05	CONTROL PANELS/ Control Panel 903-4	N/A	Turbine	534' 0"	C. RM PNL 903-4 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0150	20	D03-0903-0015-P05	CONTROL PANELS/ Control Panel 903-15	N/A	Turbine	534' 0"	C. RM PL 903-15 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0151	20	D03-0903-0017-P05	CONTROL PANELS/ Control Panel 903-17	N/A	Turbine	534' 0"	C. RM PL 903-17 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0152	20	D03-0903-0019-P05	CONTROL PANELS/ Control Panel 903-19	N/A	Turbine	534' 0"	C. RM PL 903-19 S	6	N/A	N/A	No	N/A	N/A	N/A	S	
0153	20	D03-0903-0028-P05	CONTROL PANELS/ Control Panel 903-28	N/A	Turbine	517' 6"	AEER PNL 903-28 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0154	20	D03-0903-0032-P05	CONTROL PANELS/ Control Panel 903-32	N/A	Turbine	517' 6"	AEER PNL 903-32 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0155	20	D03-0903-0033-P05	CONTROL PANELS/ Control Panel 903-33	N/A	Turbine	517' 6"	AEER PNL 903-33 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0156	20	D03-0903-0036-P05	CONTROL PANELS/ Control Panel 903-36	N/A	Turbine	534' 0"	C. RM PL 903-36 S	6	N/A	N/A	No	N/A	N/A	N/A	S	
0157	20	D03-0903-0039-P05	CONTROL PANELS/ Control Panel 903-39	N/A	Turbine	517' 6"	AEER PNL 903-39 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0158	20	D03-0903-0046-P05	CONTROL PANELS/ Control Panel 903-46	N/A	Turbine	517' 6"	AEER PNL 903-46 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0159	20	D03-0903-0047-P05	CONTROL PANELS/ Control Panel 903-47	N/A	Turbine	517' 6"	AEER PNL 903-47 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0160	20	D03-0923-0005-P05	CONTROL PANELS/ Control Panel 923-5	N/A	Turbine	534' 0"	C. RM PNL 923-5 S	5,6	N/A	N/A	No	N/A	N/A	N/A	S	
0161	20	D03-2253-0010-P05	CONTROL PANELS/ DG Metering and Relay Cabinet	N/A	Turbine	517' 6"	DG RM3 G-H/55 S	5	N/A	N/A	No	N/A	N/A	N/A	S	

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0162	20	D03-2253-0021-P05	CONTROL PANELS/ DG Excitation Cabinet	N/A	Turbine	517' 6"	DG RM3 G-H/55	S	5	N/A	N/A	No	N/A	N/A	S
0163	7	D00-5741-0048AV72	CONTROL ROOM VENTILATION/ CCSW Cooling Supply Valve	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Operbl.	Yes	12E-6811D/ 6	MOTIVE-N/A CONTROL-MCC 29-8	S
0164	7	D00-5741-0048BV72	CONTROL ROOM VENTILATION/ Service Water Supply Valve	M-3121/ 10/ B-3	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Operbl.	Yes	12E-6811D/ 6	MOTIVE/CONTROL-N/A	S
0165	8B	D00-5741-0054-V27	CONTROL ROOM VENTILATION/ Train "A" Iso. Damper Solen.	M-273-1/ C/ E-2	Turbine	549' 0"	H/32		SR 1	Energ	Deenerg	No	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0166	10	D00-5741-0054AD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ D-5	Turbine	549' 0"	H/32		S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
0167	10	D00-5741-0054BD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ E-2	Turbine	549' 0"	H/32		S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
0168	10	D00-5741-0054CD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ D-5	Turbine	549' 0"	H/32		S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
0169	10	D00-5741-0054DD05	CONTROL ROOM VENTILATION/ Train "A" Isolation Damper	M-273-1/ C/ D-5	Turbine	549' 0"	H/32		S	Open	Closed	No	M-273-1/ B	MOTIVE-Instrument Air CONTROL-N/A	S
0170	10	D00-5741-0055-D05	CONTROL ROOM VENTILATION/ AFU Booster Fan Outlet Damper	M-3121/ 10/ D-5	Turbine	534' 0"	VENT RM2/3 G/32	SR	1	Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0171	10	D00-5741-0056-D05	CONTROL ROOM VENTILATION/ AFU Booster Fan Outlet Damper	M-3121/ 10/ D-5	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Closed	No	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0172	10	D00-5741-0057-D05	CONTROL ROOM VENTILATION/ AFU Recirculation Damper	M-3121/ 10/ B-7	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0173	10	D00-5741-0058-D05	CONTROL ROOM VENTILATION/ AFU Inlet Damper	M-3121/ 10/ D-8	Turbine	534' 0"	VENT RM2/3 G/32	SR	1	Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE/CONTROL-MCC 29-8	S
0174	10	D00-5741-0059AD05	CONTROL ROOM VENTILATION/ AHU Outlet Damper	M-3121/ 10/ B-5	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0175	10	D00-5741-0059BD05	CONTROL ROOM VENTILATION/ AHU Inlet Damper	M-3121/ 10/ B-5	Turbine	534' 0"	VENT RM2/3 G/32	SR		Closed	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0176	10	D00-9400-0100-F05	CONTROL ROOM VENTILATION/ Air Handling Unit	M-3121/ 10/ B-7	Turbine	534' 0"	VENT RM2/3 G/32	SR	6	Off	Operbl.	Yes	12E-6811A/ 5	MOTIVE/CONTROL-MCC 29-8	S
0177	11	D00-9400-0101-F10	CONTROL ROOM VENTILATION/ Air Filtration Unit	M-3121/ 10/ D-6	Turbine	534' 0"	VENT RM2/3 G/32	SR	1,5,6	Off	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S
0178	11	D00-9400-0102-R15	CONTROL ROOM VENTILATION/ Refrigeration Condensing Unit	M-3121/ 10/ B-4	Turbine	534' 0"	VENT RM2/3 G/32	SR	1,6	Off	Operbl.	Yes	12E-6811J/ 3	MOTIVE/CONTROL-MCC 29-8	S
0179	9	D00-9400-0104AF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	M-3121/ 10/ D-6	Turbine	534' 0"	VENT RM2/3 G/32	SR	1,6	Off	Operbl.	Yes	12E-6811A/ 5	MOTIVE-N/A CONTROL-MCC 29-8	S

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LINE NO.	TRAIN CLASS	EQUIP MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Fir. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. -->	POWER SUPPORTING SYS.	REQ'D INTERCONNECTIONS	REG. ISSUE			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	Normal	Desired	REQD?	DWG. NO./REV.	(15)	(16)	(17)
0180	9	D00-9400-01048F05	CONTROL ROOM VENTILATION/ AFU Booster Fan	M-3121/ 10/ D-6	Turbine	534' 0"	VENT RM2/3 G/32	SR	6	Off	Off	No	12E-6811A/ 5		MOTIVE-N/A CONTROL-MCC S	29-8
0181	88	D02-0302-0019AV27	CRD/ Backup Scram Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39		SR	Deenerg	Energy	Yes	12E-2465-2/ AD		MOTIVE-N/A CONTROL-125V S	DC TB Main Bus #2A-1
0182	88	D02-0302-00198V27	CRD/ Backup Scram Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39		SR	Deenerg	Energy	Yes	12E-2465-2/ AD		MOTIVE-N/A CONTROL-125V S	DC TB Main Bus #2B-1
0183	88	D02-0302-0020AV27	CRD/ Scram Dump Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39		SR	Energy	Deenerg	No	12E-2465-2/ AD		MOTIVE/CONTROL-N/A	S
0184	88	D02-0302-0020BV27	CRD/ Scram Dump Solenoid Valve	M-34-2/ B/ B-3	Reactor	517' 6"	L/39		SR	Energy	Deenerg	No	12E-2465-2/ AD		MOTIVE/CONTROL-N/A	S
0185	7	D02-0302-0157AV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-7	Reactor	476' 6"	TORUS BAY 8		S	Open	Closed	No	M-34/ BD		MOTIVE-Instrument Air CONTROL-N/A	S
0186	88	D02-0302-0157AV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-7	Reactor	476' 6"	TORUS BAY 8		SR	Deenerg	Energy	Yes	12E-6816B/ B		MOTIVE-N/A CONTROL-120V S	AC Instrument Bus 902-50
0187	7	D02-0302-0157BV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3		S	Open	Closed	No	M-34/ BD		MOTIVE-Instrument Air CONTROL-N/A	S
0188	88	D02-0302-0157BV27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3		SR	Deenerg	Energy	Yes	12E-6816B/ B		MOTIVE-N/A CONTROL-120V S	AC Instrument Bus 902-50
0189	7	D02-0302-0158AV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-8	Reactor	476' 6"	TORUS BAY 8		S	Open	Closed	No	M-34/ BD		MOTIVE-Instrument Air CONTROL-N/A	S
0190	88	D02-0302-0158AV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-8	Reactor	476' 6"	TORUS BAY 8		SR	Deenerg	Energy	Yes	12E-6816B/ B		MOTIVE-N/A CONTROL-120V S	AC Instrument Bus 902-50
0191	7	D02-0302-01588V05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-34-2/ B/ A-6	Reactor	476' 6"	TORUS BAY 3		S	Open	Closed	No	M-34/ BD		MOTIVE-Instrument Air CONTROL-N/A	S
0192	88	D02-0302-01588V27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-34-2/ B/ A-5	Reactor	476' 6"	TORUS BAY 3		SR	Deenerg	Energy	Yes	12E-6816B/ B		MOTIVE-N/A CONTROL-120V S	AC Instrument Bus 902-50
0193	7	D02-0302-0160AV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43		S	Open	Closed	No	M-34/ BD		MOTIVE-Instrument Air CONTROL-N/A	S
0194	88	D02-0302-0160AV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43		SR	Deenerg	Energy	Yes	12E-6816B/ B		MOTIVE-N/A CONTROL-120V S	AC Instrument Bus 902-50
0195	7	D02-0302-01608V05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39		S	Open	Closed	No	M-34/ BD		MOTIVE-Instrument Air CONTROL-N/A	S
0196	88	D02-0302-01608V27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39		SR	Deenerg	Energy	Yes	12E-6816B/ B		MOTIVE-N/A CONTROL-120V S	AC Instrument Bus 902-50

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0197	7	D02-0302-0161AV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	S		Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
0198	88	D02-0302-0161AV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-8	Reactor	517' 6"	DRY GALL K/43	SR		Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
0199	7	D02-0302-0161BV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39	S		Open	Closed	No	M-34/ BD	MOTIVE-Instrument Air CONTROL-N/A	S
0200	88	D02-0302-0161BV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-34-2/ B/ B-4	Reactor	545' 6"	L/39	SR		Deenerg	Energy	Yes	12E-6816B/ B	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 902-50	S
0201	0	D02-0305-----H20	CRD/ Hydraulic Control Unit	M-34-2/ B/ B-2	Reactor	517' 6"	J-K/38-39,43-44	S	3	N/A	N/A	No	N/A	N/A	S
0202	21	D02-0318-A----T05	CRD/ West Bank Scram Discharge Volume Tank	M-34-2/ B/ B-6	Reactor	517' 6"	J-L/43-44	S		N/A	N/A	No	N/A	N/A	S
0203	21	D02-0318-B----T05	CRD/ East Bank Scram Discharge Volume Tank	M-34-2/ B/ B-7	Reactor	517' 6"	J-L/38-39	S		N/A	N/A	No	N/A	N/A	S
0204	88	D03-0302-0019AV27	CRD/ Backup Scram Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Deenerg	Energy	Yes	12E-3467-3/ AC	MOTIVE-N/A CONTROL-125V S DC TB Main Bus #3A-1	S
0205	88	D03-0302-0019BV27	CRD/ Backup Scram Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Deenerg	Energy	Yes	12E-3467-3/ AC	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #3B-1	S
0206	88	D03-0302-0020AV25	CRD/ Scram Dump Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Energy	Deenerg	No	12E-3465-1/ X	MOTIVE/CONTROL-N/A	S
0207	88	D03-0302-0020BV27	CRD/ Scram Dump Solenoid Valve	M-365-2/ A/ C-3	Reactor	517' 6"	L/48	SR		Energy	Deenerg	No	12E-3465-1/ X	MOTIVE/CONTROL-N/A	S
0208	7	D03-0302-0157AV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
0209	88	D03-0302-0157AV27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
0210	7	D03-0302-0157BV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
0211	88	D03-0302-0157BV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
0212	7	D03-0302-0158AV05	CRD/ East Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-7	Reactor	476' 6"	TORUS BAY 4	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S
0213	88	D03-0302-0158AV27	CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ B-8	Reactor	476' 6"	TORUS BAY 4	SR		Deenerg	Energy	Yes	12E-7816A/ C	MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50	S
0214	7	D03-0302-0158BV05	CRD/ West Bank Scram Discharge Volume Drain Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	S		Open	Closed	No	M-365/ AAS	MOTIVE-Instrument Air CONTROL-N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12) (13) (14) (15) (16) (17)
0215	88	D03-0302-0158BV27	CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	M-365-2/ A/ A-5	Reactor	476' 6"	TORUS BAY 9	SR		Deenerg Energ Yes 12E-7816A/ C MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50
0216	7	D03-0302-0160AV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	S		Open Closed No M-365/ AAS MOTIVE-Instrument Air CONTROL-N/A S
0217	88	D03-0302-0160AV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	SR		Deenerg Energ Yes 12E-7816A/ C MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50
0218	7	D03-0302-0160BV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	S		Open Closed No M-365/ AAS MOTIVE-Instrument Air CONTROL-N/A S
0219	88	D03-0302-0160BV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	SR		Deenerg Energ Yes 12E-7816A/ C MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50
0220	7	D03-0302-0161AV05	CRD/ East Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	S		Open Closed No M-365/ AAS MOTIVE-Instrument Air CONTROL-N/A S
0221	88	D03-0302-0161AV27	CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-8	Reactor	517' 6"	DRY GALL J/45	SR		Deenerg Energ Yes 12E-7816A/ C MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50
0222	7	D03-0302-0161BV05	CRD/ West Bank Scram Discharge Volume Vent Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	S		Open Closed No M-365/ AAS MOTIVE-Instrument Air CONTROL-N/A S
0223	88	D03-0302-0161BV27	CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	M-365-2/ A/ B-4	Reactor	517' 6"	DRY GALL K/48	SR		Deenerg Energ Yes 12E-7816A/ C MOTIVE-N/A CONTROL-120V S AC Instrument Bus 903-50
0224	0	D03-0305-----H20	CRD/ Hydraulic Control Unit	M-365-2/ A/ C-1	Reactor	517' 6"	J-K/44-45,49-50	S	3	N/A N/A No N/A N/A
0225	21	D03-0409-A-----T05	CRD/ East Bank Scram Discharge Volume Tank	M-365-2/ A/ B-7	Reactor	517' 6"	J-L/44-45	S		N/A N/A No N/A N/A
0226	21	D03-0409-B-----T05	CRD/ West Bank Scram Discharge Volume Tank	M-365-2/ A/ B-6	Reactor	517' 6"	J-L/49-50	S		N/A N/A No N/A N/A
0227	12	D00-4600-B-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	M-173/ AF/ D-3	Reactor	504' 6"	DG RM2/3 N/46	S	6	N/A N/A No N/A N/A
0228	12	D00-4600-C-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	M-173/ AF/ D-4	Reactor	504' 6"	DG RM2/3 N/46	S	6	N/A N/A No N/A N/A
0229	12	D00-4600-G-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	M-173/ AF/ D-5	Reactor	504' 6"	DG RM2/3 N/46	S	6	N/A N/A No N/A N/A
0230	12	D00-4600-H-----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	M-173/ AF/ D-6	Reactor	504' 6"	DG RM2/3 N/46	S	6	N/A N/A No N/A N/A
0231	21	D00-5201-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Tank	M-41-2/ Q/ C-3	N/A	BGrade	N/A	S		N/A N/A No N/A N/A

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0232	21	D00-5202-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Day Tank	M-41-2/ Q/ D-2	Turbine	517' 6"	DG RM2/3 N/46	S	5	N/A	N/A	No	N/A	N/A	S
0233	5	D00-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	M-41-2/ Q/ D-2	Reactor	504' 6"	DG RM2/3 N/46	SR		Off	Operbl.	Yes	12E-2351B-1/ AF	MOTIVE-MCC 2(3)8-3 CONTROL-MCC 2(3)8-3, 125V DC TB Main Bus #2A-1, 3A-1	S
0234	10	D00-5772-0100-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ D-3	Reactor	504' 6"	DG RM2/3 N/46	S		Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0235	10	D00-5772-0101-D05	DIESEL GENERATOR/ Ventilation Fan Outlet Damper	M-974/ F/ D-3	Reactor	504' 6"	DG RM2/3 N/46	S		Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0236	9	D00-5790-----F10	DIESEL GENERATOR/ Room Ventilation Fan	M-974/ F/ D-3	Reactor	504' 6"	DG RM2/3 N/46	SR		Off	On	Yes	12E-2351B-2/ AM 12E-2351B-3/ AM	MOTIVE-MCC 2(3)8-1 CONTROL-MCC 2(3)8-1, 125V DC TB Main Bus #2A-1, 3A-1	S
0237	88	D00-5790--EP2-V27	DIESEL GENERATOR/ Vent. Fan Dampers Solenoid Valve	M-974/ F/ E-3	Reactor	504' 6"	DG PNL 2223-56	SR		Open	Closed	Yes	12E-2351B-2/ AM 12E-2351B-3/ AM	MOTIVE-MCC 2(3)8-1 CONTROL-MCC 2(3)8-1, 125V DC TB Main Bus #2A-1, 3A-1	S
0238	88	D00-5790-0003AV10	DIESEL GENERATOR/ Vent. Fan Inlet Damper Solen. Oper.	M-974/ F/ E-3	Reactor	504' 6"	DG RM2/3 N/46	S		Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0239	88	D00-5790-0003BV10	DIESEL GENERATOR/ Vent. Fan Outlet Damper Solen. Oper.	M-974/ F/ E-3	Reactor	504' 6"	DG RM2/3 N/46	S		Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0240	17	D00-6601-----G05	DIESEL GENERATOR/ Diesel Engine Driven Generator	M-518-2/ C/ C-3	Reactor	504' 6"	DG RM2/3 N/46	SR		Off	On	No	M-41-2/ Q M-173/ AF M-974/ F 12E-2337/ Q	MOTIVE-Diesel Fuel Oil, Start Up Air, DG Ventilation CONTROL-125V DC Pnl #2, 3	S
0241	12	D02-4600-8----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	M-173/ AF/ D-3	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
0242	12	D02-4600-C----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	M-173/ AF/ D-4	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
0243	12	D02-4600-G----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	M-173/ AF/ D-5	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
0244	12	D02-4600-H----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	M-173/ AF/ D-6	Turbine	528' 3"	DG RM2 G-H/35	S	6	N/A	N/A	No	N/A	N/A	S
0245	21	D02-5201-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Tank	M-41-2/ Q/ D-7	N/A	BGrade	N/A	S		N/A	N/A	No	N/A	N/A	S
0246	21	D02-5202-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Day Tank	M-41-2/ Q/ F-6	Turbine	528' 3"	DG RM2 G-H/35	S	5	N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0247	5	D02-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	M-41-2/ Q/ E-6	Turbine	517' 6"	DG RM2 G-H/35	SR		Off	Operbl.	Yes	12E-2350B-1/ Z	MOTIVE/CONTROL-MCC 29-2 S	
0248	10	D02-5772-0100-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ C-5	Turbine	538' 0"	G-H/34	S		Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0249	10	D02-5772-0101-D05	DIESEL GENERATOR/ Ventilation Fan Outlet Damper	M-974/ F/ C-5	Turbine	517' 6"	DG RM2 G-H/35	S		Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0250	10	D02-5772-0102-D05	DIESEL GENERATOR/ Normal Ventilation Duct Damper	M-974/ F/ C-5	Turbine	517' 6"	RFP RM G/35	S		Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0251	9	D02-5790-----F10	DIESEL GENERATOR/ Room Ventilation Fan	M-974/ F/ C-5	Turbine	517' 6"	DG RM2 G-H/35	SR		Off	On	Yes	12E-2350B-1/ Z	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
0252	88	D02-5790--EP2-V27	DIESEL GENERATOR/ Room Vent. Fan Dampers Solenoid Valve	M-974/ F/ C-5	Turbine	517' 6"	DG PNL 2252-47	SR		Deenerg	Energy	Yes	12E-2395/ L	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
0253	88	D02-5790--EP3-V27	DIESEL GENERATOR/ Normal Vent. Damper Solenoid Valve	M-974/ F/ C-5	Turbine	517' 6"	DG PNL 2252-47	SR		Deenerg	Energy	Yes	12E-2395/ L	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Main Bus #2A-1	S
0254	88	D02-5790-0003-V10	DIESEL GENERATOR/ Vent. Fan Damper Solenoid Operator	M-974/ F/ C-5	Turbine	538' 0"	G-H/35	S		Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0255	17	D02-6601-----G05	DIESEL GENERATOR/ Diesel Engine Driven Generator	M-518-1/ C/ C-3	Turbine	517' 6"	DG RM2 G-H/35	SR		Off	On	Yes	M-41-2/ Q M-173/ AF M-974/ F 12E-2350A-1/ AH	MOTIVE-Diesel Fuel Oil, S Start Up Air, DG Ventilation CONTROL-125V DC Bus #2B-1	
0256	12	D03-4600-B----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	M-173/ AF/ D-3	Turbine	528' 3"	DG RM3 G-H/55	S	6	N/A	N/A	No	N/A	N/A	S
0257	12	D03-4600-C----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	M-173/ AF/ D-4	Turbine	528' 3"	DG RM3 G-H/55	S	6	N/A	N/A	No	N/A	N/A	S
0258	12	D03-4600-G----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	M-173/ AF/ D-5	Turbine	528' 3"	DG RM3 G-H/55	S	6	N/A	N/A	No	N/A	N/A	S
0259	12	D03-4600-H----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	M-173/ AF/ D-6	Turbine	528' 3"	DG RM3 G-H/55	S	6	N/A	N/A	No	N/A	N/A	S
0260	21	D03-5201-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Tank	M-41-2/ Q/ A-7	N/A	BGrade	N/A	S		N/A	N/A	No	N/A	N/A	S
0261	21	D03-5202-----T05	DIESEL GENERATOR/ Diesel Fuel Oil Storage Day Tank	M-41-2/ Q/ C-5	Turbine	528' 3"	DG RM3 G-H/55	S	5	N/A	N/A	No	N/A	N/A	S
0262	5	D03-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	M-41-2/ Q/ B-6	Turbine	517' 6"	DG RM3 G-H/55	SR		Off	Operbl.	Yes	12E-3350B/ AK	MOTIVE/CONTROL-MCC 39-2 S	

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0263		10	D03-5772-0100-D05	DIESEL GENERATOR/ Ventilation Fan Inlet Damper	M-974/ F/ C-6	Turbine	538' 0"	H/54-55	S		Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0264		10	D03-5772-0101-D05	DIESEL GENERATOR/ Ventilation Fan Outlet Damper	M-974/ F/ C-5	Turbine	517' 6"	DG RM3 G-H/55	S		Closed	Open	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0265		10	D03-5772-0102-D05	DIESEL GENERATOR/ Normal Ventilation Duct Damper	M-974/ F/ C-5	Turbine	517' 6"	G/54	S		Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0266		9	D03-5790-----F10	DIESEL GENERATOR/ Room Ventilation Fan	M-974/ F/ C-5	Turbine	517' 6"	DG RM3 G-H/55	SR		Off	On	Yes	12E-3350B/ AK	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
0267		88	D03-5790--EP2-V27	DIESEL GENERATOR/ Room Vent. Fan Dampers Solenoid Valve	M-974/ F/ D-7	Turbine	517' 6"	DG PNL 2253-47	SR		Deenerg	Energy	Yes	12E-2595/ L	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #38-1	S
0268		88	D03-5790--EP3-V27	DIESEL GENERATOR/ Normal Vent. Damper Solenoid Valve	M-974/ F/ D-7	Turbine	517' 6"	DG PNL 2253-47	SR		Deenerg	Energy	Yes	12E-2595/ L	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Main Bus #3A-2	S
0269		88	D03-5790-0003-V10	DIESEL GENERATOR/ Vent. Fan Damper Solenoid Operator	M-974/ F/ C-7	Turbine	538' 0"	H/54-55	S		Open	Closed	No	M-974/ F	MOTIVE-Instrument Air CONTROL-N/A	S
0270		17	D03-6601-----G05	DIESEL GENERATOR/ Diesel Engine Driven Generator	M-518-3/ C/ C-3	Turbine	517' 6"	DG RM3 G-H/55	SR		Off	On	Yes	M-41-2/ Q M-173/ AF M-974/ F 12E-3350A-1/ AC	MOTIVE-Diesel Fuel Oil, S Start Up Air, DG Ventilation CONTROL-125V DC Bus #38-1	S
0271		20	D02-7828-1-1--P06	DISTRIBUTION PANELS/ Distribution Panel 28-1-1	N/A	Reactor	517' 6"	L/38	S	5,6	Energy	Energy	No	N/A	N/A	S
0272		20	D03-7838-1-1--P06	DISTRIBUTION PANELS/ Distribution Panel 38-1-1	N/A	Reactor	517' 6"	L-M/44	S	5	Energy	Energy	No	N/A	N/A	S
0273		18	D00-2350-A-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR	5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V DC TB Res Bus #28-1, 38-1	S
0274		18	D00-2350-B-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR	5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V DC TB Res Bus #28-1, 38-1	S
0275		18	D00-2350-C-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR	5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V DC TB Res Bus #28-1, 38-1	S
0276		18	D00-2350-D-----LS	HPCI/ Condensate Storage Tank Level Switch	M-35-1/ CH/ F-7	Turbine	517' 6"	RFP RM G/35	SR	5	Closed	Operbl.	Yes	12E-2527/ BC 12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V DC TB Res Bus #28-1, 38-1	S
0277		5	D02-2301-----T20	HPCI/ HPCI Turbine	M-51/ AY/ A-6	Reactor	476' 6"	HP RM2 N/45	S	5	Off	On	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0278	8A	D02-2301-0003-V20	HPCI/ Turbine Steam Line Valve	M-51/ AY/ A-9	Reactor	476' 6"	HP RM2 N/45	SR		Closed	Open	Yes	12E-2529-2/ AJ	MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S
0279	8A	D02-2301-0006-V20	HPCI/ Condensate Tank Supply to HPCI Pump Valve	M-51/ AY/ F-2	Reactor	476' 6"	HP RM2 N/44	SR	1	Open	Operbl.	Yes	12E-2329-1/ AH	MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S
0280	8A	D02-2301-0008-V20	HPCI/ HPCI Pump Injection Line Valve	M-51/ AY/ E-6	Turbine	517' 6"	X AREA G-H/41	SR		Closed	Open	Yes	12E-2529-1/ AH	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
0281	8A	D02-2301-0014-V20	HPCI/ HPCI Pump Test Line Valve	M-51/ AY/ C-6	Reactor	476' 6"	HP RM2 N/44	SR		Closed	Operbl.	Yes	12E-2530/ AA	MOTIVE-250V DC MCC Bus #2B CONTROL-250V DC Bus #2B, 125V DC Bus #2A-1, 2B-1	S
0282	8A	D02-2301-0035-V20	HPCI/ Suppression Pool Suction Line Valve	M-51/ AY/ E-1	Reactor	476' 6"	HP RM2 N/44	SR	1	Closed	Operbl.	Yes	12E-2530/ AA	MOTIVE-250V DC MCC Bus #2B CONTROL-Bus #2B, 125V DC #2A(B)-1, 24/48V DC #2(3)A	S
0283	8A	D02-2301-0036-V20	HPCI/ Suppression Pool Suction Line Valve	M-51/ AY/ E-9	Reactor	476' 6"	SW C.RM N/43-44	SR	1	Closed	Operbl.	Yes	12E-2530/ AA	MOTIVE 250V DC MCC Bus #2B CONTROL-Bus #2B, 125V DC #2A(B)-1, 24/48V DC #2(3)A	S
0284	5	D02-2301-0057-P30	HPCI/ HPCI Turbine Cooling Water Pump	M-51/ AY/ D-4	Reactor	476' 6"	HP RM2 N/44	SR		Off	On	Yes	12E-2531/ AG	MOTIVE/CONTROL-MCC 29-4	S
0285	5	D02-2301-CONDPP	HPCI/ Condenser Hotwell Condensate Pump	M-51/ AY/ E-2	Reactor	476' 6"	HP RM2 N/45	SR		Off	Operbl.	Yes	12E-2532/ AB	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
0286	18	D02-2301-PS4---PS	HPCI/ Emergency Bearing Oil Pump Pressure Switch	N/A	Reactor	476' 6"	HP RM2 N/45	SR	5	N/A	N/A	No	N/A	N/A	S
0287	5	D02-2302-----P30	HPCI/ HPCI Pump	M-51/ AY/ A-5	Reactor	476' 6"	HP RM2 N/45	S		Off	On	No	N/A	N/A	S
0288	21	D02-2320-GSC--H15	HPCI/ Gland Seal Condenser	M-51/ AY/ C-2	Reactor	476' 6"	HP RM2 N/45-46	S		N/A	N/A	No	N/A	N/A	S
0289	9	D02-2320-GSCE-F05	HPCI/ Gland Seal Condenser Exhaust Fan	M-51/ AY/ B-2	Reactor	476' 6"	HP RM2 N/45-46	SR		Off	On	Yes	12E-2532/ AB	MOTIVE-250V DC MCC Bus #2A CONTROL-250V DC Bus #2A, 125V DC Bus #2A-1, 2B-1	S
0290	18	D02-2351-A-----LS	HPCI/ Suppression Pool Water Level Switch	M-51/ AY/ D-7	Reactor	476' 6"	SW C.RM M/43	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-125V DC TB Res Bus #2B-1	S
0291	18	D02-2351-B-----LS	HPCI/ Suppression Pool Water Level Switch	M-51/ AY/ D-7	Reactor	476' 6"	SW C.RM M/43	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-125V DC TB Res Bus #2B-1	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0292	18	D02-2370-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0293	18	D02-2370-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0294	18	D02-2370-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0295	18	D02-2370-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0296	18	D02-2371-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0297	18	D02-2371-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0298	18	D02-2371-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0299	18	D02-2371-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0300	18	D02-2372-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0301	18	D02-2372-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0302	18	D02-2372-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0303	18	D02-2372-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0304	18	D02-2373-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0305	18	D02-2373-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0306	18	D02-2373-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0307	18	D02-2373-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-51/ AY/ F-3	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2527/ BC	MOTIVE-N/A CONTROL-120V S AC Panel 902-33	
0308	10	D02-5747-----H15	HPCI/ HPCI Emergency Air Cooler	M-22/ BY/ C-6	Reactor	476' 6"	HP RM2 N/45	SR		Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 29-4 S COOLING-Service Water System	
0309	18	D02-LCS1-----LS	HPCI/ Gland Seal Condenser Drain Pump Low Level Switch	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	SR	5	Closed	Operbl.	Yes	12E-2532/ AC	MOTIVE-N/A CONTROL-250V S DC MCC Bus #2A	

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr. Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0310	18	D02-LCS2-----LS	HPCI/ Gland Seal Condenser Drain Pump High Level Switch	M-51/ AY/ D-2	Reactor	476' 6"	HP RM2 N/45	SR	5	Open	Operbl.	Yes	12E-2528/ AT	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #2B-1	S
0311	10	D02-LOC	HPCI/ Lube Oil Cooler	M-51/ AY/ C-2	Reactor	476' 6"	HP RM2 N/45	S		N/A	N/A	No	N/A	N/A	S
0312	5	D03-2301-----T20	HPCI/ HPCI Turbine	M-374/ BJ/ A-6	Reactor	476' 6"	HP RM3 N/46-47	S	5	Off	On	No	N/A	N/A	S
0313	8A	D03-2301-0003-V20	HPCI/ Turbine Steam Line Valve	M-374/ BJ/ A-9	Reactor	476' 6"	HP RM3 N/46	SR		Closed	Open	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 3B-1	S
0314	8A	D03-2301-0006-V20	HPCI/ Condensate Tank Supply to HPCI Pump Valve	M-374/ BJ/ F-2	Reactor	476' 6"	HP RM3 N/46	SR	1	Open	Operbl.	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 3B-1	S
0315	8A	D03-2301-0008-V20	HPCI/ HPCI Pump Injection Line Valve	M-374/ BJ/ D-6	Turbine	517' 6"	X AREA G/46	SR		Closed	Open	Yes	12E-3529/ AE	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 3B-1	S
0316	8A	D03-2301-0014-V20	HPCI/ HPCI Pump Test Line Valve	M-374/ BJ/ C-6	Reactor	476' 6"	HP RM3 N/46	SR		Closed	Operbl.	Yes	12E-3530/ Q	MOTIVE-250V DC MCC Bus #38 CONTROL-250V DC Bus #38, 125V DC Bus #3A-1, 3B-1	S
0317	8A	D03-2301-0035-V20	HPCI/ Suppression Pool Suction Line Valve	M-374/ BJ/ E-1	Reactor	476' 6"	HP RM3 N/46	SR	1	Closed	Operbl.	Yes	12E-3530/ Q	MOTIVE-250V DC MCC Bus #38 CONTROL-Bus #38, 125V DC #3A(B)-1, 24/48V DC #2(3)B	S
0318	8A	D03-2301-0036-V20	HPCI/ Suppression Pool Suction Line Valve	M-374/ BJ/ E-9	Reactor	476' 6"	TORUS BSMT 15	SR	1	Closed	Operbl.	Yes	12E-3530/ Q	MOTIVE-250V DC MCC Bus #38 CONTROL-Bus #38, 125V DC #3A(B)-1, 24/48V DC #2(3)B	S
0319	5	D03-2301-0057-P30	HPCI/ HPCI Turbine Cooling Water Pump	M-374/ BJ/ D-4	Reactor	476' 6"	HP RM3 N/46	SR		Off	On	Yes	12E-3531/ X	MOTIVE/CONTROL-MCC 39-1	S
0320	5	D03-2301-CONDPP	HPCI/ Condenser Hotwell Condensate Pump	M-374/ BJ/ E-2	Reactor	476' 6"	HP RM3 N/46-47	SR		Off	Operbl.	Yes	12E-3532/ S	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 3B-1	S
0321	18	D03-2301-PS4---PS	HPCI/ Emergency Bearing Oil Pump Pressure Switch	N/A	Reactor	476' 6"	HP RM3 N/46-47	SR	5	N/A	N/A	No	N/A	N/A	S
0322	5	D03-2302-----P30	HPCI/ HPCI Pump	M-374/ BJ/ A-5	Reactor	476' 6"	HP RM3 N/46-47	S		Off	On	No	N/A	N/A	S
0323	21	D03-2320-GSC--H15	HPCI/ Gland Seal Condenser	M-374/ BJ/ C-2	Reactor	476' 6"	HP RM3 N/46-47	S		N/A	N/A	No	N/A	N/A	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0324	9	D03-2320-GSCE-F05	HPCI/ Gland Seal Condenser Exhaust Fan	M-374/ BJ/ B-2	Reactor	476' 6"	HP RM3 N/46	SR		Off	On	Yes	12E-3532/ S	MOTIVE-250V DC MCC Bus #3A CONTROL-250V DC Bus #3A, 125V DC Bus #3A-1, 3B-1	S
0325	18	D03-2351-A-----LS	HPCI/ Suppression Pool Water Level Switch	M-374/ BJ/ D-7	Reactor	476' 6"	SW C.RM M/49	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V DC TB Res Bus #38-1	S
0326	18	D03-2351-B-----LS	HPCI/ Suppression Pool Water Level Switch	M-374/ BJ/ D-7	Reactor	476' 6"	SW C.RM M/49	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-125V DC TB Res Bus #38-1	S
0327	18	D03-2370-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0328	18	D03-2370-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0329	18	D03-2370-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0330	18	D03-2370-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0331	18	D03-2371-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0332	18	D03-2371-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0333	18	D03-2371-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0334	18	D03-2371-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0335	18	D03-2372-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0336	18	D03-2372-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0337	18	D03-2372-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0338	18	D03-2372-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0339	18	D03-2373-A-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0340	18	D03-2373-B-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S
0341	18	D03-2373-C-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V AC Panel 903-33	S

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LINE NO.	EQUIP TRAIN CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0342	18	D03-2373-D-----TS	HPCI/ Steam Leak Detection Temperature Switch	M-374/ BJ/ F-3	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3527-1/ AH	MOTIVE-N/A CONTROL-120V S AC Panel 903-33	
0343	10	D03-5747-----H15	HPCI/ HPCI Emergency Air Cooler	M-355/ PC/ D-6	Reactor	476' 6"	HP RM3 N/46	SR		Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 39-1 S COOLING-Service Water System	
0344	18	D03-LCS1-----LS	HPCI/ Gland Seal Condenser Drain Pump Low Level Switch	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Closed	Operbl.	Yes	12E-3532/ T	MOTIVE-N/A CONTROL-250V S DC MCC Bus #3A	
0345	18	D03-LCS2-----LS	HPCI/ Gland Seal Condenser Drain Pump High Level Switch	M-374/ BJ/ D-2	Reactor	476' 6"	HP RM3 N/46-47	SR	5	Open	Operbl.	Yes	12E-3528-1/ AD	MOTIVE-N/A CONTROL-125V S DC TB Res Bus #38-1	
0346	10	D03-LOC	HPCI/ Lube Oil Cooler	M-374/ BJ/ C-2	Reactor	476' 6"	HP RM3 N/46-47	S		N/A	N/A	No	N/A	N/A	S
0347	21	D02-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-37-2/ RF/ E-8	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
0348	21	D03-4798-A----A10	INSTRUMENT AIR/ Target Rock Accumulator	M-367-2/ AH/ B-4	Reactor	537' 0"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
0349	18	D02-2202-0005-P05	INSTRUMENT RACKS/ Instrument Rack 2202-5	N/A	Reactor	545' 6"	E/39	S	5	N/A	N/A	No	N/A	N/A	S
0350	18	D02-2202-0006-P05	INSTRUMENT RACKS/ Instrument Rack 2202-6	N/A	Reactor	545' 6"	M/41	S	5	N/A	N/A	No	N/A	N/A	S
0351	18	D02-2202-0007-P05	INSTRUMENT RACKS/ Instrument Rack 2202-7	N/A	Reactor	517' 6"	K/39	S	5	N/A	N/A	No	N/A	N/A	S
0352	18	D02-2202-0008-P05	INSTRUMENT RACKS/ Instrument Rack 2202-8	N/A	Reactor	517' 6"	K/43	S	5	N/A	N/A	No	N/A	N/A	S
0353	18	D02-2202-0029-P05	INSTRUMENT RACKS/ Instrument Rack 2202-29	N/A	Reactor	476' 6"	HP RM2 N/45	S	5	N/A	N/A	No	N/A	N/A	S
0354	18	D02-2202-0036-P05	INSTRUMENT RACKS/ Instrument Rack 2202-36	N/A	Reactor	476' 6"	SW C.RM M/43	S	5	N/A	N/A	No	N/A	N/A	S
0355	18	D02-2202-0070AP05	INSTRUMENT RACKS/ Instrument Rack 2202-70A	N/A	Turbine	517' 6"	AEER 2202-70A	S	5,6	N/A	N/A	No	N/A	N/A	S
0356	18	D02-2202-0070BP05	INSTRUMENT RACKS/ Instrument Rack 2202-70B	N/A	Turbine	517' 6"	AEER 2202-70B	S	5,6	N/A	N/A	No	N/A	N/A	S
0357	18	D02-2202-0073AP05	INSTRUMENT RACKS/ Instrument Rack 2202-73A	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
0358	18	D02-2202-0073BP05	INSTRUMENT RACKS/ Instrument Rack 2202-73B	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
0359	18	D02-2252-0083-P05	INSTRUMENT RACKS/ Instrument Rack 2252-83	N/A	Reactor	545' 6"	N/39	S	5,6	N/A	N/A	No	N/A	N/A	S

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0360		18	D02-2252-0084-P05	INSTRUMENT RACKS/ Instrument Rack 2252-84	N/A	Reactor	545' 6"	N/42	S	5	N/A	N/A	No	N/A	N/A	S
0361		18	D03-2203-0005-P05	INSTRUMENT RACKS/ Instrument Rack 2203-5	N/A	Reactor	545' 6"	M/47	S	5	N/A	N/A	No	N/A	N/A	S
0362		18	D03-2203-0006-P05	INSTRUMENT RACKS/ Instrument Rack 2203-6	N/A	Reactor	545' 6"	K/49	S	5	N/A	N/A	No	N/A	N/A	S
0363		18	D03-2203-0007-P05	INSTRUMENT RACKS/ Instrument Rack 2203-7	N/A	Reactor	517' 6"	K/45	S	5	N/A	N/A	No	N/A	N/A	S
0364		18	D03-2203-0008-P05	INSTRUMENT RACKS/ Instrument Rack 2203-8	N/A	Reactor	517' 6"	K/49	S	5	N/A	N/A	No	N/A	N/A	S
0365		18	D03-2203-0029-P05	INSTRUMENT RACKS/ Instrument Rack 2203-29	N/A	Reactor	476' 6"	HP RM3 N/46	S	5	N/A	N/A	No	N/A	N/A	S
0366		18	D03-2203-0032-P05	INSTRUMENT RACKS/ Instrument Rack 2203-32	N/A	Reactor	545' 6"	L/46	S	5	N/A	N/A	No	N/A	N/A	S
0367		18	D03-2203-0036-P05	INSTRUMENT RACKS/ Instrument Rack 2203-36	N/A	Reactor	476' 6"	SW C.RM M/49	S	5	N/A	N/A	No	N/A	N/A	S
0368		18	D03-2203-0070AP05	INSTRUMENT RACKS/ Instrument Rack 2203-70A	N/A	Turbine	517' 6"	AEER 2203-70A	S	5,6	N/A	N/A	No	N/A	N/A	S
0369		18	D03-2203-0070BP05	INSTRUMENT RACKS/ Instrument Rack 2203-70B	N/A	Turbine	517' 6"	AEER 2203-70B	S	5,6	N/A	N/A	No	N/A	N/A	S
0370		18	D03-2203-0073AP05	INSTRUMENT RACKS/ Instrument Rack 2203-73A	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
0371		18	D03-2203-0073BP05	INSTRUMENT RACKS/ Instrument Rack 2203-73B	N/A	Turbine	538' 0"	H/35	S	5,6	N/A	N/A	No	N/A	N/A	S
0372		18	D03-2253-0083-P05	INSTRUMENT RACKS/ Instrument Rack 2253-83	N/A	Reactor	545' 6"	N/47	S	5	N/A	N/A	No	N/A	N/A	S
0373		18	D03-2253-0084-P05	INSTRUMENT RACKS/ Instrument Rack 2253-84	N/A	Reactor	545' 6"	N/48	S	5	N/A	N/A	No	N/A	N/A	S
0374		8A	D02-1501-0011AV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-29-1/ BC/ E-8	Reactor	476' 6"	SE C.RM M-N/38	SR	1	Open	Closed	Yes	12E-2440-2/ AC	MOTIVE/CONTROL-MCC 28-1	S
0375		8A	D02-1501-0011BV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-29-1/ BC/ E-2	Reactor	476' 6"	SW C.RM M-N/43	SR	1	Open	Closed	Yes	12E-2440-2/ AC	MOTIVE/CONTROL-MCC 29-4	S
0376		8A	D02-1501-0013AV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-29-1/ BC/ D-7	Reactor	476' 6"	TORUS BAY 1	SR	1	Open	Operbl.	Yes	12E-2440-2/ AC	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC Bus #2A-1, 24/48V DC Dist. Panel #2A	S

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SEISMIC REVIEW LIST

Data Base File Name/Date/Time: DRSEISEL.DBF / 06/06/96 12:11:20
Sort Criteria: Line Number
Filter Criteria: (Eval. Concern CONTAINS 'S')
Program File Name & Version: SSEM 2.2

LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0377		8A	D02-1501-00138V20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-29-1/ BC/ D-3	Reactor	476' 6"	TORUS BAY 11	SR	1	Open	Operbl.	Yes	12E-2440-2/ AC	MOTIVE-MCC 29-4 CONTROL-MCC 29-4, 125V DC Bus #2B-1, 24/48V DC Dist. Panel #3A	S
0378		8A	D02-1501-0020AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 1	SR	1	Closed	Open	Yes	12E-2441-2/ Z	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC TB Main Bus #2A-1	S
0379		8A	D02-1501-0020BV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	TORUS BAY 11	SR	1	Closed	Open	Yes	12E-2441-2/ Z	MOTIVE-MCC 29-1 CONTROL-MCC 29-1, 125V DC TB Res Bus #2B-1	S
0380		8A	D02-1501-0022AV20	LPCI/ LPCI Injection Line Valve	M-29-1/ BC/ B-7	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-2441-4/ AA	MOTIVE-MCC 28-7 CONTROL-MCC 28-7, 125V DC TB Main Bus #2A-1	S
0381		8A	D02-1501-0032AV20	LPCI/ LPCI Header Crosstie Line Valve	M-29-1/ BC/ D-8	Reactor	476' 6"	SE C.RM N/39	SR	1	Open	Closed	Yes	12E-2440-3/ AC	MOTIVE/CONTROL-MCC 28-1	S
0382		8A	D02-1501-0032BV20	LPCI/ LPCI Header Crosstie Line Valve	M-29-1/ BC/ D-2	Reactor	476' 6"	SW C.RM N/43	SR	1	Open	Closed	Yes	12E-2440-3/ AC	MOTIVE/CONTROL-MCC 29-4	S
0383		8A	D02-1501-0038AV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-8	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-2441-1/ Y	MOTIVE-MCC 28-1 CONTROL-MCC 28-1, 125V DC TB Main Bus #2A-1	S
0384		8A	D02-1501-0038BV20	LPCI/ Suppression Chamber Spray Line Valve	M-29-1/ BC/ B-2	Reactor	476' 6"	TORUS BAY 10	SR	1	Closed	Open	Yes	12E-2441-1/ Y	MOTIVE-MCC 29-4 CONTROL-MCC 29-4, 125V DC TB Res Bus #2B-1	S
0385		6	D02-1502-A----P30	LPCI/ LPCI Injection Pump "A"	M-29-1/ BC/ F-7	Reactor	476' 6"	SE C.RM N/39	SR	1,2	Off	On	Yes	12E-2436-1/ AA	MOTIVE-4160V AC Switchgear 23-1 CONTROL-125V DC Bus #2A-1, RB Dist. Panel #2	S
0386		6	D02-1502-B----P30	LPCI/ LPCI Injection Pump "B"	M-29-1/ BC/ E-7	Reactor	476' 6"	SE C.RM N/39	SR	1,2	Off	On	Yes	12E-2436-1/ AA	MOTIVE-4160V AC Switchgear 23-1 CONTROL-125V DC Bus #2A-1, RB Dist. Panel #2	S
0387		6	D02-1502-C----P30	LPCI/ LPCI Injection Pump "C"	M-29-1/ BC/ E-3	Reactor	476' 6"	SW C.RM N/43	SR	1,2	Off	On	Yes	12E-2436-2/ Y	MOTIVE-4160V AC Switchgear 24-1 CONTROL-125V DC TB Res Bus #2B-1	S
0388		6	D02-1502-D----P30	LPCI/ LPCI Injection Pump "D"	M-29-1/ BC/ F-3	Reactor	476' 6"	SW C.RM N/43	SR	1,2	Off	On	Yes	12E-2436-2/ Y	MOTIVE-4160V AC Switchgear 24-1 CONTROL-125V DC TB Res Bus #2B-1	S
0389		21	D02-1503-A----H15	LPCI/ LPCI Heat Exchanger	M-29-1/ BC/ F-8	Reactor	476' 6"	SE C.RM M-N/38	S		N/A	N/A	No	N/A	N/A	S

SEISMIC QUALIFICATION ACTIVITIES GROUP (SQUG)
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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. ST. --> Normal Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0390		21	D02-1503-B----H15	LPCI/ LPCI Heat Exchanger	M-29-1/ BC/ F-2	Reactor	476' 6"	SW C.RM M-N/43	S		N/A	N/A	No	N/A	N/A	S
0391		10	D02-5746-A----H15	LPCI/ LPCI Emergency Room Air Cooler	M-22/ BY/ C-7	Reactor	476' 6"	SE C.RM M/38	SR	1	Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 28-1 COOLING-Service Water System	S
0392		10	D02-5746-B----H15	LPCI/ LPCI Emergency Room Air Cooler	M-22/ BY/ C-7	Reactor	476' 6"	SW C.RM M/44	SR	1	Off	On	Yes	12E-2393/ X M-22/ BV	MOTIVE/CONTROL-MCC 29-4 COOLING-Service Water System	S
0393		8A	D03-1501-0011AV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-360-1/ UR/ E-2	Reactor	476' 6"	SE C.RM M-N/44	SR	1	Open	Closed	Yes	12E-3440-2/ X	MOTIVE/CONTROL-MCC 38-4	S
0394		8A	D03-1501-0011BV20	LPCI/ LPCI Heat Exchanger Bypass Line Valve	M-360-1/ UR/ E-8	Reactor	476' 6"	SW C.RM M-N/49	SR	1	Open	Closed	Yes	12E-3440-2/ X	MOTIVE/CONTROL-MCC 39-1	S
0395		8A	D03-1501-0013AV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-360-1/ UR/ C-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Open	Operbl.	Yes	12E-3440-2/ X	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC Bus #3A-1, 24/48V DC Dist. Panel #2B	S
0396		8A	D03-1501-0013BV20	LPCI/ LPCI Minimum Flow Bypass Line Valve	M-360-1/ UR/ C-8	Reactor	476' 6"	TORUS BAY 10	SR	1	Open	Operbl.	Yes	12E-3440-2/ X	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC Bus #3B-1, 24/48V DC Dist. Panel #3B	S
0397		8A	D03-1501-0020AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-3441-2/ R	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC TB Main Bus #3A-1	S
0398		8A	D03-1501-0020BV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-8	Reactor	476' 6"	TORUS BAY 10	SR	1	Closed	Open	Yes	12E-3441-2/ R	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC TB Res Bus #3B-1	S
0399		8A	D03-1501-0022AV20	LPCI/ LPCI Injection Line Valve	M-360-1/ UR/ B-3	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-3437A/ S	MOTIVE-MCC 38-7 CONTROL MCC 38-7, 125V DC TB Main Bus #3A-1	S
0400		8A	D03-1501-0032AV20	LPCI/ LPCI Header Crosstie Line Valve	M-360-1/ UR/ D-2	Reactor	476' 6"	SE C.RM N/45	SR	1	Open	Closed	Yes	12E-3440-3/ W	MOTIVE/CONTROL-MCC 38-4	S
0401		8A	D03-1501-0032BV20	LPCI/ LPCI Header Crosstie Line Valve	M-360-1/ UR/ D-8	Reactor	476' 6"	SW C.RM N/49	SR	1	Open	Closed	Yes	12E-3440-3/ W	MOTIVE/CONTROL-MCC 39-1	S
0402		8A	D03-1501-0038AV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-2	Reactor	476' 6"	TORUS BAY 2	SR	1	Closed	Open	Yes	12E-3441-1/ Q	MOTIVE-MCC 38-4 CONTROL-MCC 38-4, 125V DC TB Main Bus #3A-1	S
0403		8A	D03-1501-0038BV20	LPCI/ Suppression Chamber Spray Line Valve	M-360-1/ UR/ B-8	Reactor	476' 6"	TORUS BAY 10	SR	1	Closed	Open	Yes	12E-3441-1/ Q	MOTIVE-MCC 39-1 CONTROL-MCC 39-1, 125V DC TB Res Bus #3B-1	S

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LINE NO.	TRAIN	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQ'D?	SUPPORTING SYS. DWG. NO./REV.	REQ'D INTERCONNECTIONS & SUPPORTING COMPONENTS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
0404		6	D03-1502-A----P30	LPCI/ LPCI Injection Pump "A"	M-360-1/ UR/ F-3	Reactor	476' 6"	SE C.RM N/45	SR	1,2	Off	On	Yes	12E-3436-1/ P	MOTIVE-4160V AC Switchgear 33-1 CONTROL-125V DC Bus #3A-1, RB Dist. Panel #3	S
0405		6	D03-1502-B----P30	LPCI/ LPCI Injection Pump "B"	M-360-1/ UR/ E-3	Reactor	476' 6"	SE C.RM N/45	SR	1,2	Off	On	Yes	12E-3436-2/ P	MOTIVE-4160V AC Switchgear 33-1 CONTROL-125V DC Bus #3A-1, RB Dist. Panel #3	S
0406		6	D03-1502-C----P30	LPCI/ LPCI Injection Pump "C"	M-360-1/ UR/ E-7	Reactor	476' 6"	SW C.RM N/49	SR	1,2	Off	On	Yes	12E-3436-3/ Q	MOTIVE-4160V AC Switchgear 34-1 CONTROL-125V DC TB Res Bus #3B-1	S
0407		6	D03-1502-D----P30	LPCI/ LPCI Injection Pump "D"	M-360-1/ UR/ F-7	Reactor	476' 6"	SW C.RM N/49	SR	1,2	Off	On	Yes	12E-3436-4/ Q	MOTIVE-4160V AC Switchgear 34-1 CONTROL-125V DC TB Res Bus #3B-1	S
0408		21	D03-1503-A----H15	LPCI/ LPCI Heat Exchanger	M-360-1/ UR/ F-2	Reactor	476' 6"	SE C.RM M-N/44	S		N/A	N/A	No	N/A	N/A	S
0409		21	D03-1503-B----H15	LPCI/ LPCI Heat Exchanger	M-360-1/ UR/ F-8	Reactor	476' 6"	SW C.RM M-N/49	S		N/A	N/A	No	N/A	N/A	S
0410		10	D03-5746-A----H15	LPCI/ LPCI Emergency Room Air Cooler	M-355/ PC/ C-6	Reactor	476' 6"	SE C.RM M/44	SR	1	Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 38-1 COOLING-Service Water System	S
0411		10	D03-5746-B----H15	LPCI/ LPCI Emergency Room Air Cooler	M-355/ PC/ C-6	Reactor	476' 6"	SW C.RM M/50	SR	1	Off	On	Yes	12E-3393/ N M-355/ PB	MOTIVE/CONTROL-MCC 39-1 COOLING-Service Water System	S
0412		7	D02-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
0413		7	D02-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
0414		7	D02-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
0415		7	D02-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-12-1/ NR	MOTIVE-Accumulator Air CONTROL-N/A	S
0416		88	D02-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S
0417		88	D02-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S
0418		88	D02-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S

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LINE NO.	TRAIN CLASS	EQUIP CLASS	MARK NO.	SYSTEM/EQUIPMENT DESCRIPTION	Dwg. No./Rev./Zone	Building	EQUIPMENT Flr.Elv.	LOCATION Rm. or Row/Col.	SORT	NOTES	OP. Normal	ST. Desired	POWER REQD?	SUPPORTING SYS. DWG. NO./REV.	SYS. & SUPPORTING COMPONENTS	REQ'D INTERCONNECTIONS	REG. ISSUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
0419		88	D02-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S	
0420		88	D02-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S	
0421		88	D02-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S	
0422		88	D02-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-1/ S	MOTIVE/CONTROL-N/A	S	
0423		88	D02-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-2504-2/ U	MOTIVE/CONTROL-N/A	S	
0424		21	D02-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ E-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S	
0425		21	D02-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ D-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S	
0426		21	D02-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ C-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S	
0427		21	D02-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-12-1/ NR/ B-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S	
0428		7	D03-0203-0001AV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S	
0429		7	D03-0203-0001BV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S	
0430		7	D03-0203-0001CV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S	
0431		7	D03-0203-0001DV05	MAIN STEAM/ Isolation Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S		Open	Closed	No	M-345-1/ AH	MOTIVE-Accumulator Air CONTROL-N/A	S	
0432		88	D03-0203-001A1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S	
0433		88	D03-0203-001A2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S	
0434		88	D03-0203-001B1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S	
0435		88	D03-0203-001B2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S	
0436		88	D03-0203-001C1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S	

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)	(12)	(13)	(14)	(15)	(16)	(17)
0437	8B	D03-0203-001C2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
0438	8B	D03-0203-001D1V27	MAIN STEAM/ Isolation DC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-1/ Q	MOTIVE/CONTROL-N/A	S
0439	8B	D03-0203-001D2V27	MAIN STEAM/ Isolation AC Solenoid Valve	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	SR		Energ	Deenerg	No	12E-3504-2/ S	MOTIVE/CONTROL-N/A	S
0440	21	D03-0220-0082AA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ E-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
0441	21	D03-0220-0082BA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ D-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
0442	21	D03-0220-0082CA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ C-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
0443	21	D03-0220-0082DA10	MAIN STEAM/ Isolation Valve Accumulator	M-345-1/ AH/ B-4	Reactor	515' 5"	DRYWELL	S		N/A	N/A	No	N/A	N/A	S
0444	8A	D02-0202-0005AV20	REACTOR RECIRCULATION/ Recirc Pump A Discharge Valve	M-26-2/ HT/ D-5	Reactor	515' 5"	DRYWELL	SR		Open	Closed	Yes	12E-2420A/ W	MOTIVE/CONTROL-MCC 28-7	S
0445	8A	D02-0202-0009AV20	REACTOR RECIRCULATION/ Recirc Crosstie Bypass Valve	M-26-2/ HT/ B-5	Reactor	515' 5"	DRYWELL	SR		Open	Closed	Yes	12E-2420A/ W	MOTIVE/CONTROL-MCC 28-7	S
0446	8A	D03-0202-0005AV20	REACTOR RECIRCULATION/ Recirc Pump A Discharge Valve	M-357-2/ AM/ D-6	Reactor	515' 5"	DRYWELL	SR		Open	Closed	Yes	12E-3420A/ T	MOTIVE/CONTROL-MCC 38-7	S
0447	5	D00-3903-----P30	SERVICE WATER/ Diesel Generator Cooling Water Pump	M-355/ PC/ A-9	C. House	490' 8"	A-B/4	SR		Off	On	Yes	12E-2351B-1/ AF	MOTIVE-MCC 2(3)8-3 CONTROL-MCC 2(3)8-3, 125V DC TB Main Bus #2A-1, 3A-1	S
0448	5	D02-3903-----P30	SERVICE WATER/ Diesel Generator Cooling Water Pump	M-22/ BY/ B-10	C. House	490' 8"	A-B/4	SR		Off	On	Yes	12E-2350B-1/ Z	MOTIVE-MCC 29-2 CONTROL-MCC 29-2, 125V DC TB Res Bus #2B-1	S
0449	5	D03-3903-----P30	SERVICE WATER/ Diesel Generator Cooling Water Pump	M-355/ PC/ B-10	C. House	490' 8"	A/5	SR		Off	On	Yes	12E-3350B/ AK	MOTIVE-MCC 39-2 CONTROL-MCC 39-2, 125V DC TB Res Bus #3B-1	S

APPENDIX B

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) SEISMIC DESIGN BASIS SPECTRA

The following provides the Safe Shutdown Earthquake Ground Response Spectrum and the generated In-Structure Response Spectra for Dresden Station, Units 2 & 3.

Commonwealth Edison Company
Dresden Nuclear Power Station
Ground Response Spectrum for SSE

BUILDING : Ground
ELEVATION : 517.5'
DIRECTION : Horizontal

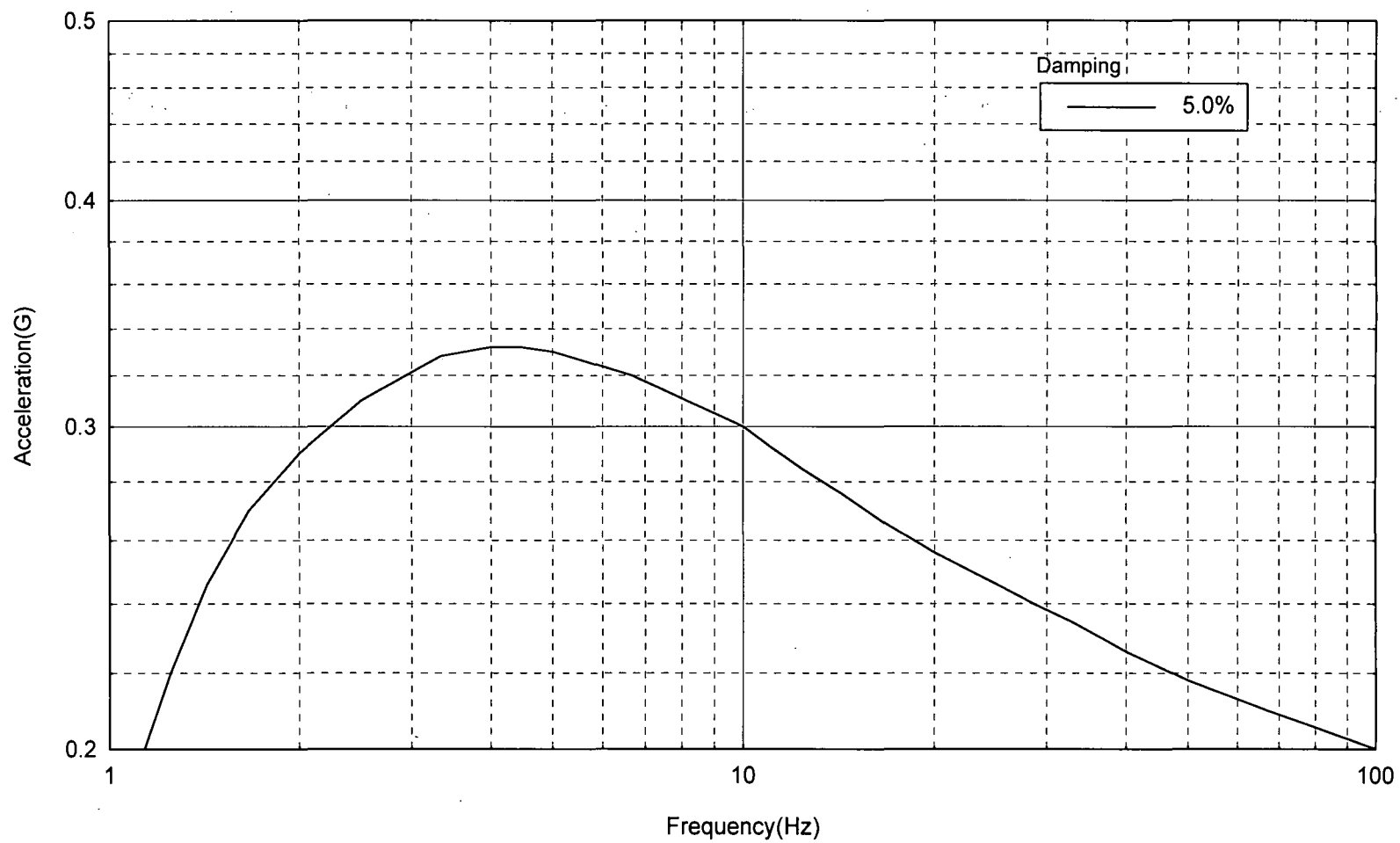


Figure B-1

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 517.5'
DIRECTION : East-West

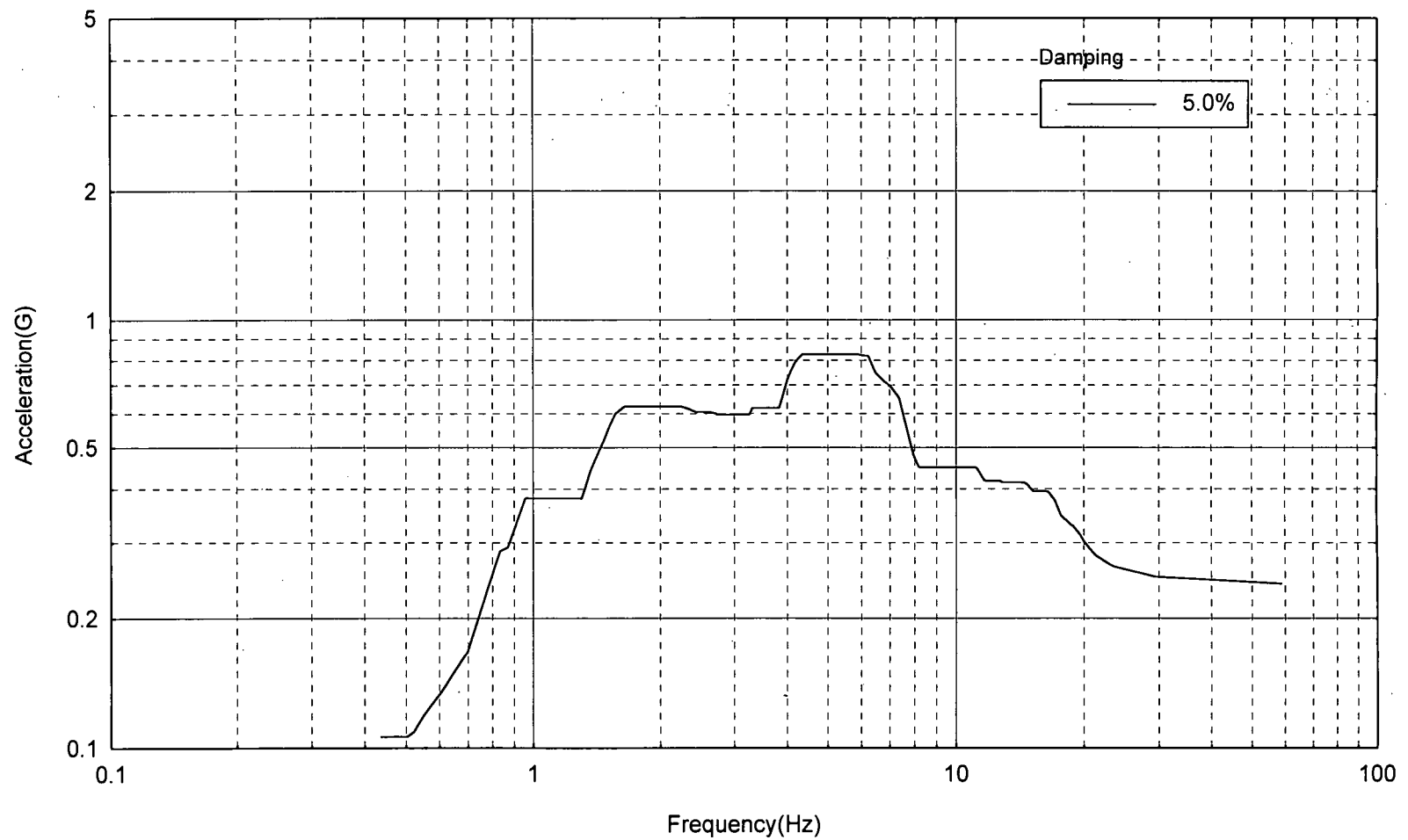


Figure B-2

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 517.5'
DIRECTION : North-South

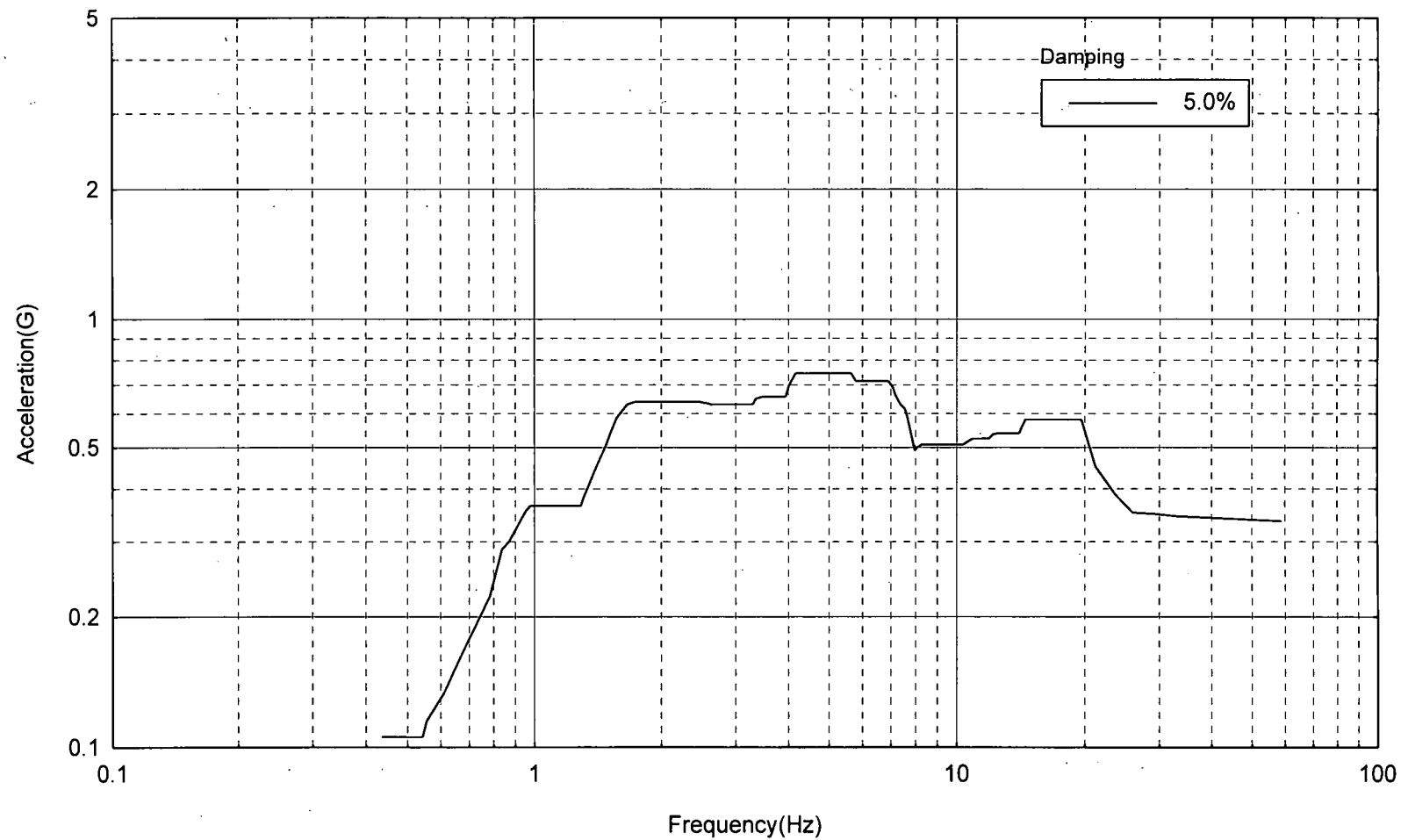


Figure B-3

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 545.5'
DIRECTION : East-West

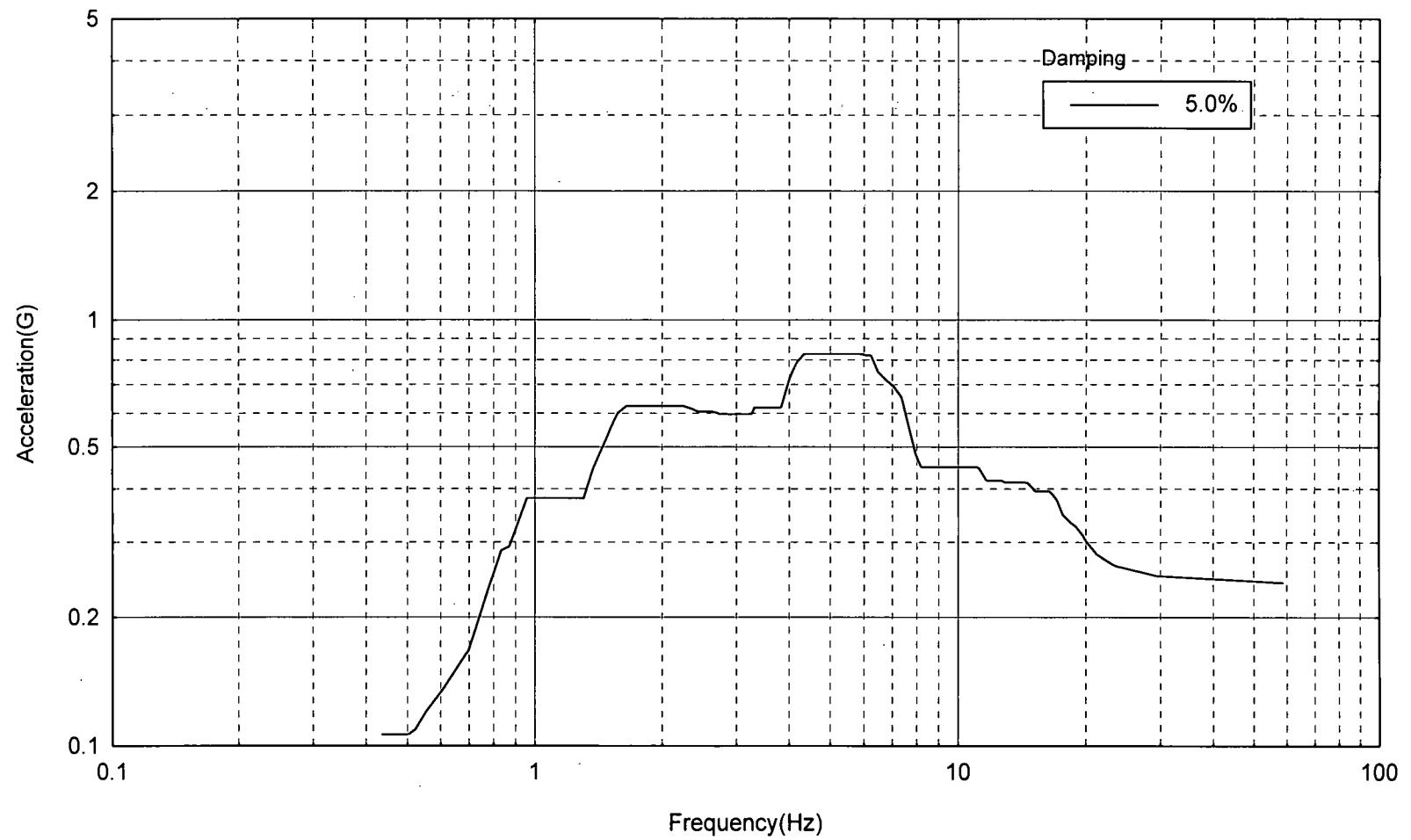


Figure B-4

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 545.5'
DIRECTION : North-South

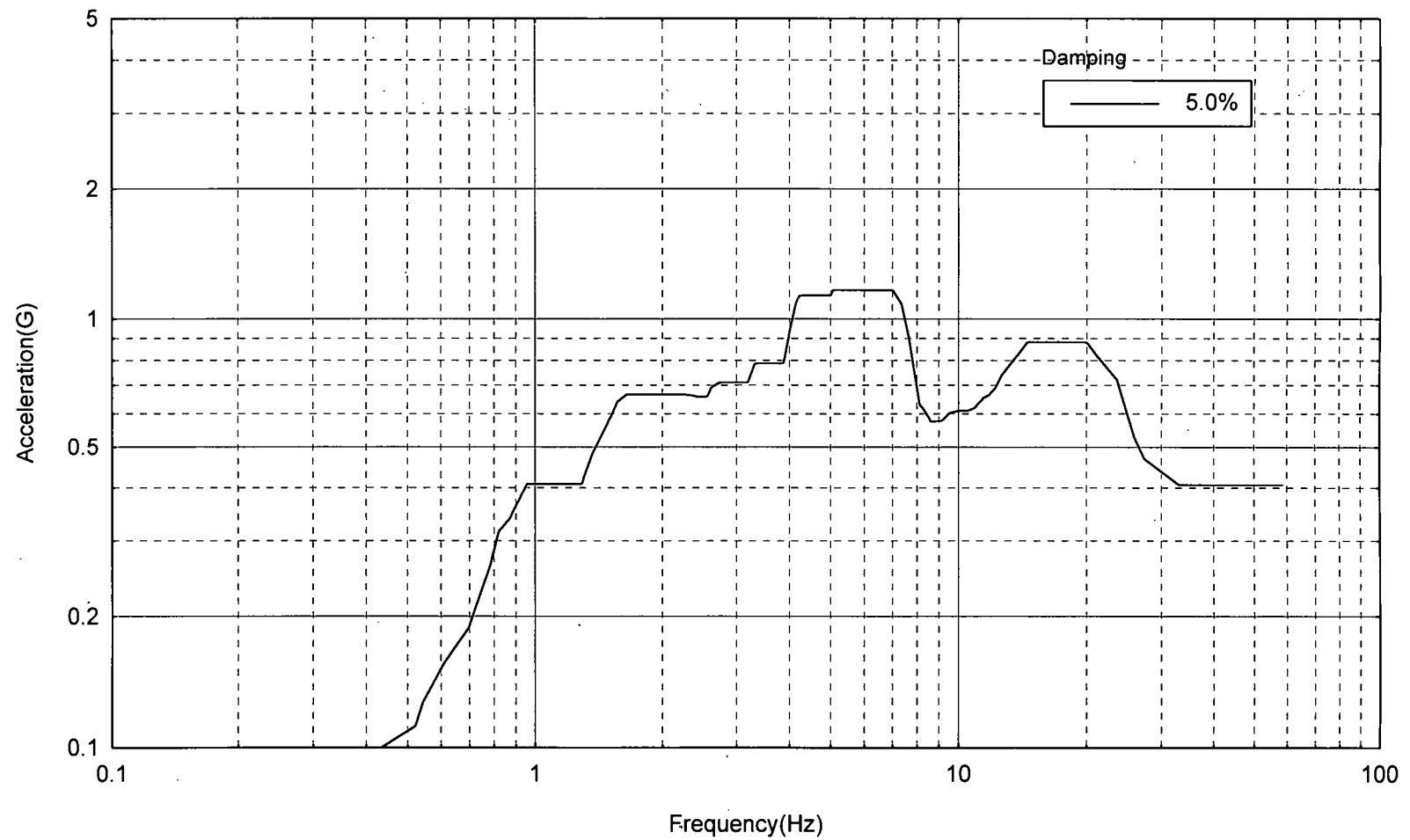


Figure B-5

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 570.0'
DIRECTION : East-West

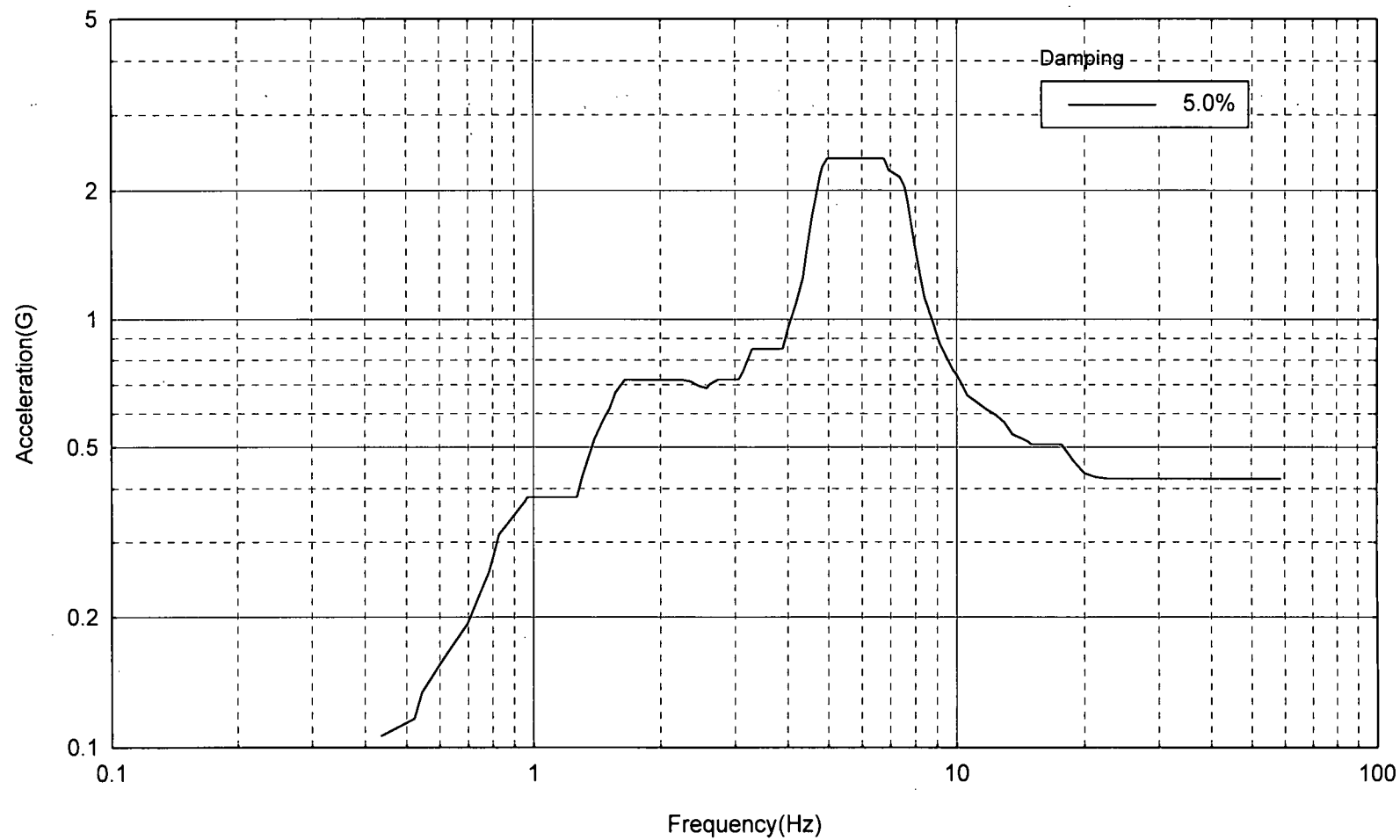


Figure B-6

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 570.0'
DIRECTION : North-South

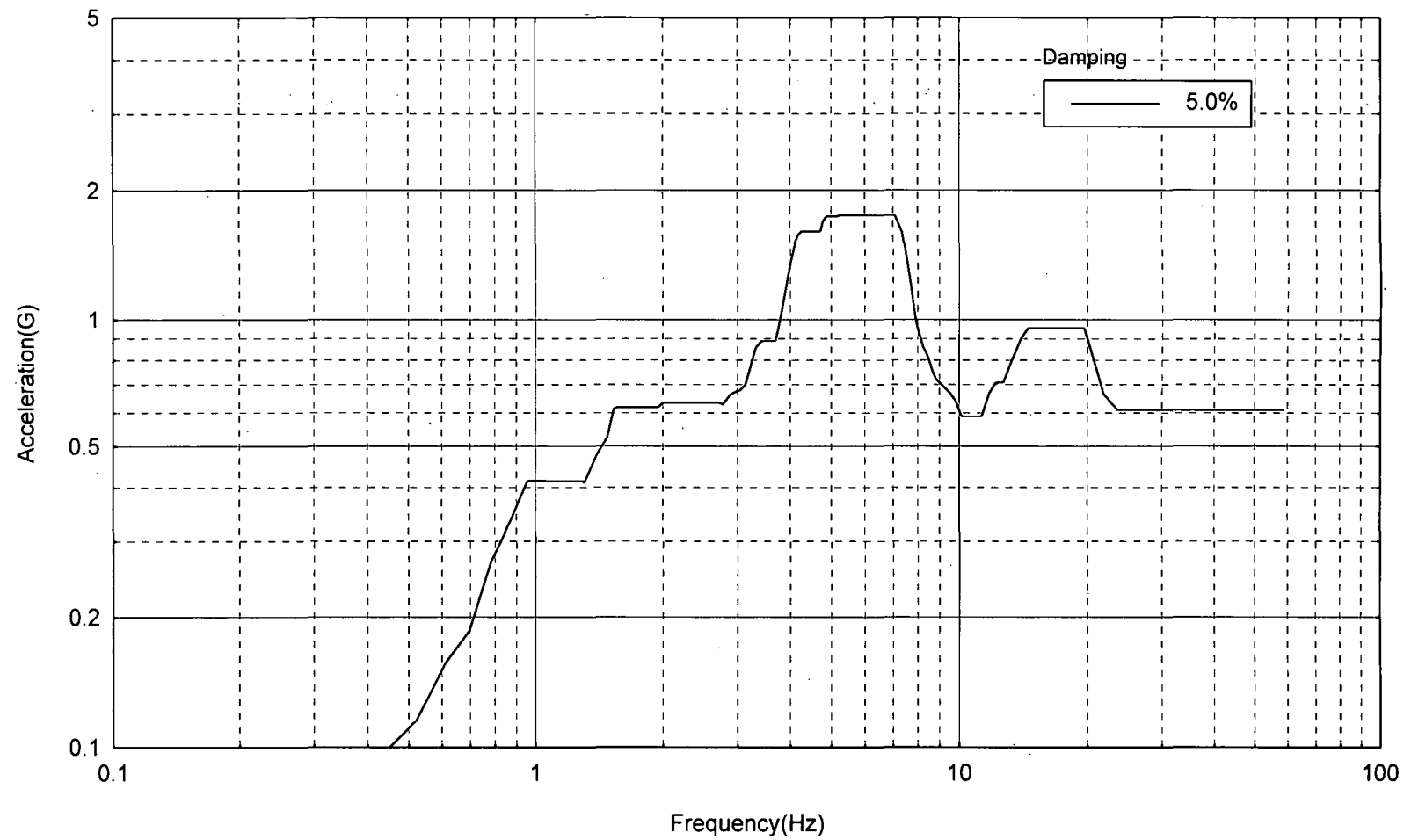


Figure B-7

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 589.0'
DIRECTION : East-West

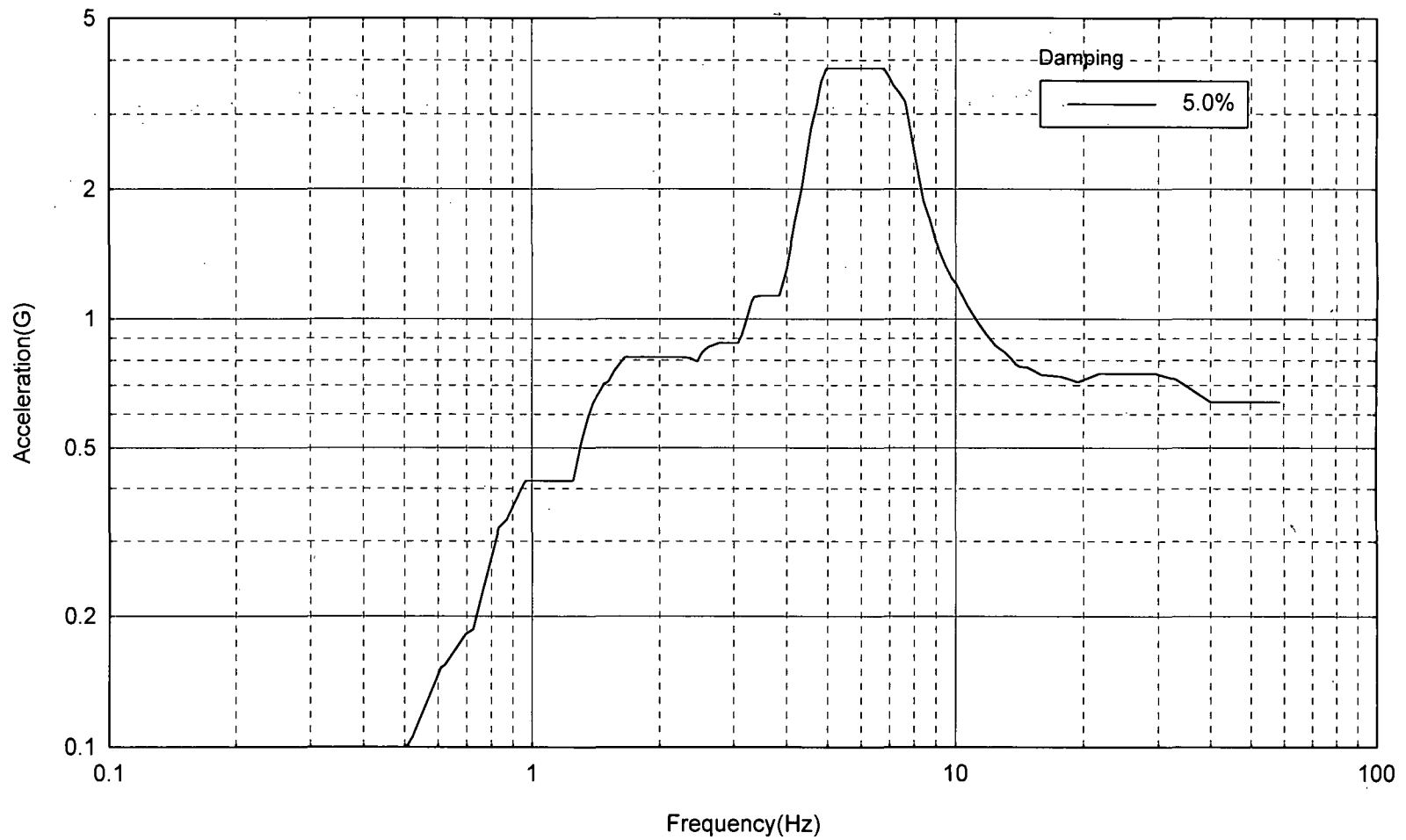


Figure B-8

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Reactor
ELEVATION : 589.0'
DIRECTION : North-South

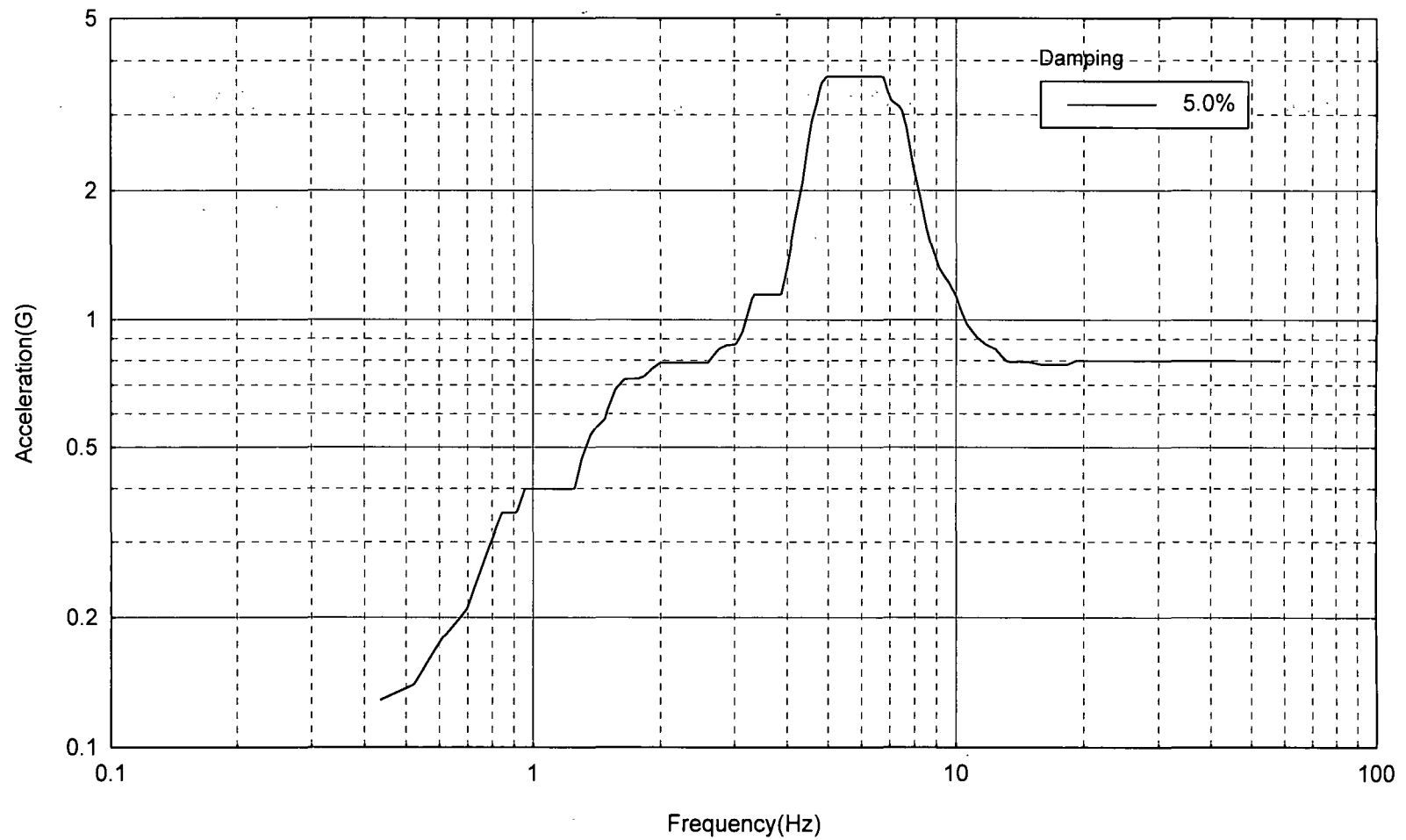


Figure B-9

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Turbine
ELEVATION : 538.0'
DIRECTION : East-West

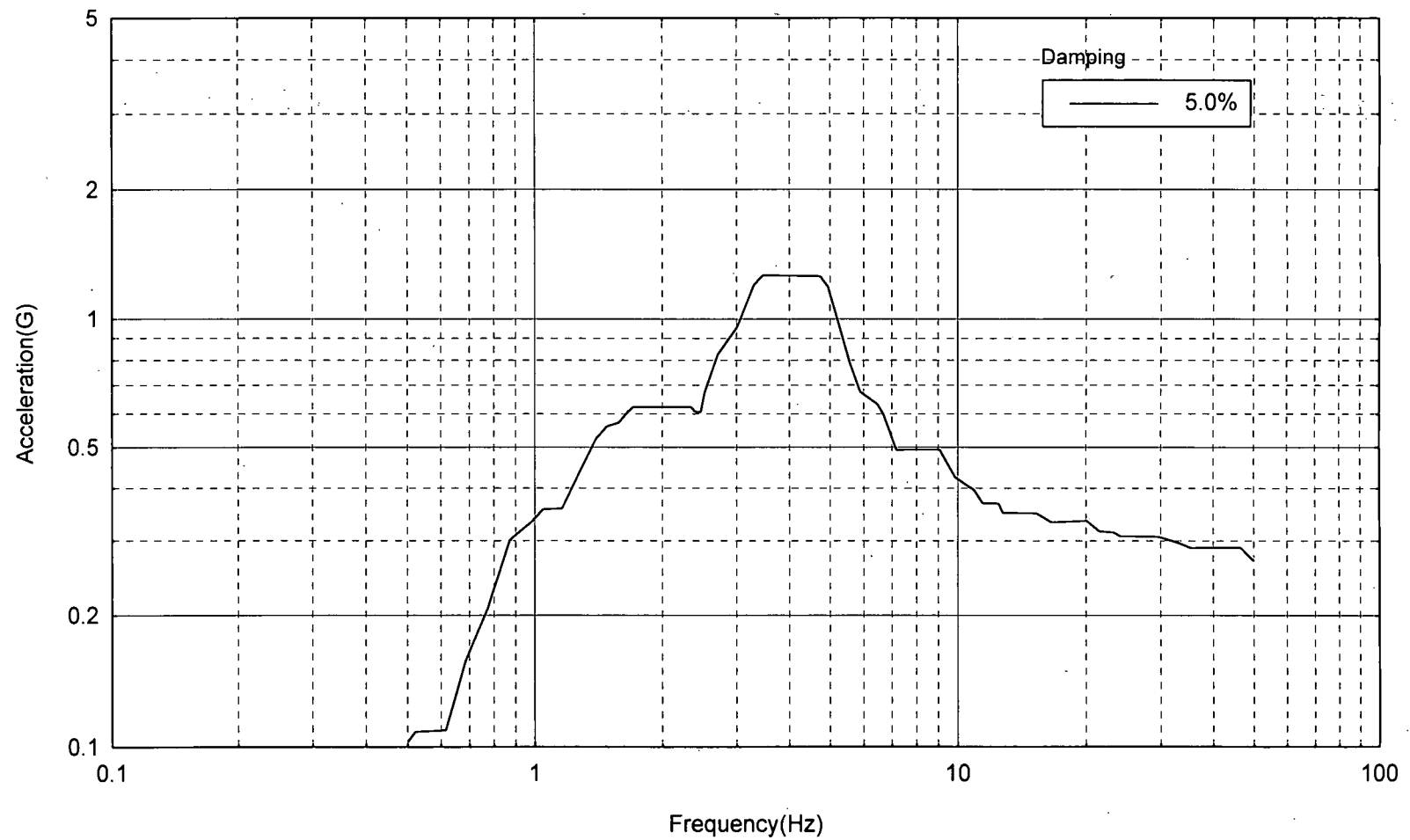


Figure B-10

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Turbine
ELEVATION : 538.0'
DIRECTION : North-South

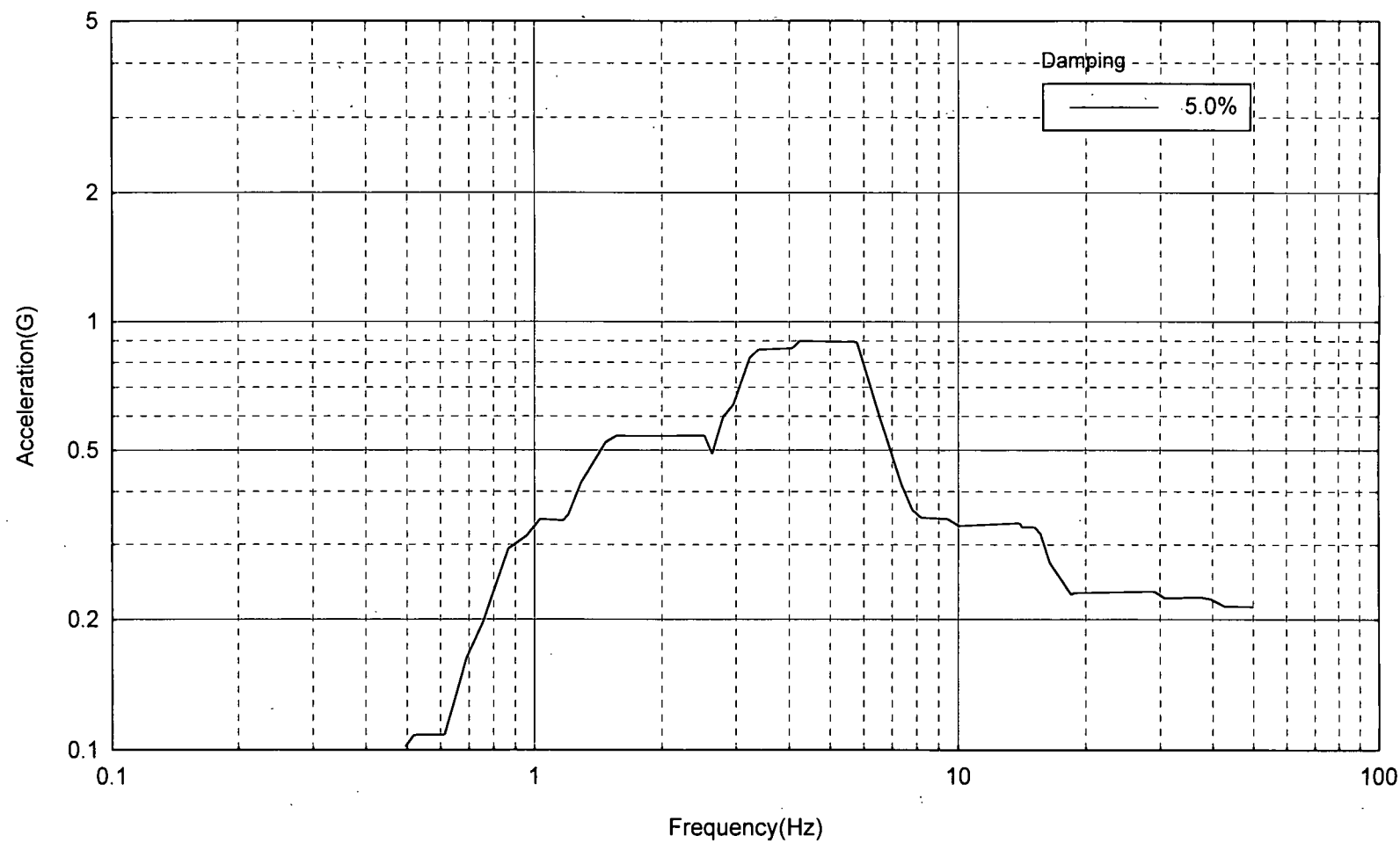


Figure B-11

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Turbine
ELEVATION : 561.5'
DIRECTION : East-West

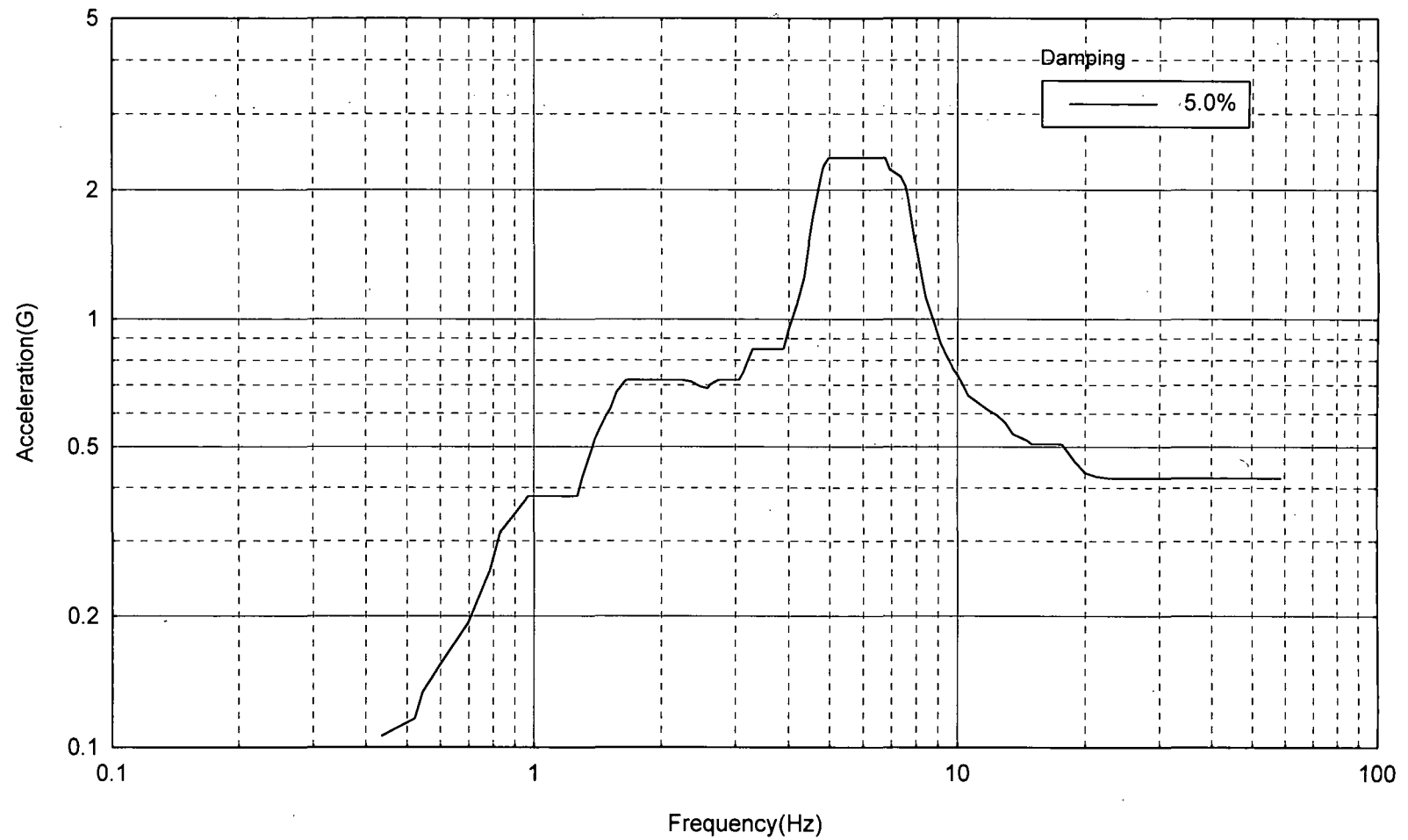


Figure B-12

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Turbine
ELEVATION : 561.5'
DIRECTION : North-South

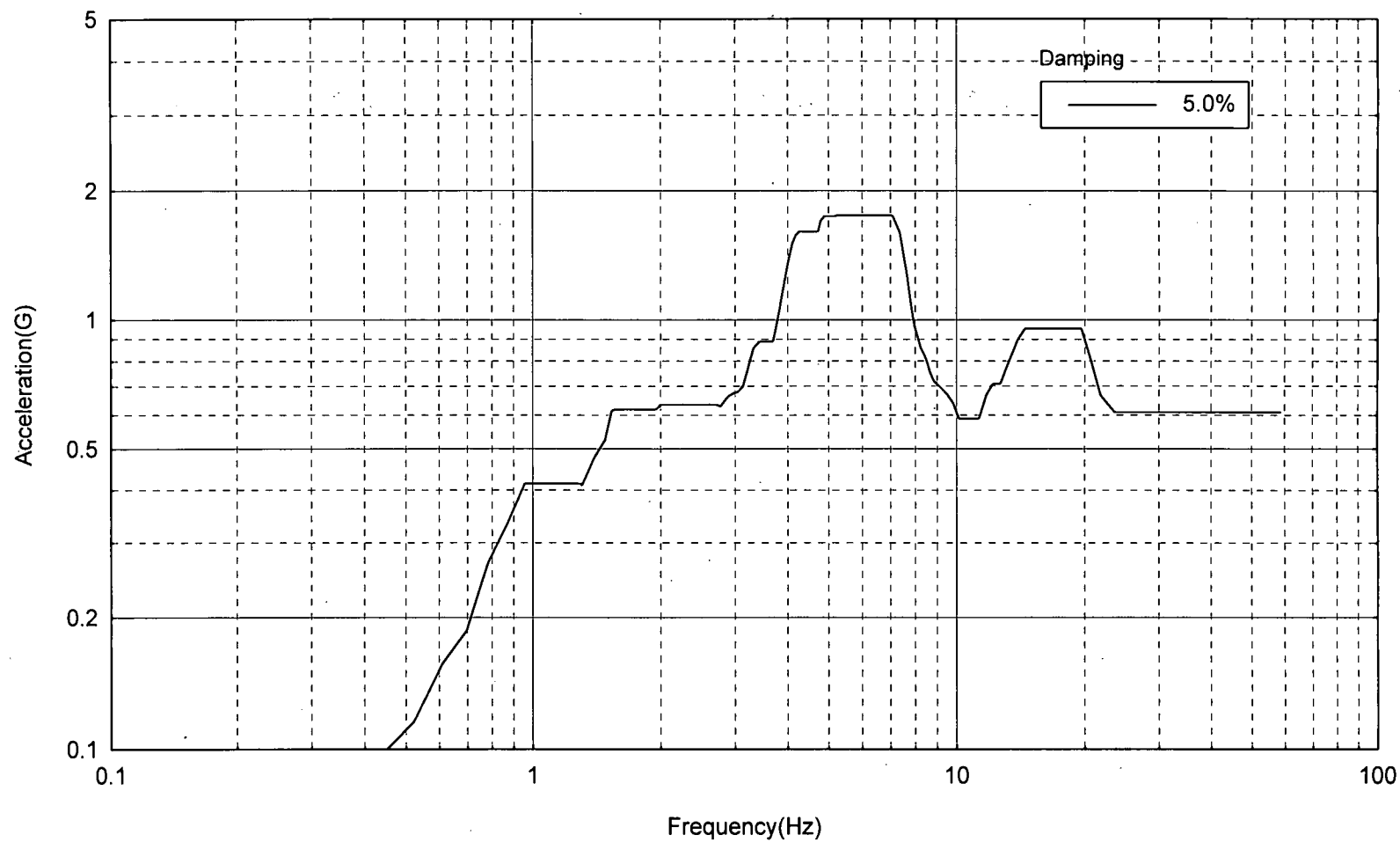


Figure B-13

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Control Room
ELEVATION : 534.0'
DIRECTION : East-West

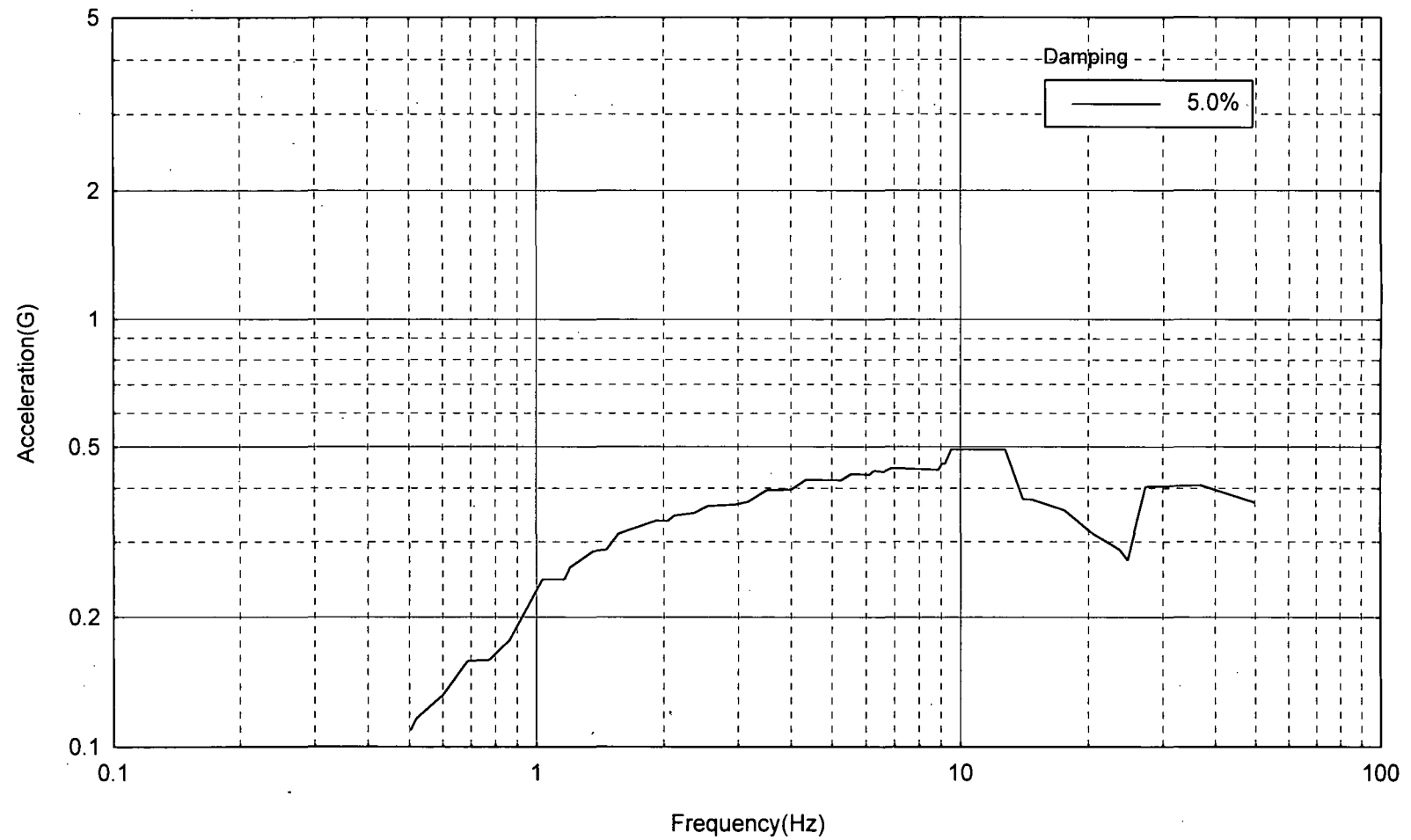


Figure B-14

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Control Room
ELEVATION : 534.0'
DIRECTION : North-South

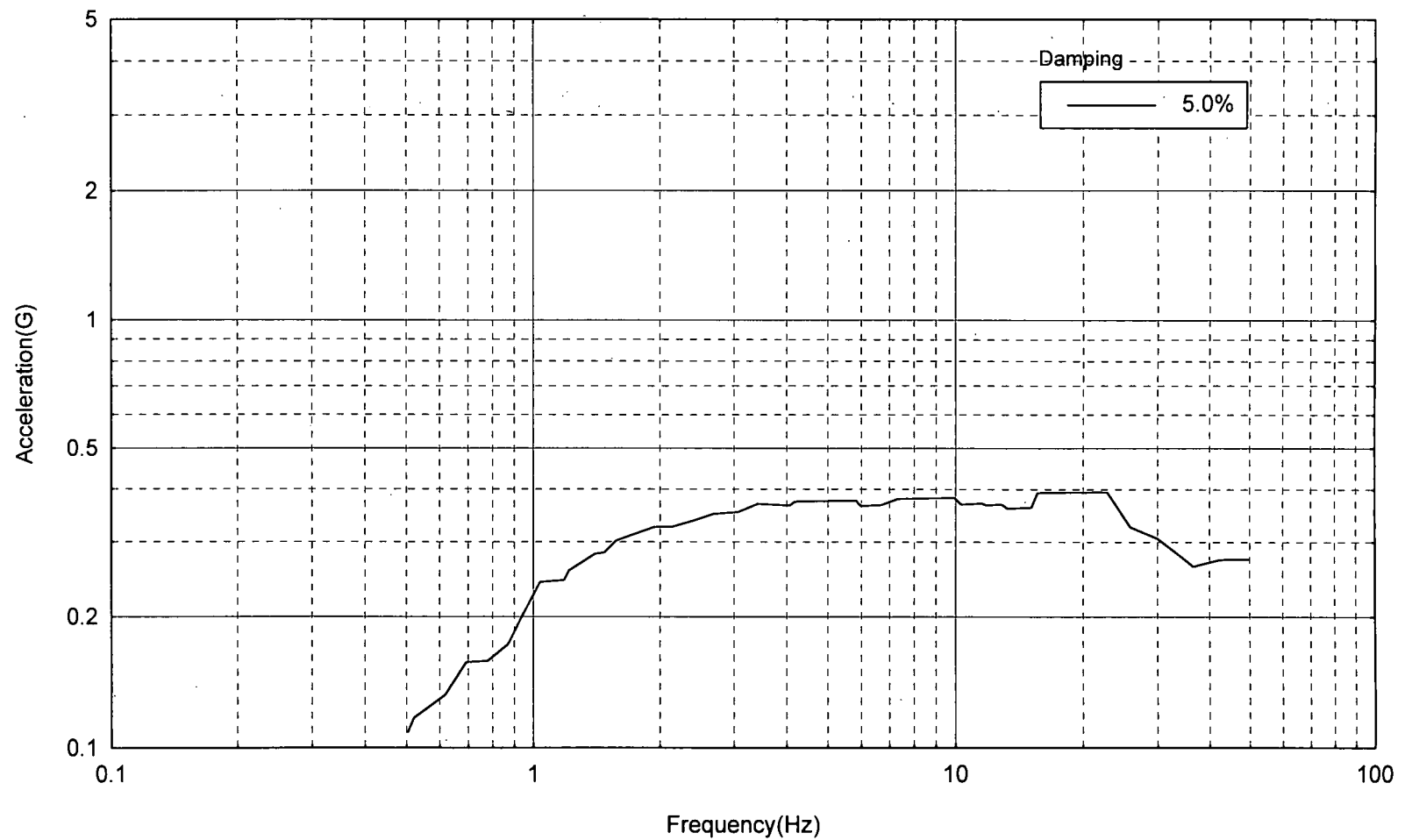


Figure B-15

Commonwealth Edison Company
Dresden Nuclear Power Station
In-Structure Response Spectrum for SSE

BUILDING : Battery Room
ELEVATION : 549.0'
DIRECTION : East-West

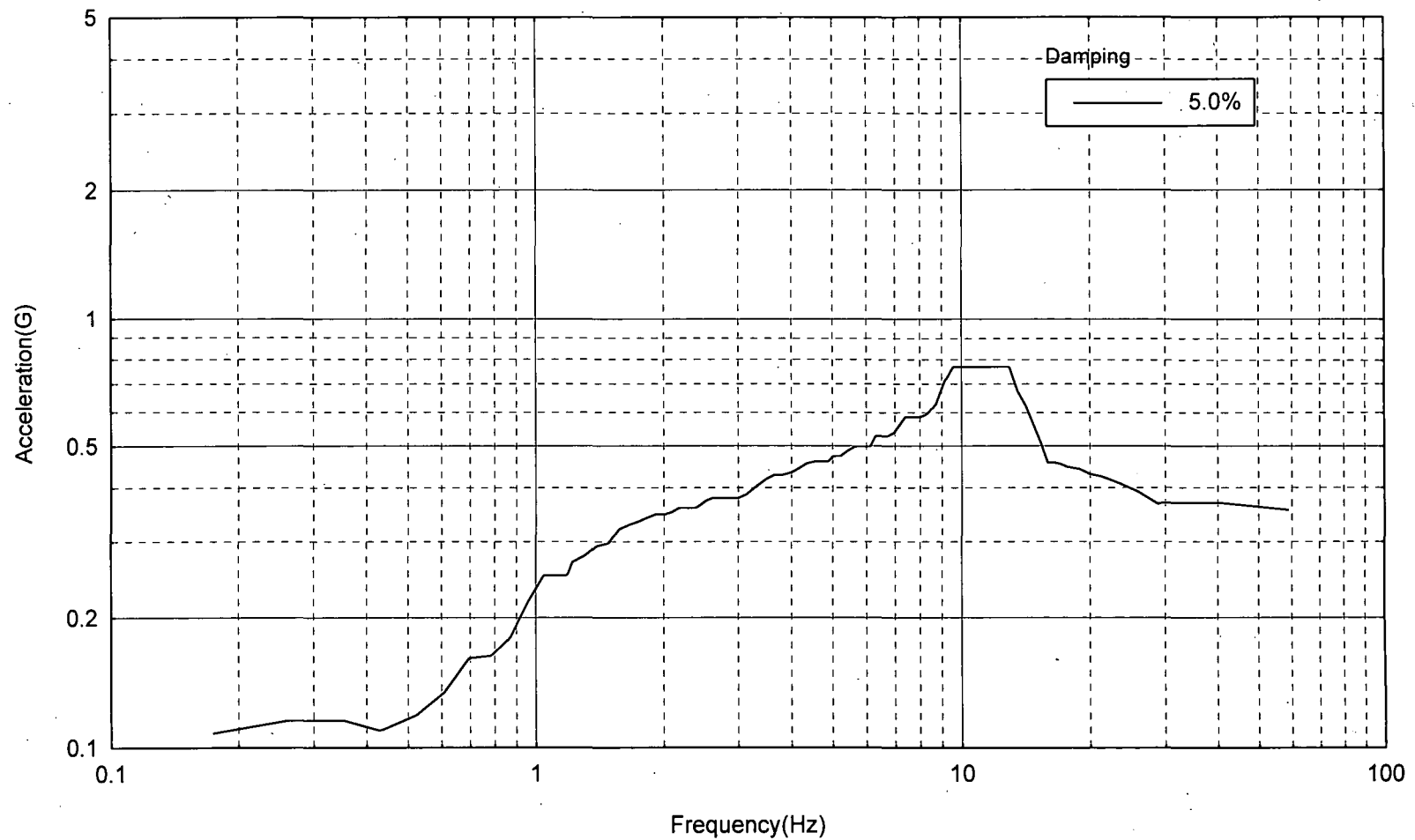


Figure B-16

Commonwealth Edsion Company
Dresden Nuclear Power Station
In-Structure Response Sepctrum for SSE

BUILDING : Battery Room
ELEVATION : 549.0'
DIRECTION : North-South

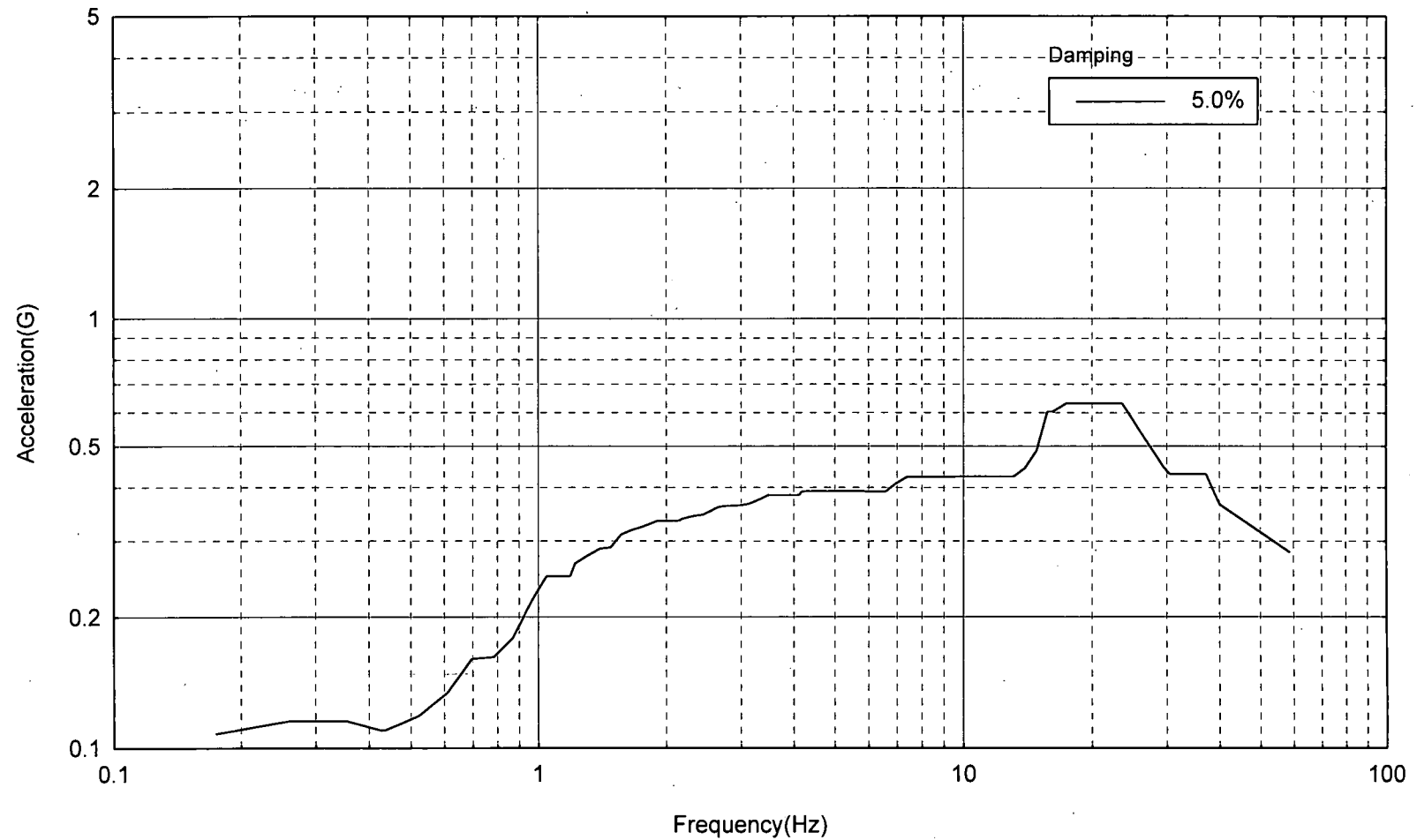


Figure B-17

APPENDIX C

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) WALKDOWN PERSONNEL RESUMES

The following contains resumes of personnel who participated in the Seismic Qualification Utilities Group (SQUG) Seismic Evaluation.

STEPHEN ANAGNOSTIS

Education

Massachusetts Institute of Technology, M. S. Structural Engineering, 1976
Columbia University School of Engineering, B. S. Civil Engineering, 1974

Professional History

Stevenson & Associates, Boston, Massachusetts, Project Manager 1983 - Present

Managed and participated in many consulting projects relating to seismic evaluation of equipment and structures at nuclear power facilities including: A-46 and IPEEE walk downs and analyses; in-situ modal testing of equipment, analysis of raceway systems, analytical investigations of equipment and of structures.

Managed and participated in the development of several seismic related software packages used by nuclear power facilities including: *GIPPER* - implementation and management of GIP-based A-46 projects, *EDASP* - direct generation of in-structure response spectra, *PCMODAL* - generation of dynamic models of structures using in-situ modal test data.

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

Involved in dynamic structural analysis and testing. Had lead technical responsibility for a two year effort to develop a seismic evaluation criteria for raceways at eight of the oldest United States nuclear power stations sponsored by the Systematic Evaluation Program (SEP) Owner's Group. This effort included the design, supervision, and data analysis of full-scale shake table tests, cyclic fatigue tests of raceway components, and development of evaluation techniques incorporating the test results.

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

Involved in the assessment of spaced based surveillance and defense systems for the Defense Advanced Research Projects Agency. Helped author a software simulation system to assess the capabilities of spaced based optical systems including structural vibrations, control dynamics, and optical performance.

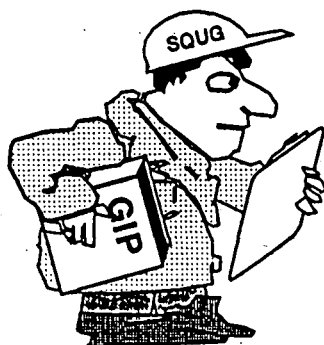


Certificate of Achievement

This is to Certify that

Steve Anagnostis

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held April 6-10, 1992



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager

Bruce M. Lory

Education

State University of New York at Buffalo - B.S.
Mechanical Engineering - 1982
Graduate Studies in Environmental Acoustics

Memberships

American Society of Mechanical Engineers (ASME)

Committee Memberships

ASME-PVP Division - Operations, Applications, and
Components Committee
EPRI - Structural Reliability and Integrity Working Group
SQRSTS member and former Technical Chairman
EPRI - GSTERI Committee (Phases I - III)
EPRI - SEQUAL Committee
STERI/NARE Software Development Utility Steering
Group Chairman

Employment History

ComEd: 1991 to Present
ABB Impell 1989 to 1991
Sargent & Lundy Engineers: 1979 to 1989

Experience

Mr. Lory is currently a member of the Mechanical & Structural Engineering Group of the Nuclear Engineering Department of ComEd. In this role, he assists the Chief Mechanical/Structural Engineer in providing technical oversight and technical assistance to the six ComEd nuclear sites. He has serving as the corporate project engineer in assisting the sites develop their reports for the SQUG and seismic IPEEE projects. In this role he apprised site reps of ongoing SQUG and seismic IPEEE issues, served as part of the walkdown team and performed evaluations as a part of this effort..

In addition, he currently is the corporate seismic equipment qualification engineer, assisting all six nuclear sites address various seismic qualification challenges related to equipment and components. In this capacity, he witnesses seismic qualification testing on an as-needed basis in support of plant startup and mentors to the sites so that they are capable and perform seismic qualification activities within the site organization.

From 1989 through 1991 he assisted ComEd in coordinating the engineering activities related to their maintenance of the EQ (Environmental Qualification) program for compliance with 10CFR50.49. He has performed many EQ binder updates and calculations, prepared/reviewed EQ test plans and reports, and has witnessed several EQ tests.

Earlier, Mr. Lory had been involved on ComEd projects related to Environmental and Seismic Qualification of equipment and components. He has performed EQ and SQ activities on all ComEd station projects. He was also part of the S&L team which performed check valve calculations in response to ComEd's report on the INPO SOER regarding check valve fatigue. He was part of the S&L team which provided resolution to EDSFI issues in the seismic field for Dresden & LaSalle stations.



Certificate of Achievement

This is to Certify that

Bruce Tory

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held April 6-10, 1992



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager

Ronald J. Janowiak

Education	DePaul University - M.B.A. - 1981 Northwestern University - M.S. Structural Engineering - 1978 University of Detroit - B.C.E. - 1977
Registration	Professional Engineer - Illinois Structural Engineer - Illinois
Memberships	American Society of Civil Engineers American Concrete Institute American Institute of Steel Construction Tau Beta Pi (Honorary Engineering) Chi Epsilon (Honorary Civil Engineering)
Committee Memberships	ACI-349 ASCE - Nuclear Energy Subcommittee on Scaffolding, Rigging & Temporary roads North Carolina State University - Center for Nuclear Power Plant Structures, Equipment and Piping
Employment History	ComEd: 1992 to Present Sargent & Lundy Engineers: 1978 to 1992 Sargent & Lundy Engineers, Co-op Student 1974-1978

Experience

Mr. Janowiak is currently a member of the Mechanical & Structural Engineering Group of the Nuclear Engineering Department of ComEd. In this role, he assists the Chief Mechanical/Structural Engineer in providing technical oversight and technical assistance to the six ComEd nuclear sites. He has participated in SQUG and seismic IPEEE walkdowns and performed evaluations as a part of this effort. He participated in the pilot SQUG walkdowns at Zion Station during 1987.

From 1988 through 1992 he assisted ComEd in coordinating the engineering activities of several major projects in ComEd's Facilities Improvement Program. These capital expansions, exceeding \$10 million, included expansions of existing Service Buildings, additions of new warehouses, and construction of various support facilities.

Earlier, Mr. Janowiak had been involved with the structural design of major steam-electric generating stations. These projects include fossil, nuclear, and refuse burning. His design experience includes areas in steel, concrete, masonry, equipment foundations, pipe supports, and electrical supports.



Certificate of Achievement

This is to Certify that

Ron Janowiak

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held September 14-18, 1992



David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager

TIMOTHY L. LOCH, P.E., S.E.
PROJECT MANAGER

Mr. Loch is a Project Manager in the Naperville Office of VECTRA'S Midwest Region. He has over 15 years experience in the analysis and design of power plant structures. He has been in responsible charge of single and multi-discipline projects which include piping analysis and design, seismic equipment qualification, and facility design.

DETAILED EXPERIENCE:

VECTRA - Mr. Loch is currently a Project Manager for the GL 89-10 Motor Operated Valve upgrades and other miscellaneous scopes at the Dresden and Quad Cities Nuclear Power Stations.

Prior to this, he was the Manager of the Facilities Improvement Program (FIP) Projects for the Quad Cities Station. He was also responsible for the utility tie-ins for the Dresden, Quad Cities and Zion Standardized Training Facilities and the conceptual design of the Quad Cities Laundry, Tool storage and DAW building (32,000 sq. ft.) and the Quad Cities Contractors Building and Machine Shop (60,000 sq. ft.).

He has been involved in several projects in which he was responsible for seismic equipment qualification, piping analysis, support design, and other miscellaneous structural items. He was the lead Structural Project Engineer for the DCRDR, HVAC and lighting modifications at Dresden and Quad Cities Nuclear Stations. In this capacity, Mr. Loch provided the technical direction and management of the seismic equipment qualification, HVAC ductwork design, and seismic conduit supports. His responsibilities as a Project Engineer have also included the structural and piping portion of the design of a hydrogen water chemistry system for the Duane Arnold Energy Center.

Sargent & Lundy Engineers - Mr. Loch was a Senior Structural Engineer at the construction site of the Clinton Nuclear Power Station. His responsibilities included supervising the structural steel design verification using manual calculations and Load Monitoring System (LMS) software. He was also responsible for masonry wall evaluations, and miscellaneous start-up support activities.

Prior to this assignment, Mr. Loch was a Structural Engineer responsible for the layout, analysis, and design of various structures and buildings associated with both fossil and nuclear fueled power plants. His assignments ranged from working independently on a project to the coordination of up to 15 engineers as part of a project team. His experience includes the use of various computer programs for structural analysis and design including STRUDL and SAP IV finite element programs.

Mr. Loch's fossil plant experience includes the analysis, design, and shop drawing review of the major structures in the power block, back end, and administrative areas of coal fired plants.

In addition to his assignment at Clinton, his field experience includes assignments examining chimneys, chimney liners, ductwork and other miscellaneous structures in various fossil fueled power plants. It also includes a three month assignment designing nonstandard Category I conduit supports at the North Anna and Surry Nuclear Power Stations.

WORK HISTORY:

VECTRA - March 1986 to Present

Sargent & Lundy Engineers - May 1978 to February 1986

EDUCATION:

University of Illinois, Urbana, B.S. Civil Engineering, with Honors, 1979

Illinois Institute of Technology, Graduate level courses in stability
and finite element analysis, 1980

SQUG Seismic Evaluation Training, 1992

EPRI IPE Add-On Training, 1993

REGISTRATIONS:

Professional Engineer, Illinois 062-041337

Structural Engineer, Illinois 081-004653

PUBLICATIONS:

"Trends in Power Facility Modifications and Improvements,"
Timothy Loch and Robert J. West, ASCE Spring Convention, 1988

"Temporary Loads in Operating Nuclear Plants," Timothy Loch, Mohammad Amin and Donald T. Ward, Fifth Symposium on Current Issues Related to Nuclear Power Plant Structures, Equipment and Piping, December, 1994

MEMBERSHIPS:

American Society of Civil Engineers (ASCE), Nuclear Energy Committee Chairman

Structural Engineers Association of Illinois (SEAOI)

American Concrete Institute (ACI)

American Institute of Steel Construction (AISC)

Tau Beta Pi and Chi Epsilon Engineering Honor Societies

RESUME of QUALIFICATIONS

FRANK P. POLAK

EXECUTIVE SUMMARY

Mr. Polak has thirteen (13) years of nuclear power plant design and operations support experience in the following areas:

- Piping System Analysis
- Structural Design
- Pipe Support Design
- Engineering and Implementation of Design Changes
- Seismic Qualification
- Technical Support of Operations
- In-Service Inspection (ISI)

PROFESSIONAL EXPERIENCE

Dresden Nuclear Power Station
6500 North Dresden Road
Morris, IL 60450
(815) 942-2920 X-2381

02/90 - Present

SITE ENGINEERING MODIFICATION DESIGN AND IMPLEMENTATION ENGINEER

Currently performing engineering and implementation of Design Changes from inception to completion. This work includes preparation of:

- Calculations to ensure code compliance
- Construction drawings on AUTOCAD Release 12
- Development of Post Modification Test and Acceptance Criteria
- 10CFR50.59 Safety Evaluation and Design Issues Worksheets
- Bill of Materials

TECHNICAL STAFF ENGINEER

Developed, implemented and maintained programs for the control of temporary loads resulting from radiation shielding, scaffolding or rigging on plant Systems, Structures or Components (SSC's). Authored administrative and technical procedures to ensure the affected SSC's remain operable for the loaded condition, under all required modes of operation, to prevent an inadvertent reduction in plant safety.

Resolved Problem Analysis Data Sheets (PADS) of component failures by interfacing with operations and maintenance personnel, investigating maintenance history and the Nuclear Power Reliability Data System (NPRDS), and performing root cause analysis to develop appropriate corrective actions to prevent recurrence.

Prepared Licensee Event Reports (LER), Deviation Reports (DVR), Special Procedures (SP), Temporary Procedure Changes (TPC), Temporary Alterations (TA) and 10CFR50.59 Safety Evaluations. Performed In-Service Inspection of pipe supports, Reactor Pressure Vessel Hydro and Local Leak Rate Tests (LLRT) of primary containment boundaries.

Sargent and Lundy Engineers
55 East Monroe Street
Chicago, IL 60603

10/83 - 02/90

PIPING SYSTEM ENGINEER

Design activities included:

- Defined system boundaries, field routed pipe and located supports
- Performed static, thermal and dynamic analysis of piping systems to ensure code compliance with ASME Section III or ANSI B31.1.0 as appropriate
- Designed welded attachments to the piping pressure boundary
- Analyzed pipe support auxiliary steel, welds and anchorage to ensure code compliance with the American Institute of Steel Construction (AISC)
- Concrete Expansion Anchor (CEA) and plate design
- Prepared design change documents
- Interfaced with construction personnel during installation for timely resolution of field problems

TRAINING SUMMARY

- Seismic Qualification Utility Group (SQUG)
- American Society of Mechanical Engineers (ASME) Section XI qualified VT-1, VT-2 and VT-3/4 Level II inspector since 1986
- Failure Prevention Incorporated (FPI) Root Cause Analysis
- General Electric System Engineer Training Program
- General Electric Boiling Water Reactor Operator Training
- Generating Station Emergency Plan (GSEP) Responder
- AUTOCAD Release 12

EDUCATION

Southeastern Massachusetts University, North Dartmouth, MA 02747
Bachelor of Science Degree, Mechanical Engineering Technology,
1983



Certificate of Achievement

This is to Certify that

Frank H. Holak

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course



Aug 2-4 & 10-11, 1994

Date of Course

Paul C. Smith

SQUG Representative

Bruce M. Long

Training Course Administrator

JOHN D. STEVENSON

EDUCATION:

B.S. - Civil Engineering - Virginia Military Institute, 1954
M.S. - Civil Engineering - Case Institute of Technology, 1962
Ph.D. - Civil Engineering - Case Institute of Technology, 1968

REGISTRATION:

Commonwealth of Virginia, State of Ohio

PROFESSIONAL HISTORY:

Stevenson & Associates, Cleveland, Ohio, President: 1981 - present
Structural Mechanics Associates, Cleveland, Ohio, Vice President: 1980 - 1981
Woodward Clyde Consultants, Cleveland, Ohio, Vice President: 1979 - 1980
A. G. McKee & Co., Cleveland, Ohio, Vice President: 1976 - 1979
Case Western Reserve University, Cleveland, Ohio, Assoc. Prof.: 1974 - 1976
Westinghouse Electric Co., Pittsburgh, Pennsylvania, Consultant: 1972 - 1974
University of Pittsburgh, Pittsburgh, Pennsylvania, Adjunct Professor: 1970 - 1972
Westinghouse Nuclear Energy Systems, Manager Structural System Engineering: 1966 - 1970
Virginia Military Institute, Assistant Professor: 1957 - 1962

PROFESSIONAL EXPERIENCE:

Since November 1981, Dr. Stevenson has managed and has served as President and Senior Consultant to Stevenson & Associates. The firm specializes in high technology consulting and engineering services associated with failure analysis of structural and mechanical systems; extreme loads; and nonlinear, dynamic, probabilistic and high temperature analyses.

His years of expertise include structural and mechanical design and qualification of nuclear power plant structures and components. He serves on several committees of the ASCE, ASME, ANS, ACI and AISC charged with the development of standards devoted to design of nuclear plant facilities. Dr. Stevenson's relevant experience includes seismic walkdowns of 13 nuclear power stations and 23 years as a structural-mechanical engineer with particular application to earthquake design and analysis. A list of earthquake related projects which Dr. Stevenson performed or directly supervised is as follows:

1. Developed seismic design criteria for 5 nuclear power stations: Westinghouse Turnkeys
2. Reviewed and approved seismic design adequacy from plans and specifications for 5 nuclear power plants: Westinghouse Turnkeys

3. Evaluation of seismic design adequacy of mechanical equipment for French nuclear power station: Fessenheim station
4. Evaluation of seismic design adequacy of liquified natural and petroleum gas storage facilities: U.S. General Accounting Office
5. Testing of electrical racks to demonstrate seismic design adequacy: Federal Pioneer, Canada
6. Analytical seismic qualification of spent fuel racks - nonlinear analysis for 10 nuclear power plants
7. Quality Assurance audit (technical) of the Tokomak fusion test reactor tritium retention structures to resist seismic loads: U.S. Department of Energy
8. Prepare preliminary assessment of requirements and installation specification for anchorage of electrical equipment in the Monticello Nuclear Plant in anticipation of meeting I&E 80-21 requirements: Northern States Power Co.
9. Review and evaluation of the Purex facility seismic capabilities at Hanford Plant: U.S. Department of Energy
10. Survey and evaluation of the L reactor mechanical and electrical equipment seismic capabilities for Savannah River Plant: E. I. DuPont
11. Systematic evaluation of the seismic capacity of a 600 MW Candu reactor station for safety shutdown in Argentina
12. Review of literature and develop recommendations for piping system damping values for Kraftwerk Union and Mitsubishi
13. Detailed evaluation of seismic design adequacy for selected mechanical and electrical equipment of five nuclear power stations as part of the U.S. NRC systematic evaluation program: U.S. Nuclear Regulatory Commission
14. Review of seismic design adequacy of nuclear plant facilities for the D.C. Cook Nuclear Power Plant: American Electric Power Corporation
15. Systematic evaluation of the seismic capacity of mechanical and electrical equipment for the Connecticut Yankee Nuclear Power Plant: Northeast Utilities
16. Systematic evaluation of the seismic capacity of mechanical and electrical equipment for the Maine Yankee Nuclear Power Plant: Yankee Atomic Co.
17. Consultant to EPRI to develop criteria for OBE Exceedance based on measure and observed site behavior: Electric Power Research Institute
18. Consultant to NRC to develop an experience data base and criteria for design and analysis

of piping systems to resist seismic loads:

19. Consultant to NRC to evaluate procedures for HCLPF assessment of equipment in nuclear power plants (NUREG/CR-5270): U.S. Nuclear Regulatory Commission
20. Review of earthquake resistance of plutonium fabrication facility: Rockwell International Corp.
21. Consultant to EPRI to develop procedures for plant start-up following a damaging earthquake at a nuclear power plant site: Electric Power Research Institute
22. Personally performed seismic walkdowns of 16 nuclear power plants in the U.S., Europe, Asia and South America.

PROFESSIONAL GROUPS:

Member, American Society of Civil Engineers, Structural Division Committee on Nuclear Safety; Structural Division Committee on Nuclear Structures and Materials; Steering Committee on Development of a Manual of Professional Practice for Quality in the Constructed Project

Former Chairman, American Society of Civil Engineers, Executive Committee Technical Council Codes and Standards

Chairman, American Society of Civil Engineers, Nuclear Standards Committee

Member, American Concrete Institute, Joint ACI-ASME Subgroup on Design of Concrete Components in Nuclear Service, ASME BPVC-Section III-Div. 2

Member, American Society of Mechanical Engineers, Subgroup on Design of ASME BPVC-Section III-Div. 1 Nuclear Components Subcommittee on Qualification of Mechanical Components in Nuclear Service

Member, Nuclear Standards Management Board of ANSI representing ASCE

Member, U.S. Representative International Standards Committee SC 85/3/7 on Seismic Criteria for Nuclear Plants

Member, U.S. Representative International Atomic Energy Agency Working Group on the Development of Seismic Design Standards

Member, ANS-2, American Nuclear Society Committee on Site Evaluation; NUPPSO, American Nuclear Society Committee on Nuclear Power Plant Codes and Standards

Member, AISC, American Institute of Steel Construction Committee on Specifications for Structural Steel in Safety Class Nuclear Structures

Member, Earthquake Engineering Research Institute

WALTER DJORDJEVIC
SEISMIC EXPERT AND WALKDOWN TEAM MEMBER

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, in-situ 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



Certificate of Achievement

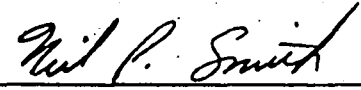
This is to Certify that

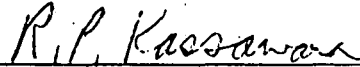
Walter Bjordjevic

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held April 6-10, 1992




David A. Freed, MPR Associates
SQUG Training Coordinator


Neil P. Smith, Commonwealth Edison
SQUG Chairman


Robert P. Kassawara, EPRI
SQUG Program Manager

GEORGE G. THOMAS

EDUCATION

B.S. - Civil Engineering - Purdue University, 1976
M.S. - Civil Engineering - Purdue University, 1978.

REGISTRATION:

Registered Engineer-in-Training: Indiana
Passed Principals and Practices Exam: Texas

PROFESSIONAL HISTORY:

Stevenson & Associates, Cleveland, Ohio, Project Engineer, 1982 - Present
Cleveland State University, Cleveland Ohio, Engineering Instructor, 1981 - 1987
Davy McKee Company, Cleveland, Ohio, Lead Engineer, 1980 - 1982
Exxon Production Research Company, Texas, Research Engineer, 1978 - 1980
McDermott-Hudson Engineering Co., Engineer/Draftsman, 1976 - 1977

PROFESSIONAL EXPERIENCE:

Mr. Thomas has served as a Project Engineer for Stevenson & Associates. He has served as Project Engineer on a variety of projects involving the evaluation and qualification of nuclear safety-related structures, equipment and piping. He has been responsible for the detailed seismic analysis, testing and qualification of a variety of mechanical and electrical equipment and piping systems, including the anchorage and support structure evaluations. He has performed analysis of safety-related piping systems subject to extreme loadings of earthquake, tornado wind, and missile impact. He has performed a failure analysis of a piping system due to water hammer loading. He has performed in-situ modal testing of nuclear components to determine their dynamic characteristics, and to determine structure amplified response spectra.

Mr. Thomas has developed background material and a seismic criteria document for a utility client for an older nuclear power plant to be used by the utility in seismic evaluations for modifications and additions to plant structures, equipment and piping. He has served as a Project Engineer for a pilot snubber reduction program for an utility and is currently providing expert consulting services to another utility for their in-house snubber reduction program.

Mr. Thomas has developed a large portion of the Generic Implementation Procedure, GIP, for the Seismic Qualification Utilities Group, SQUG, that defined the generic walkdown requirements for USI A-46. Mr. Thomas was a walkdown participant for both the SQUG Zion and Nine Mile Point 1 trial plant walkdowns. Mr. Thomas also performed a walkdown of 30 systems at the Savannah River P Reactor, and recently participated in the A-46 walkdowns of three nuclear plants. Mr. Thomas prepared and

presented the training modules on the GIP during the SQUG pilot training course at Niagara Mohawk.

Mr. Thomas has developed program COMPARE which consisted of the assembly of a data bank of nuclear power plant components that have been previously seismically qualified. He developed computer software on an IBM-PC computer to store and retrieve seismic qualification data on these components. The program is used to facilitate seismic qualification of components not previously qualified by comparison to those components qualified in the data bank.

Mr. Thomas has served as a part time instructor in the School of Civil Engineering and Engineering Technology at Cleveland State University. On the undergraduate level, he has taught Statics, Dynamics, Material Science, Structural Analysis and Concrete Design. In the graduate program, he has taught Advanced Steel Design. In all of the teaching assignments he was responsible for developing the course outline, lecture notes, problems and tests.

Mr. Thomas served as Lead Engineer in the Piping Engineering Group of Davy McKee Company. His work consisted of the design supervision and design of piping networks in a number of different petrochemical facilities. His responsibilities comprised the following:

Designing and analyzing piping networks subjected to thermal, weight, wind, earthquake, and pressure loadings using both manual and computerized techniques.

Design and analysis of pipe supports and pipe support structures. Preparing specifications for expansion joints, and providing an overall support and expansion joint package. Preparing hydrotest procedures and planning of hydrotest circuits.

Mr. Thomas served as a Research Engineer in the Offshore Structures Division of Exxon Production Research Company. His work consisted of development of design and analysis procedures for the Guyed Tower, a new concept in deepwater offshore production platforms. He performed the dynamic, structural, and fatigue analysis necessary for the Guyed Tower design of three proposed structures. He also wrote, revised, and maintained computer programs used in the Guyed Tower analysis and design procedures.

Mr. Thomas served as an Engineer and Draftsman for Robert W. Crooks Consulting Engineer and McDermott-Hudson Engineering Company. His work consisted of structural design, drafting, foundation design, railroad layout, and site development for chemical facilities.

PUBLICATIONS:

1. Thomas, G.G. and Finn, L.D., "A Guyed Tower for North Sea Production," Presented at 4th Offshore North Sea Technology Conference in Stavanger, Norway, 1980.
2. Thomas, G.G. and Starck, R.G., "Overview of SQUG Generic Implementation Procedure (GIP)," "Second Symposium on Current Issues Related to Nuclear Power Plant Structures, Equipment, and Piping With Emphasis on Resolution of Seismic Issues in Low-Seismicity Regions, EPRI NP-6437-D Proceedings, May 1989.

Dr. Robert P. Kennedy - Consultant
18971 Villa Terrace
Yorba Linda, CA 92686
(714) 777-2163

EDUCATION

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

REGISTRATION

Civil Engineer, States of California and Alabama

SUMMARY

Over thirty years experience in static and dynamic analysis plus design of special purpose civil and mechanical-type structures, particularly for the nuclear, industrial, 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.

PROFESSIONAL EXPERIENCE

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 Methodology Report (EPRI-6041). Provided technical direction on seismic fragility portion of seismic probabilistic risk assessments and seismic margin evaluations for more than 30 nuclear power plants. Developed the methodology most commonly used for such studies and author of many technical papers thereon. Taught numerous 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 50 nuclear facilities throughout 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 building 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. Chairman, ASCE committee on seismic analysis of nuclear facilities. Chairman, ASCE committee which wrote ASCE Standard 4-86 "Seismic Analysis of Safety Related Nuclear Structures".

Seismic Design - Pipeline, Tunnels, Tankage, and Industrial Facilities

Seismic consultant on Metropolitan Water District Inland Feeder, CPA tunnel project, and pipeline #6 feasibility studies for water pipelines and tunnels. Seismic consultant to Nuclear Waste

Repository Technical Review Board on seismic design of tunnels for nuclear waste repository. Seismic consultant to World Bank for repair of tunnels and pipelines after earthquakes damage. Prime author of seismic design and evaluation standard for Department of Energy Facilities (i.e., DOE Std 1020 and UCRL -15910). Co-author of the seismic design criteria for the Alaska segment of the ANGTS Pipeline project (Alaskan natural gas pipeline). Consultant on the seismic design of compressor stations for the Yukon segment of ANGTS. In responsible charge of the development of all seismic design criteria for SOHIO West Coast/Mid-Continent Pipeline including belowground and aboveground large diameter pipe, pump stations, equipment, and tank farms plus large oil storage tanks. Developed design criteria and designs for pipeline crossings of active faults for several projects. In charge of the development of seismic design criteria for berthing structures at the Port of Long Beach. Conducted seismic analyses of trestle-supported pipeline at the Port of Long Beach. Conducted evaluation of past earthquake records to determine basis for selecting design ground acceleration for the Northwest Alaska gas pipeline project. Consultant on seismic analysis and design to Alyeska on the Alaskan Pipeline. Responsible for seismic and structural audit of offshore berthing structures for Alaskan Pipeline. Responsible for seismic evaluation of gathering lines at Prudhoe Bay. Performed seismic analyses for several pipeline systems including aboveground, buried and seabed configurations. Conducted Seismic evaluations of pipeline river crossings, both aboveground and buried. Developed design criteria and seismic design calculations for large diameter water storage tanks in the Antelope Valley. Consultant on LNG storage tanks for seismic considerations including soil-structure interaction. Responsible for major seismic audit program of plutonium storage and handling facilities throughout the United States. Responsible for developing seismic design criteria including the design basis earthquake ground motion and structural response spectra for several large industrial and test facilities. Directed evaluation of site seismicity and establishment of seismic design criteria for major industrial and nuclear facilities as well as for several large diameter gas transmission pipelines, including the influence of traveling seismic waves. Former chairman, ASCE committee on seismic design of gas and liquid fuel lifelines. Member AWAA subgroup for seismic design of water storage tanks.

Hardened Structures

Member, Defense Nuclear Agency Hardened Structures Experiments Review Panel. Consultant to DNA since 1980 on the design of tunnels to withstand ground motion. Consultant to DNA since 1971 on the design of structures and mechanical equipment subjected to high pressure, missile debris impact, temperature, and ground shock from underground nuclear detonations. Responsible since 1971 for the design of containment structures for DNA to contain the effects of underground nuclear explosions. Responsible for hardened structures portion of TRW preliminary design of SANGUINE system for U.S. Navy. Participated in conceptual design of hardened missile shelters. Developed the structural design basis for several COMSAT and Pacific T&T hardened communication facilities. Designed numerous shock mounting systems to protect equipment from effects of ground shock. Responsible for the design of many defense, nuclear facility, and heavy industrial facility structures to withstand the effects of explosive generated missiles and debris. Participated in design of hardened aircraft shelters to withstand effects of conventional explosions. Directed analytical and experimental program to develop methodology for predicting occurrence and magnitude of ground shock induced fault movement (block motion) in rock. Directed program to document the performance of minimally hardened tunnels during the passage of ground shock. Directed feasibility and cost study for the mining and support of large underground cavities up to 300 feet in span. Responsible for development of methods to predict peak dynamic response of

structures (both with and without shock mounting) close to surface zero above underground nuclear detonations.

Other Dynamic Loads

Extensive experience in the analysis of nuclear and industrial facilities subjected to extreme dynamic loads including effects of blast, external missile and aircraft impact, and impulsive loading resulting from loss-of-coolant accident and SRV discharge. Consultant to NRC on blast resistant capacity of structures. Prime developer of the method currently in extensive use by the nuclear industry in the United States 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 structure 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 II 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 SRV loadings as prior approaches were over conservative 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.

Previous Special Assignments

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.

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 Interaction, Nuclear Structures and Materials Committee, Structures Division, ASCE.

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

Member, AWWA D100 Revision Task Force, charged with revising the AWWA Standard for Welded Steel Tanks for Water Storage.

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

Awards

Member, National Academy of Engineering

Recipient, 1992 ASCE Stephen Bechtel Energy Engineering Award for seismic criteria development work for energy facilities

APPENDIX D

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) SCREENING VERIFICATION DATA SHEETS (SVDS)

The following contains the summary level Screening Verification Data Sheets (SVDS), which provide the walkdown results.

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Flt. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
0	D02-0305-----H20	0	/ CRD/ Hydraulic Control Unit	Reactor	517.50	J-K/38-39,43-44	517.50	N/A	DOC	RRS	No	Yes	Yes	No	No
0	D03-0305-----H20	0	/ CRD/ Hydraulic Control Unit	Reactor	517.50	J-K/44-45,49-50	517.50	N/A	DOC	RRS	No	Yes	Yes	Yes	No
1	D02-7826-4----M05	0	/ 480V AC/ MCC 26-4	Turbine	549.00	D-E/32	549.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-7828-1----M05	0	/ 480V AC/ MCC 28-1	Reactor	517.50	L-M/38	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-7828-2----M05	0	/ 480V AC/ MCC 28-2	Turbine	538.00	F-G/35-36	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-7828-3----M05	0	/ 480V AC/ MCC 28-3	Turbine	538.00	F-G/35-36	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-7828-7----M05	0	/ 480V AC/ MCC 28-7	Reactor	517.50	N/40	517.50	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-7829-1----M05	0	/ 480V AC/ MCC 29-1	Reactor	517.50	L/44	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-7829-2----M05	0	/ 480V AC/ MCC 29-2	Turbine	517.50	D-E/32-33	517.50	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-7829-4----M05	0	/ 480V AC/ MCC 29-4	Reactor	517.50	M/44	517.50	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-7829-7----M05	0	/ 480V AC/ MCC 29-7	Reactor	517.50	N/42	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-7829-8----M05	0	/ 480V AC/ MCC 29-8	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-8302A-----M05	0	3 / 250V DC/ MCC Bus #2A (ROB-RB MCC #2)	Reactor	570.00	M-N/41-42	570.00	N/A	ABS	CRS	No	Yes	Yes	No	No
1	D02-8302A1----P06	0	/ 125V DC/ TB Main Bus #2A-1 (ROB-Main Bus #2A)	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-8302B-----M05	0	3 / 250V DC/ MCC Bus #2B (ROB-RB MCC #2)	Reactor	570.00	M-N/41-42	570.00	N/A	ABS	CRS	No	No	No	Yes	No
1	D02-8302B-1---P06	0	/ 125V DC/ TB Res Bus #2B-1 (ROB-TB Res Bus #2B)	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-83125-----P06	0	/ 125V DC/ RB 125V DC Distribution Panel #2	Reactor	570.00	M-N/41-42	570.00	N/A	ABS	CRS	No	Yes	Yes	Yes	No
1	D02-83125-1---P06	0	/ 125V DC/ TB Res Bus #2, Feed to TB Res Bus #2B-1	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-83125-2---P06	0	/ 125V DC/ TB Battery Bus #2, Feed to Main Bus #2A-1	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D02-83250-----M05	0	/ 250V DC/ TB MCC #2	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D02-9802-A-----P06	0	/ 24/48V DC/ Distribution Panel #2A	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No

Certification:

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).

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 at least two on the SRT. All signatories should agree with all the entries and conclusions. One signatory should be a licensed professional engineer.)

Approved: (One signature of Systems or Operations Engineer is required if the Seismic Capability Engineers deem it necessary.)

R. P. Kennedy	<i>Robert P. Kennedy</i>	6/15/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. D. Stevenson	<i>John D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Flt. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
1	D02-9802-B---P06	0	/ 24/48V DC/ Distribution Panel #2B	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-7838-1---M05	0	/ 480V AC/ MCC 38-1	Reactor	517.50	L/44	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-7838-2---M05	0	/ 480V AC/ MCC 38-2	Turbine	538.00	G/52	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-7838-3---M05	0	/ 480V AC/ MCC 38-3	Turbine	538.00	H/53	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-7838-4---M05	0	/ 480V AC/ MCC 38-4	Reactor	517.50	M/44	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-7838-7---M05	0	/ 480V AC/ MCC 38-7	Reactor	517.50	N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-7839-1---M05	0	/ 480V AC/ MCC 39-1	Reactor	517.50	L-M/50	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-7839-2---M05	0	/ 480V AC/ MCC 39-2	Turbine	534.00	G/44-45	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-7839-7---M05	0	3 / 480V AC/ MCC 39-7	Reactor	517.50	N/48	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-8303A---M05	0	3 / 250V DC/ MCC Bus #3A (ROB-RB MCC #3)	Reactor	570.00	M-N/46-47	570.00	N/A	ABS	CRS	No	No	No	Yes	No
1	D03-8303A1-1-P06	0	/ 125V DC/ TB Main Bus #3A, Feed to Res Bus #2	Turbine	538.00	G-H/54-55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-8303A1-2-P06	0	/ 125V DC/ TB Main Bus #3A-1 (ROB-Main Bus #3A)	Turbine	538.00	G-H/54-55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-8303B---M05	0	3 / 250V DC/ MCC Bus #3B (ROB-RB MCC #3)	Reactor	570.00	M-N/46-47	570.00	N/A	ABS	CRS	No	No	No	Yes	No
1	D03-8303B1---P06	0	/ 125V DC/ TB Res Bus #3B-1 (ROB-TB Res Bus #3B)	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-83125---P06	0	/ 125V DC/ RB 125V DC Distribution Panel #3	Reactor	570.00	N/46	570.00	N/A	ABS	CRS	No	No	No	Yes	No
1	D03-83125-3---P06	0	/ 125V DC/ TB Battery Bus #3, Feed to Main Bus #3A	Turbine	538.00	G-H/54-55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-83250---M05	0	/ 250V DC/ TB MCC #3	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
1	D03-9802-A---P06	0	/ 24/48V DC/ Distribution Panel #3A	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
1	D03-9802-B---P06	0	/ 24/48V DC/ Distribution Panel #3B	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
2	D02-7328---S35	0	/ 480V AC/ Switchgear 28	Reactor	570.00	M-N/40-41	570.00	N/A	GERS	CRS	Yes	Yes	Yes	No	No
2	D02-7329---S35	0	/ 480V AC/ Switchgear 29	Reactor	570.00	M-N/40-41	570.00	N/A	GERS	CRS	Yes	Yes	Yes	No	No

Certification:

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R. P. Kennedy	<i>Robert P. Kennedy</i>	6/15/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. D. Stevenson	<i>John D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
2	D03-7338-----S35	0	/ 480V AC/ Switchgear 38	Reactor	570.00	M-N/47-48	570.00	N/A	GERS	CRS	Yes	Yes	Yes	No	No
2	D03-7339-----S35	0	/ 480V AC/ 480V Switchgear 39	Reactor	570.00	M-N/47-48	570.00	N/A	GERS	CRS	Yes	Yes	Yes	No	No
3	D00-6740-----S35	0	/ 4160V AC/ Switchgear 40	Reactor	504.50	DG RM2/3 N/46	517.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
3	D02-6723-----S35	0	/ 4160V AC/ Switchgear 23	Turbine	534.00	D-E/31-32	534.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
3	D02-67231-----S35	0	/ 4160V AC/ Switchgear 23-1	Reactor	545.50	M-N/39-40	545.50	Yes	BS	GRS	Yes	Yes	Yes	No	No
3	D02-6724-----S35	0	/ 4160V AC/ Switchgear 24	Turbine	534.00	D-E/31-32	534.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
3	D02-67241-----S35	0	/ 4160V AC/ Switchgear 24-1	Reactor	545.50	M-N/41-42	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
3	D03-6733-----S35	0	/ 4160V AC/ Switchgear 33	Turbine	538.00	D-E/54-55	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
3	D03-67331-----S35	0	/ 4160V AC/ Switchgear 33-1	Reactor	545.50	M-N/46-47	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
3	D03-6734-----S35	0	/ 4160V AC/ Switchgear 34	Turbine	538.00	D-E/54-55	538.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
3	D03-67341-----S35	0	/ 4160V AC/ Switchgear 34-1	Reactor	545.50	M-N/48-49	545.50	Yes	BS	GRS	Yes	Yes	Yes	No	No
4	D02-7128-----T10	0	/ 480V AC/ Transformer 28, Feed to Switchgear 28	Reactor	570.00	N/40	570.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
4	D02-7229-----T10	0	/ 480V AC/ Transformer 29, Feed to Switchgear 29	Reactor	570.00	N/40	570.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
4	D03-7138-----T10	0	/ 480V AC/ Transformer 38, Feed to Switchgear 38	Reactor	570.00	N/48	570.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
4	D03-7239-----T10	0	/ 480V AC/ 480V Transformer 39, Feed to Switchgear 39	Reactor	570.00	N/48	570.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D00-3903-----P30	0	/ SERVICE WATER/ Diesel Generator Cooling Water Pump	C. House	490.67	A-B/4	490.67	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D00-5203-----P30	0	/ DIESEL GENERATOR/ Fuel Oil Transfer Pump	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-1501-0044AP30	0	/ CCSW/ CCSW Pump A	Turbine	495.00	D/36	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-1501-0044BP30	0	/ CCSW/ CCSW Pump B	Turbine	495.00	VAULT RM D/38	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-1501-0044CP30	0	/ CCSW/ CCSW Pump C	Turbine	495.00	VAULT RM D/38	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-1501-0044DP30	0	/ CCSW/ CCSW Pump D	Turbine	495.00	D/39	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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J. D. Stevenson	<i>John D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
5	D02-3903-----P30	0	/ SERVICE WATER/ Diesel Generator Cooling Water Pump	C. House	490.67	A-B/4	490.67	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-5203-----P30	0	/ DIESEL GENERATOR/ Fuel Oil Transfer Pump	Turbine	517.50	DG RM2 G-H/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	No	No
5	D03-1501-0044AP30	0	/ CCSW/ CCSW Pump A	Turbine	495.00	D/49	517.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
5	D03-1501-0044BP30	0	/ CCSW/ CCSW Pump B	Turbine	495.00	VAULT RM D/50	517.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
5	D03-1501-0044CP30	0	/ CCSW/ CCSW Pump C	Turbine	495.00	VAULT RM D/50	517.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
5	D03-1501-0044DP30	0	/ CCSW/ CCSW Pump D	Turbine	495.00	D/52	517.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
5	D03-2301-----T20	0	7 / HPCI/ HPCI Turbine	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D03-2301-0057-P30	0	/ HPCI/ HPCI Turbine Cooling Water Pump	Reactor	476.50	HP RM3 N/46	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D03-2301-CONDPP	0	/ HPCI/ Condenser Hotwell Condensate Pump	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D03-2302-----P30	0	/ HPCI/ HPCI Pump	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D03-3903-----P30	0	/ SERVICE WATER/ Diesel Generator Cooling Water Pump	C. House	490.67	A/5	490.67	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D03-5203-----P30	0	/ DIESEL GENERATOR/ Fuel Oil Transfer Pump	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
6	D02-1502-A----P30	0	/ LPCI/ LPCI Injection Pump A	Reactor	476.50	SE C.RM N/39	476.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
6	D02-1502-B----P30	0	/ LPCI/ LPCI Injection Pump B	Reactor	476.50	SE C.RM N/39	476.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
6	D03-1502-A----P30	0	/ LPCI/ LPCI Injection Pump A	Reactor	476.50	SE C.RM N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
6	D03-1502-B----P30	0	/ LPCI/ LPCI Injection Pump B	Reactor	476.50	SE C.RM N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
6	D03-1502-C----P30	0	/ LPCI/ LPCI Injection Pump C	Reactor	476.50	SW C.RM N/49	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
6	D03-1502-D----P30	0	/ LPCI/ LPCI Injection Pump D	Reactor	476.50	SW C.RM N/49	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
7	D00-5741-0048AV72	0	/ CONTROL ROOM VENTILATION/ CCSW Cooling Supply Valve	Turbine	534.00	VENT RM2/3 G/32	534.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D00-5741-0048BV72	0	/ CONTROL ROOM VENTILATION/ Service Water Supply Valve	Turbine	534.00	VENT RM2/3 G/32	534.00	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
J. D. Stevenson	<i>J. D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
7	D02-0302-0160AV05	0	/ CRD/ West Bank Scram Discharge Volume Vent Valve	Reactor	517.50	DRY GALL K/43	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0160BV05	0	/ CRD/ East Bank Scram Discharge Volume Vent Valve	Reactor	545.50	L/39	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0161AV05	0	/ CRD/ West Bank Scram Discharge Volume Vent Valve	Reactor	517.50	DRY GALL K/43	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0161BV05	0	/ CRD/ East Bank Scram Discharge Volume Vent Valve	Reactor	545.50	L/39	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0302-0160BV05	0	/ CRD/ West Bank Scram Discharge Volume Vent Valve	Reactor	517.50	DRY GALL K/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0302-0161BV05	0	/ CRD/ West Bank Scram Discharge Volume Vent Valve	Reactor	517.50	DRY GALL K/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D00-5741-0054-V27	0	/ CONTROL ROOM VENTILATION/ Train A Iso. Damper Solen.	Turbine	549.00	H/32	549.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D00-5790-EP2-V27	0	/ DIESEL GENERATOR/ Vent. Fan Dampers Solenoid Valve	Reactor	504.50	DG PNL 2223-56	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D00-5790-0003AV10	0	/ DIESEL GENERATOR/ Vent. Fan Inlet Damper Solen. Oper.	Reactor	504.50	DG RM2/3 N/46	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D00-5790-0003BV10	0	/ DIESEL GENERATOR/ Vent. Fan Outlet Damper Solen. Oper.	Reactor	504.50	DG RM2/3 N/46	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0019AV27	0	/ CRD/ Backup Scram Solenoid Valve	Reactor	517.50	L/39	517.50	Yes	BS	GRS	Yes	No	N/A	Yes	No
8	D02-0302-0019BV27	0	/ CRD/ Backup Scram Solenoid Valve	Reactor	517.50	L/39	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0020AV27	0	/ CRD/ Scram Dump Solenoid Valve	Reactor	517.50	L/39	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0020BV27	0	/ CRD/ Scram Dump Solenoid Valve	Reactor	517.50	L/39	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0160AV27	0	/ CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	Reactor	517.50	DRY GALL K/43	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0160BV27	0	/ CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	Reactor	545.50	L/39	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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Print or Type Name Signature Date 6/15/96

J. D. Stevenson
Print or Type Name Signature Date 6/22/96

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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
8	D02-0302-0161AV27	0	/ CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	Reactor	517.50	DRY GALL K/43	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0161BV27	0	/ CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	Reactor	545.50	L/39	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0003AV20	0	/ CCSW/ Heat Exchanger Outlet Service Water Line Valve	Reactor	476.50	SE C.RM M-N/38	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0011AV20	0	/ LPCI/ LPCI Heat Exchanger Bypass Line Valve	Reactor	476.50	SE C.RM M-N/38	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0032AV20	0	/ LPCI/ LPCI Header Crosstie Line Valve	Reactor	476.50	SE C.RM N/39	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-5790-EP2-V27	0	/ DIESEL GENERATOR/ Room Vent. Fan Dampers Solenoid Valve	Turbine	517.50	DG PNL 2252-47	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-5790-EP3-V27	0	/ DIESEL GENERATOR/ Normal Vent. Damper Solenoid Valve	Turbine	517.50	DG PNL 2252-47	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-5790-0003-V10	0	/ DIESEL GENERATOR/ Vent. Fan Damper Solenoid Operator	Turbine	538.00	G-H/35	538.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0019AV27	0	/ CRD/ Backup Scram Solenoid Valve	Reactor	517.50	L/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0019BV27	0	/ CRD/ Backup Scram Solenoid Valve	Reactor	517.50	L/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0020AV25	0	/ CRD/ Scram Dump Solenoid Valve	Reactor	517.50	L/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0020BV27	0	/ CRD/ Scram Dump Solenoid Valve	Reactor	517.50	L/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0160BV27	0	/ CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	Reactor	517.50	DRY GALL K/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0161BV27	0	/ CRD/ West Bank Scram Discharge Volume Vent Sol. Valve	Reactor	517.50	DRY GALL K/48	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0003AV20	0	/ CCSW/ Heat Exchanger Outlet Service Water Line Valve	Reactor	476.50	SE C.RM M/44	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0003BV20	0	/ CCSW/ Heat Exchanger Outlet Service Water Line Valve	Reactor	476.50	SW C.RM N/49	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
8	D03-1501-0011AV20	0	/ LPCI/ LPCI Heat Exchanger Bypass Line Valve	Reactor	476.50	SE C.RM M-N/44	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0011BV20	0	/ LPCI/ LPCI Heat Exchanger Bypass Line Valve	Reactor	476.50	SW C.RM M-N/49	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0032AV20	0	/ LPCI/ LPCI Header Crosstie Line Valve	Reactor	476.50	SE C.RM N/45	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0032BV20	0	/ LPCI/ LPCI Header Crosstie Line Valve	Reactor	476.50	SW C.RM N/49	476.50	Yes	BS	GRS	Yes	Yes	N/A	No	No
8	D03-2301-0003-V20	0	/ HPCI/ Turbine Steam Line Valve	Reactor	476.50	HP RM3 N/46	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-2301-0006-V20	0	/ HPCI/ Condensate Tank Supply to HPCI Pump Valve	Reactor	476.50	HP RM3 N/46	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-2301-0014-V20	0	/ HPCI/ HPCI Pump Test Line Valve	Reactor	476.50	HP RM3 N/46	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-2301-0035-V20	0	/ HPCI/ Suppression Pool Suction Line Valve	Reactor	476.50	HP RM3 N/46	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-5790-EP2-V27	0	/ DIESEL GENERATOR/ Room Vent. Fan Dampers Solenoid Valve	Turbine	517.50	DG PNL 2253-47	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-5790-EP3-V27	0	/ DIESEL GENERATOR/ Normal Vent. Damper Solenoid Valve	Turbine	517.50	DG PNL 2253-47	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-5790-0003-V10	0	/ DIESEL GENERATOR/ Vent. Fan Damper Solenoid Operator	Turbine	538.00	H/54-55	538.00	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
9	D00-5790------F10	0	/ DIESEL GENERATOR/ Room Ventilation Fan	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
9	D00-9400-0104AF05	0	/ CONTROL ROOM VENTILATION/ AFU Booster Fan	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
9	D00-9400-0104BF05	0	/ CONTROL ROOM VENTILATION/ AFU Booster Fan	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
9	D02-5790------F10	0	/ DIESEL GENERATOR/ Room Ventilation Fan	Turbine	517.50	DG RM2 G-H/35	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
9	D03-2320-GSCE-F05	0	/ HPCI/ Gland Seal Condenser Exhaust Fan	Reactor	476.50	HP RM3 N/46	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
9	D03-5790-----F10	0	/ DIESEL GENERATOR/ Room Ventilation Fan	Turbine	517.50	DG RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0054AD05	0	/ CONTROL ROOM VENTILATION/ Train A Isolation Damper	Turbine	549.00	H/32	549.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0054BD05	0	/ CONTROL ROOM VENTILATION/ Train A Isolation Damper	Turbine	549.00	H/32	549.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0054CD05	0	/ CONTROL ROOM VENTILATION/ Train A Isolation Damper	Turbine	549.00	H/32	549.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0054DD05	0	/ CONTROL ROOM VENTILATION/ Train A Isolation Damper	Turbine	549.00	H/32	549.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0055-D05	0	/ CONTROL ROOM VENTILATION/ AFU Booster Fan Outlet Damper	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0056-D05	0	/ CONTROL ROOM VENTILATION/ AFU Booster Fan Outlet Damper	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0057-D05	0	/ CONTROL ROOM VENTILATION/ AFU Recirculation Damper	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0058-D05	0	/ CONTROL ROOM VENTILATION/ AFU Inlet Damper	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0059AD05	0	/ CONTROL ROOM VENTILATION/ AHU Outlet Damper	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5741-0059BD05	0	/ CONTROL ROOM VENTILATION/ AHU Inlet Damper	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5772-0100-D05	0	/ DIESEL GENERATOR/ Ventilation Fan Inlet Damper	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-5772-0101-D05	0	/ DIESEL GENERATOR/ Ventilation Fan Outlet Damper	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D00-9400-0100-F05	0	/ CONTROL ROOM VENTILATION/ Air Handling Unit	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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Print or Type Name Signature Date 6/15/96

J. D. Stevenson
Print or Type Name Signature Date 6/22/96

Print or Type Name Signature Date

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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
10	D02-5700-0030AH15	0	/ CCSW/ CCSW Pump Cooler A	Turbine	495.00	VAULT RM D/38	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D02-5700-0030BH15	0	/ CCSW/ CCSW Pump Cooler B	Turbine	495.00	VAULT RM D/38	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D02-5700-0030CH15	0	/ CCSW/ CCSW Pump Cooler C	Turbine	495.00	VAULT RM D/38	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D02-5700-0030DH15	0	/ CCSW/ CCSW Pump Cooler D	Turbine	495.00	VAULT RM D/38	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D02-5746-A---H15	0	/ LPCI/ LPCI Emergency Room Air Cooler	Reactor	476.50	SE C.RM M/38	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
10	D02-5772-0100-D05	0	/ DIESEL GENERATOR/ Ventilation Fan Inlet Damper	Turbine	538.00	G-H/34	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	D02-5772-0101-D05	0	/ DIESEL GENERATOR/ Ventilation Fan Outlet Damper	Turbine	517.50	DG RM2 G-H/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D02-5772-0102-D05	0	/ DIESEL GENERATOR/ Normal Ventilation Duct Damper	Turbine	517.50	RFP RM G/35	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D03-5700-0030AH15	0	/ CCSW/ CCSW Pump Cooler A	Turbine	495.00	VAULT RM D/50	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D03-5700-0030BH15	0	/ CCSW/ CCSW Pump Cooler B	Turbine	495.00	VAULT RM D/50	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D03-5700-0030CH15	0	/ CCSW/ CCSW Pump Cooler C	Turbine	495.00	VAULT RM D/50	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D03-5700-0030DH15	0	/ CCSW/ CCSW Pump Cooler D	Turbine	495.00	VAULT RM D/50	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
10	D03-5746-A---H15	0	/ LPCI/ LPCI Emergency Room Air Cooler	Reactor	476.50	SE C.RM M/44	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
10	D03-5746-B---H15	0	/ LPCI/ LPCI Emergency Room Air Cooler	Reactor	476.50	SW C.RM M/50	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
10	D03-5747-----H15	0	/ HPCI/ HPCI Emergency Air Cooler	Reactor	476.50	HP RM3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D03-5772-0100-D05	0	/ DIESEL GENERATOR/ Ventilation Fan Inlet Damper	Turbine	538.00	H/54-55	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
10	D03-5772-0101-D05	0	/ DIESEL GENERATOR/ Ventilation Fan Outlet Damper	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D03-5772-0102-D05	0	/ DIESEL GENERATOR/ Normal Ventilation Duct Damper	Turbine	517.50	G/54	538.00	N/A	ABS	CRS	Yes	No	No	No	No
10	D03-LOC	0	/ HPCI/ Lube Oil Cooler	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

Certification:

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R. P. Kennedy	<i>Robert P. Kennedy</i>	6/15/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. D. Stevenson	<i>John D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Flt. El.	Rm or Rm/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
11	D00-9400-0101-F10	0	7 / CONTROL ROOM VENTILATION/ Air Filtration Unit Heater	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
11	D00-9400-0102-R15	0	/ CONTROL ROOM VENTILATION/ Refrigeration Condensing Unit	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D00-4600-B----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit A1	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D00-4600-C----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit A2	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D00-4600-G----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit B1	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D00-4600-H----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit B2	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D02-4600-B----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit A1	Turbine	528.25	DG RM2 G-H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
12	D02-4600-C----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit A2	Turbine	528.25	DG RM2 G-H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
12	D02-4600-G----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit B1	Turbine	528.25	DG RM2 G-H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
12	D02-4600-H----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit B2	Turbine	528.25	DG RM2 G-H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
12	D03-4600-B----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit A1	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D03-4600-C----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit A2	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D03-4600-G----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit B1	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
12	D03-4600-H----T05	0	/ DIESEL GENERATOR/ Primary Gas Air Receiver Unit B2	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Flt. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
15	D02-8300-BC-B04	0	/ 125V DC/ Battery #2, Feed to TB Battery Bus #2	Turbine	549.00	B RM2 E/31	549.00	Yes	BS	GRS	Yes	No	Yes	Yes	No
15	D02-83250-B04	0	/ 250V DC/ Battery #2	Turbine	549.00	B RM2 E/31	549.00	Yes	BS	GRS	Yes	No	Yes	Yes	No
15	D02-9802-A-B04	0	/ 24/48V DC/ Battery #2A	Turbine	549.00	B RM2 E/31	549.00	Yes	BS	GRS	Yes	No	Yes	Yes	No
15	D02-9802-B-B04	0	/ 24/48V DC/ Battery #2B	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	No	Yes	Yes	No
15	D03-8300-BC-B04	0	/ 125V DC/ Battery #3, Feed to TB Battery Bus #3	Turbine	551.00	B RM3 G-H/55	561.50	Yes	BS	GRS	Yes	No	Yes	Yes	No
15	D03-83250-B04	0	/ 250V DC/ Battery #3, Feed to TB MCC #3	Turbine	551.00	B RM3 G-H/55	561.50	Yes	BS	GRS	Yes	No	Yes	Yes	No
15	D03-9802-A-B04	0	/ 24/48V DC/ Battery #3A	Turbine	551.00	B RM3 G-H/55	561.50	Yes	BS	GRS	Yes	No	Yes	Yes	No
15	D03-9802-B-B04	0	/ 24/48V DC/ Battery #3B	Turbine	551.00	B RM3 G-H/55	561.50	Yes	BS	GRS	Yes	No	Yes	Yes	No
16	D00-83250-0-B05	0	/ 250V DC/ Battery Charger #2/3	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	No	No	Yes	No
16	D02-8300-2-B05	0	/ 125V DC/ Battery Charger #2	Turbine	549.00	B RM2 E/31	549.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
16	D02-8300-2A-B05	0	/ 125V DC/ Battery Charger #2A	Turbine	549.00	B RM2 E/31	549.00	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
16	D02-83250-2-B05	0	/ 250V DC/ Battery Charger #2	Turbine	549.00	B RM2 E/31	549.00	N/A	ABS	CRS	Yes	No	No	Yes	No
16	D02-9802-2ANEGB05	0	/ 24/48V DC/ Battery Charger #2A (-)	Turbine	549.00	B RM2 E/31	549.00	N/A	GERS	CRS	Yes	Yes	Yes	Yes	Yes
16	D02-9802-2APOSB05	0	/ 24/48V DC/ Battery Charger #2A (+)	Turbine	549.00	B RM2 E/31	549.00	N/A	GERS	CRS	Yes	Yes	Yes	Yes	Yes
16	D02-9802-2BNEGB05	0	/ 24/48V DC/ Battery Charger #2B (-)	Turbine	549.00	B RM2 E/31	549.00	N/A	GERS	CRS	Yes	Yes	Yes	Yes	Yes
16	D02-9802-2BPOSB05	0	/ 24/48V DC/ Battery Charger #2B (+)	Turbine	549.00	B RM2 E/31	549.00	N/A	GERS	CRS	Yes	Yes	Yes	Yes	Yes
16	D03-8300-3-B05	0	/ 125V DC/ Battery Charger #3	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	No	No	Yes	No
16	D03-8300-3A-B05	0	/ 125V DC/ Battery Charger #3A	Turbine	538.00	G-H/54-55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
16	D03-83250-3-B05	0	/ 250V DC/ Battery Charger #3	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
16	D03-9802-3ANEGB05	0	/ 24/48V DC/ Battery Charger #3A (-)	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
16	D03-9802-3APOSB05	0	/ 24/48V DC/ Battery Charger #3A (+)	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
16	D03-9802-3BNEGB05	0	/ 24/48V DC/ Battery Charger #3B (-)	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
16	D03-9802-3BPOSB05	0	/ 24/48V DC/ Battery Charger #3B (+)	Turbine	538.00	BC RM3 G-H/55	538.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No

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J. D. Stevenson	<i>J. D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

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17	D00-6601-----G05	0	/ DIESEL GENERATOR/ Diesel Engine Driven Generator	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
17	D02-6601-----G05	0	/ DIESEL GENERATOR/ Diesel Engine Driven Generator	Turbine	517.50	DG RM2 G-H/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
17	D03-6601-----G05	0	/ DIESEL GENERATOR/ Diesel Engine Driven Generator	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D00-2350-A-----LS	0	1 / HPCI/ Storage Tank Level Switch	Turbine	517.50	RFP RM G/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D00-2350-B-----LS	0	1 / HPCI/ Storage Tank Level Switch	Turbine	517.50	RFP RM G/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D00-2350-C-----LS	0	1 / HPCI/ Storage Tank Level Switch	Turbine	517.50	RFP RM G/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D00-2350-D-----LS	0	1 / HPCI/ Storage Tank Level Switch	Turbine	517.50	RFP RM G/35	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2202-0005	0	1 / INSTRUMENT RACKS/ Instrument Rack 2202-5	Reactor	545.50	E/39	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	D02-2202-0006	0	1 / INSTRUMENT RACKS/ Instrument Rack 2202-6	Reactor	545.50	M/41	545.50	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D02-2202-0007	0	1 / INSTRUMENT RACKS/ Instrument Rack 2202-7	Reactor	517.50	K/39	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2202-0008	0	1 / INSTRUMENT RACKS/ Instrument Rack 2202-8	Reactor	517.50	K/43	517.50	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D02-2202-0070A	0	/ INSTRUMENT RACKS/ Instrument Rack 2202-70A	Turbine	517.50	AEER 2202-70A	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
18	D02-2202-0070B	0	/ INSTRUMENT RACKS/ Instrument Rack 2202-70B	Turbine	517.50	AEER 2202-70B	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
18	D02-2202-0073A	0	/ INSTRUMENT RACKS/ Instrument Rack 2202-73A	Turbine	538.00	H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D02-2202-0073B	0	/ INSTRUMENT RACKS/ Instrument Rack 2202-73B	Turbine	538.00	H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D02-2252-0083	0	7 / INSTRUMENT RACKS/ Instrument Rack 2252-83	Reactor	545.50	N/39	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

Certification:

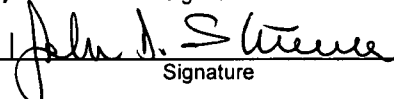
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R. P. Kennedy		6/15/96			
J. D. Stevenson		6/22/94			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
18	D02-2252-0084	0	7 / INSTRUMENT RACKS/ Instrument Rack 2252-84	Reactor	545.50	N/42	545.50	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D03-2203-0005	0	1 / INSTRUMENT RACKS/ Instrument Rack 2203-5	Reactor	545.50	M/47	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	D03-2203-0006	0	1 / INSTRUMENT RACKS/ Instrument Rack 2203-6	Reactor	545.50	K/49	545.50	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D03-2203-0007	0	1 / INSTRUMENT RACKS/ Instrument Rack 2203-7	Reactor	517.50	K/45	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2203-0008	0	1 / INSTRUMENT RACKS/ Instrument Rack 2203-8	Reactor	517.50	K/49	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2203-0029	0	7 / INSTRUMENT RACKS/ Instrument Rack 2203-29	Reactor	476.50	SE C.RM N/46	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2203-0032	0	7 / INSTRUMENT RACKS/ Instrument Rack 2203-32	Reactor	545.50	L/46	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	D03-2203-0036	0	7 / INSTRUMENT RACKS/ Instrument Rack 2203-36	Reactor	476.50	SW C.RM M/49	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2203-0070A	0	/ INSTRUMENT RACKS/ Instrument Rack 2203-70A	Turbine	517.50	AEER 2203-70A	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
18	D03-2203-0070B	0	/ INSTRUMENT RACKS/ Instrument Rack 2203-70B	Turbine	517.50	AEER 2203-70B	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
18	D03-2203-0073A	0	/ INSTRUMENT RACKS/ Instrument Rack 2203-73A	Turbine	538.00	H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D03-2203-0073B	0	/ INSTRUMENT RACKS/ Instrument Rack 2203-73B	Turbine	538.00	H/35	538.00	Yes	BS	GRS	Yes	Yes	Yes	No	No
18	D03-2253-0083	0	7 / INSTRUMENT RACKS/ Instrument Rack 2253-83	Reactor	545.50	N/47	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes
18	D03-2253-0084	0	7 / INSTRUMENT RACKS/ Instrument Rack 2253-84	Reactor	545.50	N/48	545.50	Yes	BS	GRS	Yes	Yes	Yes	Yes	Yes

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R. P. Kennedy
Print or Type Name
Signature
Date 6/15/96

J. D. Stevenson
Print or Type Name
Signature
Date 6/22/96

Print or Type Name
Signature
Date

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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
18	D03-2301-PS4---PS	0	7 / HPCI/ Emergency Bearing Oil Pump Pressure Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2351-A----LS	0	7 / HPCI/ Torus Water Level Switch	Reactor	476.50	SW C.RM M/49	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2351-B----LS	0	7 / HPCI/ Torus Water Level Switch	Reactor	476.50	SW C.RM M/49	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2370-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2370-B----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2370-C----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2370-D----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2371-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2371-B----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2371-C----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2371-D----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2372-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2372-B----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2372-C----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2372-D----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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R. P. Kennedy	<i>Robert P. Kennedy</i>	6/11/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
J. D. Stevenson	<i>John D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
18	D03-2373-A-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2373-B-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2373-C-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-2373-D-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-LCS1-----LS	0	1 / HPCI/ Gland Seal Condenser Drain Pump Level Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D03-LCS2-----LS	0	1 / HPCI/ Gland Seal Condenser Drain Pump Level Switch	Reactor	476.50	HP RM3 N/46-47	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D00-2223-0033	0	7 / CONTROL PANEL/ DG Relaying and Metering Cabinet	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D00-2223-0041	0	7 / CONTROL PANEL/ DG Excitation Cabinet	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D00-2223-0053	0	7 / CONTROL PANEL/ Diesel Generator Fire Protection Panel	Turbine	517.50	G/45	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D00-2223-0109	0	7 / CONTROL PANEL/ DG Cooling Pump Transfer Switch Status	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D00-9400-0102	0	7 / CONTROL PANEL/ RCU Control Panel	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D00-9400-0103	0	4.5 / CONTROL PANEL/ Control Cabinet 9400-103	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D00-9400-0105	0	4.5 / CONTROL PANEL/ Control Cabinet 9400-105	Turbine	534.00	VENT RM2/3 G/32	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D00-ACP	0	7 / CONTROL PANEL/ Unit 2/3 Auxiliary Control Panel	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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Print or Type Name Signature Date 6/15/96

J. D. Stevenson
Print or Type Name Signature Date 6/22/96

Print or Type Name Signature Date

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Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Flt. El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
20	D00-NGC	0	4.5 / CONTROL PANEL/ Unit 2/3 Neutral Grounding Cabinet	Reactor	504.50	DG RM2/3 N/46	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D02-0902-0004	0	/ CONTROL PANELS/ Control Panel 902-4	N/A	534.00	C. RM PNL 902-4	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D02-0902-0015	0	/ CONTROL PANELS/ Control Panel 902-15	N/A	534.00	C. RM PL 902-15	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D02-0902-0017	0	/ CONTROL PANELS/ Control Panel 902-17	N/A	534.00	C. RM PL 902-17	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D02-0902-0019	0	/ CONTROL PANELS/ Control Panel 902-19	N/A	534.00	C. RM PL 902-19	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D02-0902-0028	0	/ CONTROL PANELS/ Control Panel 902-28	Turbine	517.50	AEER PNL 902-28	517.50	N/A	ABS	CRS	Yes	Yes	No	Yes	No
20	D02-0902-0032	0	/ CONTROL PANELS/ Control Panel 902-32	Turbine	517.50	AEER PNL 902-32	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D02-0902-0033	0	/ CONTROL PANELS/ Control Panel 902-33	Turbine	517.50	AEER PNL 902-33	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D02-0902-0036	0	/ CONTROL PANELS/ Control Panel 902-36	N/A	534.00	C. RM PL 902-36	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D02-0902-0039	0	/ CONTROL PANELS/ Control Panel 902-39	Turbine	517.50	AEER PNL 902-39	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D02-0902-0046	0	/ CONTROL PANELS/ Control Panel 902-46	Turbine	517.50	AEER PNL 902-46	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D02-0902-0047	0	/ CONTROL PANELS/ Control Panel 902-47	Turbine	517.50	AEER PNL 902-47	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D02-2252-0010	0	7 / CONTROL PANEL/ DG Metering and Relay Cabinet	Turbine	517.50	DG RM2 G-H/35	517.50	N/A	ABS	CRS	Yes	No	No	Yes	No
20	D02-2252-0021	0	7 / CONTROL PANEL/ DG Excitation Cabinet	Turbine	517.50	DG RM2 G-H/35	517.50	N/A	ABS	CRS	Yes	No	No	No	No

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J. D. Stevenson	<i>[Signature]</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
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Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
20	D02-7828-1-1--P06	0	/ DISTRIBUTION PANELS/ Distribution Panel 28-1-1	Reactor	517.50	L/38	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D03-0903-0004	0	4.5 / CONTROL PANELS/ Control Panel 903-4	N/A	534.00	C. RM PNL 903-4	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D03-0903-0015	0	/ CONTROL PANELS/ Control Panel 903-15	N/A	534.00	C. RM PL 903-15	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D03-0903-0017	0	/ CONTROL PANELS/ Control Panel 903-17	N/A	534.00	C. RM PL 903-17	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D03-0903-0019	0	/ CONTROL PANELS/ Control Panel 903-19	N/A	534.00	C. RM PL 903-19	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D03-0903-0028	0	/ CONTROL PANELS/ Control Panel 903-28	Turbine	517.50	AEER PNL 903-28	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D03-0903-0032	0	/ CONTROL PANELS/ Control Panel 903-32	Turbine	517.50	AEER PNL 903-32	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D03-0903-0033	0	/ CONTROL PANELS/ Control Panel 903-33	Turbine	517.50	AEER PNL 903-33	517.50	N/A	ABS	CRS	Yes	No	No	No	No
20	D03-0903-0036	0	/ CONTROL PANELS/ Control Panel 903-36	N/A	534.00	C. RM PL 903-36	534.00	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D03-0903-0039	0	/ CONTROL PANELS/ Control Panel 903-39	Turbine	517.50	AEER PNL 903-39	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D03-0903-0046	0	/ CONTROL PANELS/ Control Panel 903-46	Turbine	517.50	AEER PNL 903-46	517.50	N/A	ABS	CRS	Yes	Yes	Yes	No	No
20	D03-0903-0047	0	/ CONTROL PANELS/ Control Panel 903-47	Turbine	517.50	AEER PNL 903-47	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
20	D03-0923-0005	0	/ CONTROL PANELS/ Control Panel 923-5	N/A	534.00	C. RM PNL 923-5	534.00	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D03-2253-0010	0	7 / CONTROL PANEL/ DG Metering and Relay Cabinet	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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J. D. Stevenson
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Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	FI El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
20	D03-2253-0021	0	7 / CONTROL PANEL/ DG Excitation Cabinet	Turbine	517.50	DG RM3 G-H/55	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
20	D03-7838-1-1--P06	0	/ DISTRIBUTION PANELS/ Distribution Panel 38-1-1	Reactor	517.50	L-M/44	517.50	N/A	ABS	CRS	Yes	Yes	Yes	No	No

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J. D. Stevenson	<i>John D. Stevenson</i>	6/22/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
5	D02-2301-----T20	0	7 / HPCI/ HPCI Turbine	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-2301-0057-P30	0	/ HPCI/ HPCI Turbine Cooling Water Pump	Reactor	476.50	HP RM2 N/44	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-2301-CONDPP	0	/ HPCI/ Condenser Hotwell Condensate Pump	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
5	D02-2302-----P30	0	/ HPCI/ HPCI Pump	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
6	D02-1502-C----P30	0	/ LPCI/ LPCI Injection Pump C	Reactor	476.50	SW C.RM N/43	476.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
6	D02-1502-D----P30	0	/ LPCI/ LPCI Injection Pump D	Reactor	476.50	SW C.RM N/43	476.50	N/A	ABS	CRS	Yes	Unk	Unk	Yes	Unk
7	D02-0203-0001AV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0001BV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0001CV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0001DV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0003AV26	0	/ ADS/ Target Rock Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004AV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004BV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004CV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004DV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004EV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004FV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0203-0004GV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

Certification:

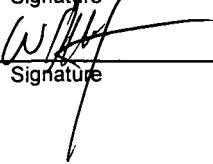
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B. M. Lory		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
G. G. Thomas		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
W. Djordjevic		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Flt. El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
7	D02-0203-0004HV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0157AV05	0	/ CRD/ West Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 8	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0157BV05	0	/ CRD/ East Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 3	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0158AV05	0	/ CRD/ West Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 8	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D02-0302-0158BV05	0	/ CRD/ East Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 3	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0202-0005AV20	0	/ REACTOR RECIRCULATION/ Recirc Pump A Discharge Valve	Reactor	515.50	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0202-0009AV20	0	/ REACTOR RECIRCULATION/ Recirc Crosstie Bypass Valve	Reactor	515.50	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-0003BV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-0003CV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-0003DV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-0003EV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001A1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001A2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001B1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001B2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001C1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

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B. M. Lory	<i>Bruce M. Lory</i>	6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
G. G. Thomas	<i>Gary G. Thomas</i>	6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
W. Djordjevic	<i>W. Djordjevic</i>	6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
8	D02-0203-001C2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001D1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0203-001D2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0157AV27	0	/ CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 8	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0157BV27	0	/ CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 3	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0158AV27	0	/ CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 8	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-0302-0158BV27	0	/ CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 3	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0003BV20	0	/ CCSW/ Heat Exchanger Outlet Service Water Line Valve	Reactor	476.50	SW C.RM N/43	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0011BV20	0	/ LPCI/ LPCI Heat Exchanger Bypass Line Valve	Reactor	476.50	SW C.RM M-N/43	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0013AV20	0	/ LPCI/ LPCI Minimum Flow Bypass Line Valve	Reactor	476.50	TORUS BAY 1	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0013BV20	0	/ LPCI/ LPCI Minimum Flow Bypass Line Valve	Reactor	476.50	TORUS BAY 11	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0020AV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 1	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0020BV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 11	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0022AV20	0	/ LPCI/ LPCI Injection Line Valve	Reactor	476.50	TORUS BAY 2	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0032BV20	0	/ LPCI/ LPCI Header Crosstie Line Valve	Reactor	476.50	SW C.RM N/43	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

Certification:

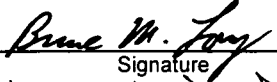
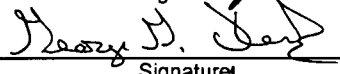
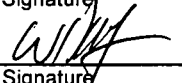
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Print or Type Name	Signature	Date	Print or Type Name	Signature
W. Djordjevic		6/14/96		
Print or Type Name	Signature	Date	Print or Type Name	Signature

Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl. El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
8	D02-1501-0038AV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 2	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-1501-0038BV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 10	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-2301-0003-V20	0	/ HPCI/ Turbine Steam Line Valve	Reactor	476.50	HP RM2 N/45	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-2301-0006-V20	0	/ HPCI/ Condensate Tank Supply to HPCI Pump Valve	Reactor	476.50	HP RM2 N/44	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-2301-0008-V20	0	/ HPCI/ HPCI Pump Injection Line Valve	Turbine	517.50	X AREA G-H/41	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-2301-0014-V20	0	/ HPCI/ HPCI Pump Test Line Valve	Reactor	476.50	HP RM2 N/44	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-2301-0035-V20	0	/ HPCI/ Suppression Pool Suction Line Valve	Reactor	476.50	HP RM2 N/44	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D02-2301-0036-V20	0	/ HPCI/ Suppression Pool Suction Line Valve	Reactor	476.50	SW C.RM N/43-44	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-2301-0036-V20	0	/ HPCI/ Suppression Pool Suction Line Valve	Reactor	476.50	TORUS BSMT 15	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
9	D02-2320-GSCE-F05	0	/ HPCI/ Gland Seal Condenser Exhaust Fan	Reactor	476.50	HP RM2 N/45-46	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D02-5746-B---H15	0	/ LPCI/ LPCI Emergency Room Air Cooler	Reactor	476.50	SW C.RM M/44	517.50	N/A	ABS	CRS	Yes	No	Yes	No	No
10	D02-5747-----H15	0	/ HPCI/ HPCI Emergency Air Cooler	Reactor	476.50	HP RM2 N/45	517.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
10	D02-LOC	0	/ HPCI/ Lube Oil Cooler	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2202-0029	0	1 / INSTRUMENT RACKS/ Instrument Rack 2202-29	Reactor	476.50	HP RM2 N/45-46	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2202-0036	0	1 / INSTRUMENT RACKS/ Instrument Rack 2202-36	Reactor	476.50	SW C.RM M/43	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2301-PS4---PS	0	7 / HPCI/ Emergency Bearing Oil Pump Pressure Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2351-A---LS	0	7 / HPCI/ Torus Water Level Switch	Reactor	476.50	SW C.RM M/43	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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G. G. Thomas	<i>G. G. Thomas</i>	6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
W. Djordjevic	<i>W. Djordjevic</i>	6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
18	D02-2351-B----LS	0	7 / HPCI/ Torus Water Level Switch	Reactor	476.50	SW C.RM M/43	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2370-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2370-B----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2370-C----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2370-D----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2371-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2371-B----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2371-C----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2371-D----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2372-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2372-B----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2372-C----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2372-D----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2373-A----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

Certification:

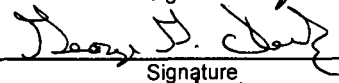
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W. Djordjevic		6/14/96			
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18	D02-2373-B-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2373-C-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-2373-D-----TS	0	7 / HPCI/ Steam Leak Detection Temperature Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-LCS1-----LS	0	1 / HPCI/ Gland Seal Condenser Drain Pump Level Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes
18	D02-LCS2-----LS	0	1 / HPCI/ Gland Seal Condenser Drain Pump Level Switch	Reactor	476.50	HP RM2 N/45	476.50	N/A	ABS	CRS	Yes	Yes	Yes	Yes	Yes

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7	D03-0203-0001AV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0001BV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0001CV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0001DV05	0	/ MAIN STEAM/ Isolation Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0003AV26	0	/ ADS/ Target Rock Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004AV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004BV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004CV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004DV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004EV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004FV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004GV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0203-0004HV26	0	/ ADS/ Reactor Overpressure Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0202-0005AV20	0	/ REACTOR RECIRCULATION/ Recirc Pump A Discharge Valve	Reactor	515.50	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-0003BV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-0003CV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-0003DV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-0003EV26	0	/ ADS/ Electromatic Relief Valve	Reactor	537.00	DRYWELL	545.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

Certification:

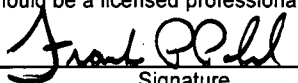
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G. G. Thomas		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
W. Djordjevic		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
8	D03-0203-001A1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001A2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001B1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001B2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001C1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001C2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001D1V27	0	/ MAIN STEAM/ Isolation DC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0203-001D2V27	0	/ MAIN STEAM/ Isolation AC Solenoid Valve	Reactor	515.42	DRYWELL	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes

Certification:

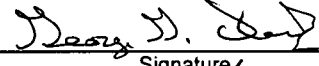
All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our knowledge and belief, correct and accurate. "All information" includes each entry and conclusion (whether verified to be seismically adequate or not).

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.

Approved: (One signature of Systems or Operations Engineer is required if the Seismic Capability Engineers deem it necessary.)

F. Polak		06/13/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
G. G. Thomas		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
W. Djordjevic		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

Eq. Cl	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl El.	Rm or Rw/Cl	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
7	D03-0302-0157AV05	0	/ CRD/ East Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 4	476.50	Yes	BS	GRS	Yes	Yes	N/A	No	No
7	D03-0302-0157BV05	0	/ CRD/ West Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 9	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0302-0158AV05	0	/ CRD/ East Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 4	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0302-0158BV05	0	/ CRD/ West Bank Scram Discharge Volume Drain Valve	Reactor	476.50	TORUS BAY 9	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0302-0160AV05	0	/ CRD/ East Bank Scram Discharge Volume Vent Valve	Reactor	517.50	DRY GALL J/45	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
7	D03-0302-0161AV05	0	/ CRD/ East Bank Scram Discharge Volume Vent Valve	Reactor	517.50	DRY GALL J/45	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0157AV27	0	/ CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 4	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0157BV27	0	/ CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 9	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0158AV27	0	/ CRD/ East Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 4	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0158BV27	0	/ CRD/ West Bank Scram Discharge Volume Drain Sol. Valve	Reactor	476.50	TORUS BAY 9	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0160AV27	0	/ CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	Reactor	517.50	DRY GALL J/45	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-0302-0161AV27	0	/ CRD/ East Bank Scram Discharge Volume Vent Sol. Valve	Reactor	517.50	DRY GALL J/45	517.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0013AV20	0	/ LPCI/ LPCI Minimum Flow Bypass Line Valve	Reactor	476.50	TORUS BAY 2	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0013BV20	0	/ LPCI/ LPCI Minimum Flow Bypass Line Valve	Reactor	476.50	TORUS BAY 10	476.50	Yes	BS	GRS	Yes	Yes	N/A	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:

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Approved: (One signature of Systems or Operations Engineer is required if the Seismic Capability Engineers deem it necessary.)

T. Loch	<i>T. Loch</i>	6-21-96		
Print or Type Name	Signature	Date	Print or Type Name	Signature
G. G. Thomas	<i>George G. Thomas</i>	6/14/96		
Print or Type Name	Signature	Date	Print or Type Name	Signature
Print or Type Name	Signature	Date	Print or Type Name	Signature

Eq. CI	Eq. ID	Rev No	Sys/Eq. Desc	Bldg.	Fl El.	Rm or Rw/CI	Base El.	<40'?	Cap. Spec.	Demd. Spec.	Cap > Demd?	Caveats OK?	Anchor OK?	Interact OK?	Equip OK?
8	D03-1501-0020AV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 2	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0020BV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 10	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0022AV20	0	/ LPCI/ LPCI Injection Line Valve	Reactor	476.50	TORUS BAY 2	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0038AV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 2	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-1501-0038BV20	0	/ LPCI/ Suppression Chamber Spray Line Valve	Reactor	476.50	TORUS BAY 10	476.50	Yes	BS	GRS	Yes	Yes	N/A	Yes	Yes
8	D03-2301-0008-V20	0	/ HPCI/ HPCI Pump Injection Line Valve	Turbine	517.50	X AREA G/46	517.50	Yes	BS	GRS	Yes	No	N/A	Yes	No

Certification:

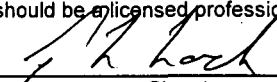
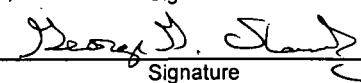
All the information contained on this Screening Verification Data Sheet (SVDS) is, to the best of our knowledge and belief, correct and accurate. "All information" includes each entry and conclusion (whether verified to be seismically adequate or not).

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:

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Approved: (One signature of Systems or Operations Engineer is required if the Seismic Capability Engineers deem it necessary.)

T. Loch		6-21-96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
G. G. Thomas		6/14/96			
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date
Print or Type Name	Signature	Date	Print or Type Name	Signature	Date

APPENDIX E

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) PEER REVIEW ASSESSMENT

The following provides the Peer Review Assessment performed by Mr. Harry Johnson of Programmatic Solutions.

PROGRAMMATIC SOLUTIONS, INC.

M E M O R A N D U M

DATE: May 22, 1996
TO: Leslie Wright
ComEd - Dresden
FROM: Harry Johnson
RE: Dresden USI A-46 and Seismic IPEEE Peer Review

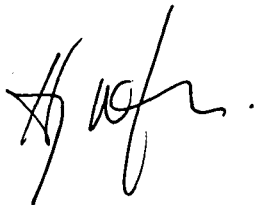
I have completed the subject peer reviews and completed my reports. The conclusion of both reports is:

The methods used for USI A-46/seismic IPEEE are appropriate, the methods have been correctly implemented, and the results and the recommended actions appear to be reasonable and consistent with those anticipated.

There are two reports attached:

- 085-96-002-L: report for USI A-46
- 085-96-003-L: report for seismic IPEEE

This transmittal completes my work for this task. I would like to thank you for this opportunity and for the cooperation that I received from all parties in performing this task. It was a pleasure. Should you have any questions on the reports or need any further assistance please feel free to call me at 516 261 5536.



Programmatic Solutions

24 Woodbine Avenue, Suite 12
Northport, New York 11768

085-96-002-L

May 22, 1996

Ms. Leslie Wright - SEC, 10-PAK
Commonwealth Edison - Dresden Nuclear Station
6500 North Dresden Road
Morris, IL 60450-9765

SUBJECT: Third Party Audit of USI A-46 - Dresden Units 2 & 3

Dear Ms. Wright:

This letter report summarizes the activities performed and the conclusions drawn from the Third Party Audit of the USI A-46 Implementation program for Dresden Units 2 & 3.

1.0 Scope of Third Party Audit

The scope of the third party audit covers all US A-46 topics that relate to the capacity of the equipment reviewed and the seismic demand that applies to these items. Specifically, the following activities were reviewed as a part of this third party audit.

1.1 The Dresden Seismic Design Bases

- Site seismicity
- Seismic input to structures and equipment
- Seismic design of mechanical and electrical equipment
- Seismic design of tanks
- Seismic spatial interaction issues

1.2 The USI A-46 Evaluation

- The overall approach used
- The screening criteria used
- The qualifications of the Seismic Review Team
- Screening walkdown implementation
- Results of the screening walkdown
- Outlier resolution
- Design enhancements

1.3 Control of Work

- Documentation of work
- Interface of the seismic activities with the systems activities

1.4 Conclusions and Results

- Reasonableness of results
- Appropriateness of recommended resolutions

1.5 Structures, Systems, and Components Included in the Third Party Audit

- Electrical and mechanical equipment included on the SSEL
- Tanks and heat exchangers included on the SSEL
- Electrical raceways
- Items which may have potential spatial interaction with SSEL items

2.0 Summary of Third Party Audit Activities

The following summarizes the activities performed for the third party audit of USI A-46 activities for Dresden Units 2 & 3.

2.1 Third Party Audit Walkdown of Dresden Units 2 & 3

On April 11 and 12, 1996 a third party audit walkthrough of the plant was performed by Harry Johnson (Reference 2). The objectives of the walkthrough were the following:

- Gain familiarity with the typical design and installation of equipment used at Dresden.
- Review the seismic interaction potential at Dresden, Units 2 & 3.
- Discuss the SRT walkdown activities.
- Review at least one of each equipment classes on the SSEL

The conclusion from the third party walkthrough at Dresden Units 2 & 3 is that, in general, Dresden Units 2 & 3 are well designed for seismic loads and equipment installation appears to be quite rugged.

2.2 Third Party Audit of Methods Used

The third party audit of the methods was based on insights obtained during the third party audit walkdown of Dresden Units 2 & 3 and on review of the draft final reports (References 1, 3, and 4).

Observations regarding the methods used were provided in References 2.

2.3 Third Party Audit of Sample Documentation

During the site visit, a sample of the SEWS forms being filled out by the SRT were reviewed to determine if the documentation being developed was appropriate.

The documentation of walkdown and results provided in the project report (References 1) was reviewed. This documentation includes the following items:

- Summary of Dresden Units 2 & 3 seismic design basis
- Example SEWS forms
- Seismic Verification Data Sheets (SVDS)
- Walkdown Resumes
- Walkdown Comments by SRT
- Summary of Outlier Recommendations
- Photographs taken during the walkdown

2.4 Third Party Audit of Results

The results of the Dresden Unit 2 & 3 USI A-46 implementation are provided in the project reports. A third party review of the seismic evaluation report was performed on the draft reports (References 1, 3, and 4).

3.0 Results of Third Party Audit

3.1 Methods Used

The method used for Dresden Unit 2 & 3 conforms with the SQUG GIP method. This method has been accepted by the NRC as described in SSER Revision 2.

3.2 Implementation of Program

The Dresden Unit 2 & 3 USI A-46 implementation has been correctly implemented and documented.

3.3 Reasonableness of Results

Based on the third party audit walkdown and review of the methods used for the Dresden Unit 2 & 3 USI A-46 implementation, the results appear to be reasonable and consistent with those anticipated.

3.4 Recommended Actions

The recommended actions resulting from USI A-46 are documented in the project reports in Sections 4.6 (equipment), 6.2 (tanks and heat exchangers), and 7.3 (electrical raceways) of the Seismic Evaluation Report (Reference 1 and 4). These recommended actions appear to be reasonable and consistent with those anticipated.

4.0 Conclusions

The methods used for the Dresden Unit 2 & 3 implementation are appropriate, the methods have been correctly implemented, and the results and the recommended actions appear to be reasonable and consistent with those anticipated.

5.0 References

1. "USNRC USI A-46 Resolution Seismic Evaluation Report Dresden Nuclear Station Units 2 and 3", Report 93C2806-04.A46, Draft, April 30, 1996.
2. Programmatic Solutions letter 085-96-001-L, dated May 8, 1996.
3. Memo Stevenson & Associates, "Response to Draft Peer Review Letter for Dresden A-46 & IPEEE, dated May 13, 1996.
4. Revised Tables 8.1, 8.2, and 8.3 of Dresden A-46 Final Report, 2nd Draft, May 9, 1996.

Sincerely,



Harry Johnson
Senior Consultant

Programmatic Solutions

24 Woodbine Avenue, Suite 12
Northport, New York 11768

085-96-003-L

May 22, 1996

Ms. Leslie Wright - SEC, 10-PAK
Commonwealth Edison - Dresden Nuclear Station
6500 North Dresden Road
Morris, IL 60450-9765

SUBJECT: Peer Review Report of Seismic IPEEE - Dresden Units 2 and 3

Dear Mr. Djordjevic:

This letter report summarizes the activities performed and the conclusions drawn from the Peer Review of the Seismic Evaluation Portions of the Seismic IPEEE for Dresden Units 2 and 3.

1.0 Scope of Seismic Evaluation Peer Review

The scope of the seismic evaluation peer review covers all seismic IPEEE topics that relate to the capacity of the equipment reviewed and the seismic demand that applies to these items. Specifically, the following seismic IPEEE activities were reviewed as a part of this peer review.

1.1 The Dresden Units 2 and 3 Seismic Design Bases

- Site Seismicity
- Seismic Input to Structures and Equipment
- Seismic Analysis of Seismic Category I Structures
- Seismic Design of Mechanical & Electrical Equipment
- Seismic Design of Tanks
- Seismic Design of Distribution Systems
- Seismic Design of the Containment and Other Seismic Category I Structures
- Seismic Spatial Interaction Issues

1.2 The SMA Evaluation

- The overall approach used
- The screening criteria used
- The qualifications of the Seismic Review Team
- Screening walkdown implementation
- Results of the screening walkdown
- Outlier resolution
- Design enhancements

1.3 Control of the Work

- Documentation of work
- Implementation of recommendations

1.4 Conclusions and Results

- Reasonableness of results
- Appropriateness of resolution

1.5 Structures, Systems, and Components Included in the Peer Review

- Electrical and mechanical equipment included on the SSEL
- Distribution systems (piping, raceways, and HVAC) included on the SSEL
- Tanks and heat exchangers included on the SSEL
- Items which may have potential spatial interaction with SSEL items
- Containment and structures related to early failure of containment function

SSEL items include items that: (1) are necessary to achieve and maintain hot shutdown, (2) are included to resolve USI A-45, (2) are potential seismic induced fire hazards, (4) are potential seismic induced flooding hazards, and (5) are necessary to prevent early containment failure.

2.0 Summary of Peer Review Activities

The following summarizes the activities performed for the peer review of seismic activities for the Dresden Units 2 and 3 seismic IPEEE.

2.1 Peer Review Walkdown of Dresden Units 2 and 3

On April 11 and 12, 1996 a peer review walkthrough of the plant was performed. The objectives of the walkthrough were the following:

- Gain a familiarity with the typical design and installation of equipment used at Dresden Units 2 and 3.
- Gain a familiarity with the typical design and installation of piping, raceways, and HVAC
- Review the seismic interaction potential at Dresden Units 2 and 3.
- Review at least one example of each of the equipment classes on the SSEL

The general conclusions from the peer review walkthrough at Dresden Units 2 and 3 were the following (Reference 2):

1. In general it appears that the plant is well designed for earthquake loads and that good construction practices were used. While some installation details may be identified which may indicate the need for some attention to improve the seismic performance of certain equipment, I would not anticipate that any broad based improvement effort will be required.
2. Plant housekeeping appears to be well managed to limit seismic interaction concerns. Very limited instances of seismic housekeeping issues were seen.

2.2 Peer Review of the Methods Used

The method used for the seismic IPEEE for Dresden Units 2 and 3 is the EPRI SMA method for a Focused Scope plants in accordance with NUREG 1407. The peer review of the methods was based on the insights obtained during the peer review walkdown of Dresden Units 2 and 3 and on review of the draft final report (Reference 1, 3, and 4).

Observations regarding the methods used were provided in Reference 2. The observations regarding the method were related to: (1) method used for outlier resolution and (2) need for additional clarification of the method used for certain aspects of the SMA.

2.3 Peer Review of Sample Documentation

A sample of the SEWS forms being filled out by the SRT were reviewed to determine if the documentation being developed was appropriate.

The documentation of walkdown and results provided in the project report (Reference 1) was reviewed. This documentation includes the following items:

- Summary of the Dresden Units 2 and 3 seismic design basis
- Example SEWS forms
- Walkdown Resumes
- Walkdown Comments by SRT
- Summary of Resolution of Open Items
- Summary of Design Enhancements
- Photographs Taken During the Walkdown

2.4 Peer Review of Results

The results of the Dresden Units 2 and 3 seismic IPEEE (SMA) are provided in the project final report (Reference 1, 3, and 4). A peer review was performed on the draft final report.

3.0 Results of Peer Review

3.1 Methods Used

The method used for the Dresden Units 2 and 3 seismic IPEEE conforms with the EPRI SMA method as applied to a "Modified" Full Scope plant. This method has been accepted by the NRC as described in NUREG 1407 and NUREG 1488.

The method used for outlier resolution (as described in the project report) meets the intent of a Focused Scope seismic IPEEE evaluation as described in NUREG 1407 and is acceptable.

3.2 Implementation of the Program

The Dresden Units 2 and 3 seismic IPEEE program has been correctly implemented and documented.

3.3 Reasonableness of Results

Based on the peer review walkthrough and the methods used for the Dresden Units 2 and 3 seismic IPEEE the results appear to be reasonable and consistent with those anticipated.

3.4 Recommended Actions

The recommended actions resulting from the seismic IPEEE are documented in the project report in Section 3.1.4 (components and plant) and Section 3.1.5 (containment and structures). These recommended actions are reasonable and consistent with those anticipated.

4.0 Conclusions

The methods used for the seismic IPEEE are appropriate, the methods have been correctly implemented, and the results and the recommended actions appear to be reasonable and consistent with those anticipated.

5.0 References

1. Dresden Units 2 and 3 Seismic Portion of IPEEE Report, 1st draft, April 30, 1996.
2. Programmatic Solutions letter 085-96-001-L, dated May 8, 1996.

Ms. Leslie Wright

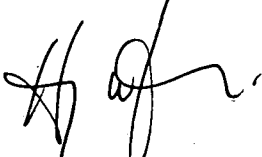
May 22, 1996

Page 5

3. Memo Stevenson & Associates, "Response to Draft Peer Review Letter for Dresden A-46 & IPEEE, dated May 13, 1996.
4. Revised Tables 8.1, 8.2, and 8.3 of Dresden A-46 Final Report, 2nd Draft, May 9, 1996.

Should you have any questions or require additional information regarding the peer review for Dresden Units 2 and 3, please call me at (516) 261 5536.

Yours truly,



Harry Johnson
Senior Consultant

PROGRAMMATIC SOLUTIONS

Harry W. Johnson

Education

Columbia University - Mechanics Engineer, 1968
University of Miami - Master of Science in Civil Engineering, 1967
University of Miami - Bachelor of Science in Civil Engineering, 1965
Bettis Atomic Power Laboratory - Reactor Engineering School, 1972
SQUG Walkdown Screening and Seismic Evaluation Training Course, 1992

Licenses and Registrations

California: Civil Engineer

Professional History

Programmatic Solutions, 1992
Robert L. Cloud & Associates, Inc, Senior Associate, 1990-1992
EQE Engineering, Senior Associate, 1986-1990
Impell Corporation, Section Manager, 1974-1986
Westinghouse Bettis Atomic Power Laboratory, Senior Engineer, 1969-1974
Cornell Aeronautical Laboratory, Project Engineer, 1968-1969

Experience

Mr. Johnson has over 20 years experience in engineering consulting in the power industry. In particular, Mr. Johnson has extensive experience in project management and design engineering.

Mr. Johnson is currently performing Peer Reviews for USI A-46 and/or IPEEE for Peach Bottom 2 & 3 and Limerick 1 & 2, Salem Units 1 & 2, Arkansas Nuclear One Units 1 & 2, Grand Gulf, and Waterford. Mr. Johnson is also performing Peer Review of experience based piping re-evaluation for the Brookhaven National Laboratory HFTR, performing a QA Audit of Seismic Programs for Indian Point Unit 2, performing USI A-46 walkdown for Indian Point Unit 3, helping to develop a plant specific seismic program to address USI A-46 for Crystal River, participating in the implementation of the Seismic IPEEE for Perry, and providing EPRI/PSE sponsored training for Seismic Technical Evaluation of Replacement Items and for Use of SQUG Methods for New and Replacement Equipment.

PROGRAMMATIC SOLUTIONS

Mr. Johnson has performed SQUG type seismic verifications for Peach Bottom, Vermont Yankee, Pilgrim, Three Mile Island, Oyster Creek, Maine Yankee, Princeton Tokamak (TFTR), Savannah River Project, Cruas (France), Sequoyah, and Indian Point Unit 2.

For TVA Bellefonte, Mr. Johnson developed an implementation strategy for the overall IPEEE program (all external events).

Mr. Johnson has performed Independent Peer Reviews of comprehensive seismic interaction programs at Watts Bar and Comanche Peak and of the equipment seismic qualification program at Watts Bar.

Mr. Johnson has participated in the development of SQUG training programs, and developed the original draft of training for the SQUG seismic interaction module. Mr. Johnson (along with Paul Smith of TRO) developed a 2 day training course in SQUG walkdown methods which has been presented to GPU Nuclear, PSE&G of New Jersey, Rochester Gas & Electric, New York Power Authority, Carolina Power & Light, Martin Marietta, Stone & Webster, and Gilbert/Commonwealth.

Mr. Johnson is heavily involved in applying SQUG methods to nuclear procurement programs, and is active in industry initiatives in this area. To date Mr. Johnson has managed the development of these methods for seven plants. Mr. Johnson is a contractor for EPRI/PSE in the development of Seismic Technical Evaluation of Replacement Items (STERI) and Generic STERI (GSTERI).

At EQE Mr. Johnson started up and managed the Eastern Regional Office. Project work included development of new methods for seismic evaluations of mechanical and electrical equipment using SQUG methods. For GPU Nuclear, Mr. Johnson developed and managed all work associated with the seismic verification of TMI and OCNGS control room cabinets, including verification of many modifications.

At Impell Mr. Johnson was Manager of Engineering Mechanics. This included design, project management and engineering evaluations.

At Bettis Mr. Johnson headed a reactor engineering stress/test group for an advanced submarine project.

At Cornell Aeronautical Laboratory Mr. Johnson performed projects related to automobile crash injury research.

Selected Publications

"Guideline for the Seismic Technical Evaluation of Replacement Items for Nuclear Power Plants (PSE-01)", EPRI NP-7484.

APPENDIX F

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) ANCHOR BOLT TIGHTNESS AND EMBEDMENT CHECKS

The following provides the results of the Anchor Bolt Tightness and Embedment Checks performed by Stevenson & Associates.

**DRESDEN NUCLEAR POWER STATION UNITS 2 & 3
SUMMARY OF ANCHOR BOLT
TIGHTNESS CHECKS**

**IN CONFORMANCE WITH
THE SQUG GENERIC IMPLEMENTATION PROCEDURE
PERFORMED FEB. 19 TO 21, 1996**

Prepared for:

**ComEd
Dresden Nuclear Power Station
6500 N. Dresden Rd.
Morris, IL 60450**

Prepared by:

**Stevenson & Associates
9217 Midwest Avenue
Cleveland, Ohio 44125**

1.0 INTRODUCTION

This report summarizes the results of the expansion anchor bolt tightness checks performed at the Dresden Nuclear Power Plant on Feb. 19 to 21, 1996. The checks were performed in order to satisfy the SQUG Generic Implementation Procedure (GIP) requirements contained in Appendix C, Section C.2.3 of the GIP. A Dresden plant specific procedure was developed and used for the bolt tightness checks. The procedure is attached to this report. The tightness check was performed as explained in the procedure using a standard 12" or 18" open-ended wrench on the bolt head or nut and applying a torque by hand until the bolt or nut is "wrench tight". The torque values used for the test are contained in the attached procedure and conform to Table C.2-3 of the GIP.

The bolt tightness checks were performed on February 19 to 21, 1996. The checks were performed by Mr. George G. Thomas of Stevenson and Associates and Mr. Bruce Lory of ComEd. Mr. Joseph Reda of Sargent & Lundy acted as the plant guide. The GIP allows for a sampling program to check the tightness of expansion anchors. However, in order to be as complete as possible the tightness checks at Dresden were performed on all accessible expansion anchors where the base anchorage may be subjected to a tensile load during an earthquake. A Bolt Tightness Check Data Sheet was developed for every item of equipment where expansion anchors were tested. The sheets indicated all viewed anchorages, which anchors were accessible and tested and the results of the test. Each sheet was signed by Mr. Thomas and Mr. Lory. Section 2 of this report summarizes the results of the bolt tightness checks. The general result is that the installed expansion anchors at Dresden have at least a 95% confidence that no more than 5% of the expansion anchors fail to meet the tightness guidelines above (95/5 criterion).

2.0 RESULTS OF BOLT TIGHTNESS CHECKS

Table 2.1 indicate the results of the bolt tightness checks for each item of equipment. When all the bolts visually identified were not tested, the reason for this is given in the results and notes column. All accessible expansion anchors where the base anchorage may be subjected to a tensile load during an earthquake were tested. There were a total of 604 anchors tested out of the 759 expansion anchors visually confirmed for the equipment. In this sample there were only two non-conforming bolts (bolts which required more than a 1/4 turn to become "wrench tight"). The sample could not be described as homogeneous as defined in the GIP, however with only two non-conforming anchors out of the 604 tested the general objective of meeting the 95/5 criterion described above is satisfied. Although the acceptance criteria for the bolt tests was to be wrench tight after no more than 1/4 turn, there were less than 10 bolts that had any perceivable movement during the test.

Table 2.1
Summary of Results for the Bolt Tightness Checks
at the Dresden Nuclear Power Plant

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
1	D03-7838-2--- -M05	480V AC/ MCC 38-2	Turbine	534	G/47-48	12 - 3/8" Diameter Non - Shell Expansion Bolts	12 Tested	All Bolts Tight
1	D03-7838-3--- -M05	480V AC/ MCC 38-3	Turbine	517.5	G/44	12 - 3/8" Diameter Non - Shell Expansion Bolts	12 Tested	All Bolts Tight
1	D03-7839-2--- -M05	480V AC/ 480V MCC 39-2	Turbine	534	G/44-45	26 - 3/8" Diameter Non - Shell Expansion Bolts	26 Tested	All Bolts Tight
3	D02-6723----- -S35	4160V AC/ Switchgear 23	Turbine	534	D-E/32	24 - 3/8" and 6- 5/8" Diameter Non - Shell Expansion Bolts	30 Tested	All Bolts Tight
3	D02-67231----- -S35	4160V AC/ Switchgear 23-1	Reactor	545.5	M-N/39-40	26 - 3/8" Diameter Non - Shell Expansion Bolts	26 Tested	All Bolts Tight
3	D02-6724----- -S35	4160V AC/ Switchgear 24	Turbine	534	D-E/32	28 - 3/8" Diameter Non - Shell Expansion Bolts	28 Tested	All Bolts Tight
3	D02-67241----- -S35	4160V AC/ Switchgear 24-1	Reactor	545.5	M-N/41-42	26 - 3/8" Diameter Non - Shell Expansion Bolts	26 Tested	All Bolts Tight
3	D03-6733----- -S35	4160V AC/ Switchgear 33	Turbine	538	D-E/54-55	24 - 3/8" Diameter Non - Shell Expansion Bolts	24 Tested	All Bolts Tight
3	D03-67331----- -S35	4160V AC/ Switchgear 33-1	Reactor	545.5	M-N/46-47	26 - 3/8" Diameter Non - Shell Expansion Bolts	26 Tested	All Bolts Tight
3	D03-6734----- -S35	4160V AC/ Switchgear 34	Turbine	538	D-E/54-55	28 - 3/8" Diameter Non - Shell Expansion Bolts	28 Tested	All Bolts Tight
3	D03-67341-----	4160V AC/ Switchgear	Reactor	545.5	M-N/48-49	26 - 3/8" Diameter	26 Tested	All Bolts Tight

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
	-S35	34-1				Non - Shell Expansion Bolts		
5	D00-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	Reactor	504.5	N/46	4 - 3/8" Diameter Non-Shell Expansion Bolts	4 Tested	All Bolts Tight
9	D00-9400-0104AF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	Turbine	549	G-H/31	6 - 3/8" Diameter Non-Shell Expansion Bolts	6 Tested	All Bolts Tight
9	D00-9400-0104BF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	Turbine	549	G-H/31	6 - 3/8" Diameter Non-Shell Expansion Bolts	6 Tested	All Bolts Tight
10	D00-9400-0100-F05	CONTROL ROOM VENTILATION/ Air Handling Unit	Turbine	549	G-H/31	24 - 5/8" Diameter Non-Shell Expansion Bolts	24 Tested	All Bolts Tight
10	D00-9400-0101-F10	CONTROL ROOM VENTILATION/ Air Filtration Unit	Turbine	549	G-H/31	8 - 5/8" Diameter Non-Shell Expansion Bolts	8 Tested	All Bolts Tight
10	D00-9400-0102-R15	CONTROL ROOM VENTILATION/ Refrigeration Condensing Unit	Turbine	549	G-H/31	8 - 3/4" Diameter Non-Shell Expansion Bolts	8 Tested	All Bolts Tight
	D00-9400-0105					14 - 5/8" Diameter Non-Shell Expansion Bolts	14 Tested	All Tight
18	D03-2202-0005	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
18	D03-2202-0006	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
18	D03-2202-0007	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
18	D03-2202-0008	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
18	D03-2203-0005	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
18	D03-2203-0006	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
18	D03-2203-0007	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
18	D03-2203-0008	Instrument rack	Reactor			Rack is Braced to Wall such that bolts on the floor will be subject to shear only	Testing not required.	Testing not required. These racks pass anchorage screening.
15	D03-83250---B04	250V DC/ Battery #3, Feed to TB MCC #3	Turbine	549	G/31-32	48 - 1/2" Diameter Non-Shell Expansion Anchors	34 Tested	All Tested Bolts were tight. Bolts not tested were inaccessible - too far under rack to reach.
15	D02-8300--BC--B04	125V DC/ Battery #2, Feed to TB Battery Bus #2	Turbine	549	E-F/31-32	24 - 1/2" Diameter Non-Shell Expansion Anchors	18 Tested	All Tested Bolts were tight. Bolts not tested were inaccessible - too far under rack to reach.
15	D02-9802-A--B04	24/48V DC/ Battery #2A	Turbine	549	F/31-32	12 - 3/8" Diameter Non-Shell Expansion Anchors	Could not tightness check	Could not tightness check because of silicon RTV coating on nuts. All nuts were snug against base plate.
15	D02-9802-B--B04	24/48V DC/ Battery #2B	Turbine	549	F/32	12 - 3/8" Diameter Non-Shell Expansion Anchors	Could not tightness check	Could not tightness check because of silicon RTV coating on nuts. All nuts were snug against base plate.

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
15	D03-8300--BC--B04	125V DC/ Battery #3, Feed to TB Battery Bus #3	Turbine	551	G-H/55-56	33 - 3/8" and 27 - 1/2" Diameter Non-Shell Expansion Anchors	22 - 3/8" and 20 - 1/2" bolts tested.	All Tested Bolts were tight.
15	D03-9802-A--B04	24/48V DC/ Battery #3A	Turbine	551	G/56	12 - 3/8" Diameter Non-Shell Expansion Anchors	Could not tightness check	Could not tightness check because of silicon RTV coating on nuts. All nuts were snug against base plate.
15	D03-9802-B--B04	24/48V DC/ Battery #3B	Turbine	551	G-H/55	12 - 3/8" Diameter Non-Shell Expansion Anchors	Could not tightness check	Could not tightness check because of silicon RTV coating on nuts. All nuts were snug against base plate.
21	D00-4600-B--T05	DIESEL GENERATOR/ Air Start Tank A1				9 - 1/2" and 1 - 3/8" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D00-4600-C--T05	DIESEL GENERATOR/ Air Start Tank A2				9 - 1/2" and 1 - 3/8" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D00-4600-G--T05	DIESEL GENERATOR/ Air Start Tank B1				9 - 1/2" and 1 - 3/8" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D00-4600-H--T05	DIESEL GENERATOR/ Air Start Tank B2				9 - 1/2" and 1 - 3/8" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
20	0902-15	Control Room Panel	N/A			4 - 3/4" Diameter Shell Expansion Bolts.	Two Bolt Tested.	The tested bolts was tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0902-17	Control Room Panel	N/A			4 - 3/4" Diameter Shell Expansion	One Bolt Tested.	The tested bolt was tight. The remaining bolts were

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
						Bolts.		inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0902-19	Control Room Panel	N/A			1 - 3/4" Diameter Shell Expansion Bolt.	The bolt was inaccessible.	The bolt was inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0902-27	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	2 bolts tested.	All tested bolts were tight.
20	0902-28	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 bolts tested.	One bolt failed out of the four bolts tested.
20	0902-3	Control Room Panel	N/A			5 - 3/4" Diameter Shell Expansion Bolts.	One Bolt Tested.	The tested bolt was tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0902-32	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 bolts tested.	All bolts tight.
20	0902-33	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 bolts tested.	All bolts tight.
20	0902-36	Control Room Panel	N/A			3 - 3/4" Diameter Shell Expansion Bolts.	All bolts were inaccessible.	The bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0902-39	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 bolts tested.	All bolts tight.
20	0902-4	Control Room Panel	N/A			7 - 3/4" Diameter Shell Expansion Bolts.	One bolt tested.	The tested bolt was tight. The remaining bolts were inaccessible. Dresden operators

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
								did not permit the moving of cables inside the cabinets to test the bolts.
20	0902-46	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Non-Shell Expansion anchors on the outside and 3 - 3/8" Diameter Shell Expansion Bolts on the inside.	All bolts tested.	All bolts tight.
20	0902-47	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 bolts tested.	All bolts tight.
20	0902-5	Control Room Panel	N/A			12 - 3/4" Diameter Shell Expansion Bolts.	6 bolts tested.	The tested bolts were tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-15	Control Room Panel	N/A			4 - 3/4" Diameter Shell Expansion Bolts.	2 bolts tested.	The tested bolts were tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-17	Control Room Panel	N/A			4 - 3/4" Diameter Shell Expansion Bolts.	3 bolts tested.	The tested bolts were tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-19	Control Room Panel	N/A			2 - 3/4" Diameter Shell Expansion Bolts.	All bolts were inaccessible.	The bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-27	Aux Electric Room	N/A			5 - 3/8" Diameter	5 bolts tested.	All bolts tight.

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
		Panel				Shell Expansion Bolts.		
20	0903-28	Aux Electric Room Panel	N/A			4 - 3/4" Diameter Shell Expansion Bolts.	One bolt tested.	The tested bolt was tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-3	Control Room Panel	N/A			8 - 3/4" Diameter Shell Expansion Bolts.	One bolt tested.	The tested bolt was tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-32	Aux Electric Room Panel	N/A			6 - 3/8" Diameter Non-Shell and 4 - 3/8" Diameter Shell Expansion Anchors	6 Non-Shell and 3 Shell Anchors were tested.	All tested bolts passed.
20	0903-33	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Anchors.	4 Bolts Tested.	Three bolts passed and one bolt failed. This bolt was tight in the shell but had a 1/8" gap between it's head and the cabinet base.
20	0903-36	Control Room Panel	N/A			3 - 3/4" Diameter Shell Expansion Bolts.	One bolt tested.	The tested bolt was tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0903-39	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 tested.	All bolts tight.
20	0903-46	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion Bolts.	4 tested.	All bolts tight.
20	0903-47	Aux Electric Room Panel	N/A			4 - 3/8" Diameter Shell Expansion	4 tested.	All bolts tight.

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
						Bolts.		
20	0903-5	Control Room Panel	N/A			12 - 3/4" Diameter Shell Expansion Bolts.	5 bolts tested.	The tested bolts were tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	903-52A					3 - 3/8" Diameter Expansion Bolts, and 2 - 3/8" Shell Expansion Bolts.	5 tested.	All bolts tight. Panel 903-52A and 903-52B are in the same assembly.
20	903-52B					3 - 3/8" Diameter Expansion Bolts, and 2 - 3/8" Shell Expansion Bolts.	5 tested.	All bolts tight. Panel 903-52A and 903-52B are in the same assembly.
20	0903-8	Control Room Panel	N/A			6 - 3/4" Diameter Shell Expansion Bolts.	3 bolts tested.	The tested bolts were tight. The remaining bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	0923-5	Control Room Panel	N/A			Only two 3/4" shell expansion anchors could be seen. Others were covered by cable.	The bolts were inaccessible.	The bolts were inaccessible. Dresden operators did not permit the moving of cables inside the cabinets to test the bolts.
20	2202-70A	Aux Electric Room Panel	N/A			9 - 1/2" Diameter Non- Shell Expansion Bolts.	9 tested.	All bolts tight.
20	2202-70B	Aux Electric Room Panel	N/A			8 - 1/2" Diameter Non- Shell Expansion Bolts.	8 tested.	All bolts tight.
20	2203-70A	Aux Electric Room Panel	N/A			9 - 1/2" Diameter Non- Shell Expansion Bolts.	9 tested.	All bolts tight.
20	2203-70B	Aux Electric Room	N/A			9 - 1/2" Diameter	9 tested.	All bolts tight.

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
		Panel				Non- Shell Expansion Bolts.		
	2252-84					8 - 1/2" Diameter Non-Shell Expansion Bolts.	8 tested.	Panel with two base plate supports @ base. Each base plate has four bolts. All bolts are tight.
20	D03-2202-73A	Panel				6 - 1/2" Diameter Non-Shell Expansion Bolts.	One bolt tested.	The tested bolt passed the remaining bolts were inaccessible.
20	D03-2202-73B	Panel				6 - 1/2" Diameter Non-Shell Expansion Bolts.	4 bolts tested.	The tested bolts passed the remaining bolts were inaccessible.
20	D03-2203-73A	Panel				6 - 1/2" Diameter Non-Shell Expansion Bolts.	2 bolts tested.	The tested bolts passed the remaining bolts were inaccessible.
20	D03-2203-73B	Panel				6 - 1/2" Diameter Non-Shell Expansion Bolts.	5 bolts tested.	The tested bolts passed the remaining bolts were inaccessible.
21	D02-4600-B--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	Turbine	517.5	G-H/34-35	10 - 1/2" Diameter Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D02-4600-C--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	Turbine	517.5	G-H/34-35	10 - 1/2" Diameter Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D02-4600-G--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	Turbine	517.5	G-H/34-35	10 - 1/2" Diameter Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D02-4600-H--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	Turbine	517.5	G-H/34-35	10 - 1/2" Diameter Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D03-4600-B--T05	DIESEL GENERATOR/	Turbine	517.5	G-H/54-55	10 - 1/2" Diameter Non-Shell Expansion	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a

Class	ID	Description	Building	Elevation	Location	Description of Total Anchorage	Total Number of Bolts Tested	Results and Notes
		Primary Gas Air Receiver Unit "A1"				Bolt		common skid. Anchorage is for the entire skid.
21	D03-4600-C--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	Turbine	517.5	G-H/54-55	10 - 1/2" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D03-4600-G--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	Turbine	517.5	G-H/54-55	10 - 1/2" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.
21	D03-4600-H--T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	Turbine	517.5	G-H/54-55	10 - 1/2" Diameter Non-Shell Expansion Bolt	10 tested.	All bolts tight. Air Start Tank A1, A2, B1, and B2 are on a common skid. Anchorage is for the entire skid.

Non Station Procedure Cover Sheet

Procedure for Unresolved Safety Issue (USI A-46)
Anchor Bolt Tightness Check at the
Dresden Nuclear Power Station
Units 2&3

Procedure Number: 94C2806A\RPT11.27
Revision Number: 0

Requirements:

1. Procedure
2. Torque or Crescent Wrench
3. List of SQUG Safe Shutdown Equipment

Special Controls/Reviews:

1. This procedure applies only to expansion anchors on the SQUG Safe Shutdown Equipment List requiring a tightness check per Seismic Qualification Utility Group, "Generic Implementation Procedure for Seismic Verification of Nuclear Power Plant Equipment, "Rev. 2, corrected 2/14/92.

Design Engineering
Cognizant Dept.

L.T. Wright, x3289
Cognizant Eng.

T. Rieck *1.9 Rieck*
Authorization

2/8/96
Effective Date

CATEGORY 3

DDP 09-05
REVISION 05

NON-STATION PROCEDURE ROUTING

Sequential Review #: 1069

GENERAL INFORMATION

Procedure Number: 94C2806A RPT 11.27 Revision: 0
 Title: Procedure for Unresolved Safety Issue (UI-A-46) for
Anchor Bolt Tightness Check at the Dresden Nuclear Station Unit 2 & 3.
 Originating Organization: Stevenson & Associates (George Gary Thomas)
9217 Midwest Ave. Cleveland OH 44125
 Using Organization: Same as originating organization (above)
 Cognizant Individual: Leslie Wright
Design Engineering ext: 3289
 Unit 1 Review Required: ☐ YES ☐ NO

TECHNICAL REVIEW AND CONTROL

Technical Reviewer	Signature	Date
<u>Kishia Chhablani (ENG)</u>	<u>Kishia Chhablani</u>	<u>2-6-1996</u>
<u>Tom Dolan (QC)</u>	<u>Tom Dolan</u>	<u>2-6-96</u>
<u>Greg Roets (EH)</u>	<u>Greg Roets</u>	<u>2-7-96</u>
<u>Russell Peak (MM)</u>	<u>Russell Peak</u>	<u>2-7-96</u>

Quality Verification	Signature	Date
<u>DANIEL C. KIM (SQV)</u>	<u>Daniel C. Kim</u>	<u>2-8-96</u>
Verification	Signature	Date
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Technical Review Complete: _____
 Cognizant Individual/Date

AUTHORIZATION

Procedure Authorized for Use: J.A. Rich 2/8/96
 Cognizant Department Head/Date

NON-STATION PROCEDURE HISTORY

Procedure Number: 94C2806A\RPT 11.27 Revision: 0

Supportive References (letters, commitments, analyses, etc.): _____

① SQUG Generic Implementation Procedure (GIP) Revision 2, as
corrected on 2/23/91, Section C.2. Expansion Anchors.

② RUSAR Section 3.10

③ Design Eng Structural Letter transmitting procedure Review, CHRON 01314164
dated 1/31/96.

Subject experts or other personnel contacted:

Kishin Chhablani (ENG)Tom Dolan (QC), Georg Boets (Ken Bowden (EMS), Russell R. G. (mm), Tim Co. H (ENG)

Description and Justification for procedure or change: As part of the
resolution of Unresolved Safety Issue, USI A-46, using the
SQUG Methodology and Generic Implementation Procedures, a
tightness check is required for equipment on the SQUG Safe
Shutdown Equipment List that have concrete expansion
anchors. The methodology to perform this tightness check
is in Appendix C of the SQUG GIP, Rev. 2 corrected 2/23/91.
This procedure outlines the steps necessary for Stevenson &
Associates to perform this tightness check.

PROCEDURE FOR USI A-46
ANCHOR BOLT TIGHTNESS CHECK
AT THE DRESDEN NUCLEAR POWER STATIONS

REVISION 0

PROCEDURE FOR USI A-46
ANCHOR BOLT TIGHTNESS CHECK
AT THE DRESDEN NUCLEAR POWER STATIONS

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1.0 PURPOSE

This procedure is intended to provide guidance to Stevenson and Associates and ComEd personnel performing anchor bolt tightness checks at the Dresden Nuclear Power Station as required to resolve Unresolved Safety Issue A-46.

2.0 SCOPE

This standard applies only to expansion anchors requiring a tightness check per Reference 3.1 for equipment components on the USI A-46 Safe Shutdown Equipment List. The results of the tightness checks will be documented using Exhibit A. The list of equipment items requiring tightness checks are identified on Exhibit B.

3.0 REFERENCES

- 3.1 Seismic Qualification Utility Group, "Generic Implementation Procedure for Seismic Verification of Nuclear Plant Equipment," Rev. 2, corrected February 14, 1992.

4.0 GENERAL INFORMATION

Anchor bolts are used to attach equipment to concrete structures. Expansion anchors are anchor bolts installed after concrete placement and are secured by expanding against the drilled hole as opposed to cast-in-place and grouted-in-place bolts. Expansion anchors are either shell or non-shell type. A shell type anchor consists of a split tubular shell into which a conical plug is driven in order to expand the shell against the sides of the hole. A bolt or threaded rod and nut are then used to secure the piece of equipment. See Figure C.2-3 from Reference 3.1, attached.

Non-shell anchors are either wedge-type or sleeve-type. A typical wedge-type anchor consists of a split expansion ring and a threaded stud bolt with an integral cone expander. A sleeve-type anchor consists of a split tubular expansion shield and a threaded stud bolt with a cone expander. The non-shell anchor is installed by driving it into a hole drilled in concrete and tightening the nut and washer against the connected part.

Another type of anchor is the stud-type which shares characteristics of both shell and non-shell types. For A-46, the stud-type is classified as a shell-type anchor.

5.0 TIGHTNESS CHECK PROCEDURE

The tightness check will be performed on all accessible expansion anchors by using a standard size box or open-end wrench on the bolt head or nut and applying a torque by hand until the bolt or nut is "wrench tight", i.e., tightened without excessive exertion. The "Tightness Check Torque" values given below will be used for this expansion anchor tightness check. The values correspond to about 20% of the normal installation torques. Accessible expansion anchors are defined in this procedure as those that can be tested without removal of equipment, or fixed fire protection material and bolts that can be accessed without rewiring the equipment. The anchorage must also be accessible without electrical risk to the personnel performing the test.

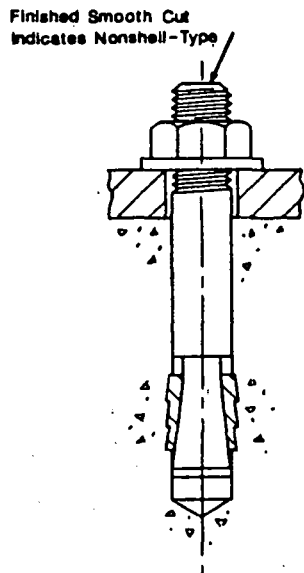
Recommended Torque Values for
Expansion Anchor Tightness Check
(From Reference 3.1)

Anchor Diameter (in.)	Tightness Check Torque (ft-lbs)
3/8	5 - 7
1/2	9 - 13
5/8	16 - 18
3/4	25 - 35
7/8	40 - 50
1	50 - 60

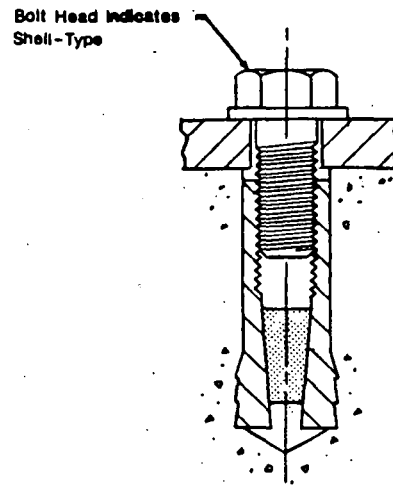
A well installed expansion anchor should not rotate under this applied torque. A small amount of initial rotation (about 1/4 turn) is acceptable provided the nut or bolt will tighten and resist the applied torque. If a bolt turns more than about 1/4 turn, but does eventually resist the torque, the potential for reduction in bolt capacity will be evaluated. If the bolt is loose in the hole (turns without resistance) an acceptable resolution of this condition may be demonstrated by showing there is adequate anchorage capacity without the loose bolt. The tightness checks will be performed with a standard 12 or 18 wrench. S&A has performed these tests in the past. It is a fairly easy process to apply the 5 to 40 lb. force necessary in a consistent and accurate way.

After the tightness check is performed, shell-type expansion anchors may be checked to confirm that the top of the shell is not touching the bottom of the base plate of the item of equipment being anchored. See Figure 4-4 from Reference 3.1, attached. This may be done by removing one bolt or nut from anchorage, visually inspecting the shell and confirming that the top of the shell anchor is not in contact with the bottom of the equipment base. If this spot check indicates the shells are properly installed no further shell checks are required on the specific item of equipment in question. When re-installing the anchor, it should be retorqued to a "wrench tight" condition or to the recommended tightness check torque values given above.

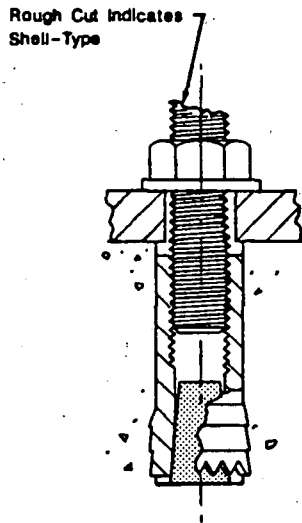
Bolts which require tightness and/or shell-anchor contact checks are identified in Exhibit B based on the criteria in Reference 3.1. Exhibit A will be used to provide a sketch of the anchor bolt pattern and the bolts to be checked.



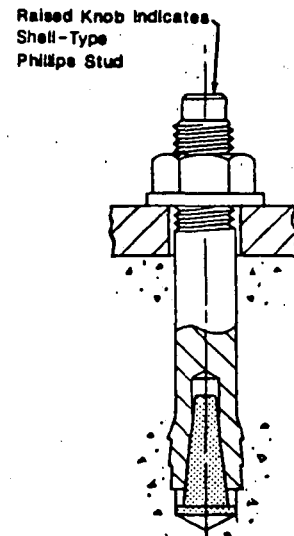
a. NONSHELL-TYPE



**b. SHELL-TYPE
WITH BOLT**

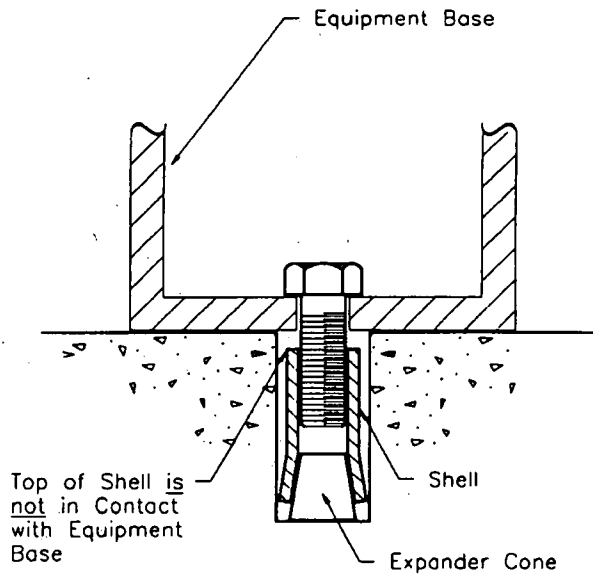


**c. SHELL-TYPE
WITH THREADED ROD**

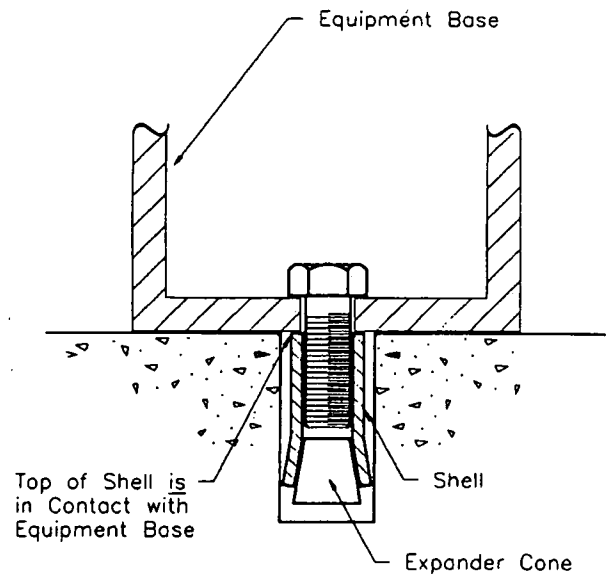


**d. SHELL-TYPE
PHILLIPS STUD**

GIP Figure C.2-3: Distinguishing Characteristics of Installed Shell- and Nonshell-Type Expansion Anchors.



**A. Properly Set Shell
After Tightness Check**



**B. Improperly Set Shell
After Tightness Check**

GIP Figure 4-4: Installation of Shell-Type Expansion Anchors

EXHIBIT A
BOLT TIGHTNESS CHECK
DATA SHEET

COMPONENT I.D. _____ DESCRIPTION _____

SKETCH OF BOLT PATTERN AND BOLTS TO BE CHECKED:

BOLT NO.	BOLT TYPE	BOLT DIA.	TIGHTNESS CHECK OK	IF SHELL ANCHOR, TOP OF SHELL OK (NOT IN CONTACT WITH BASE)	COMMENTS
	S = SHELL NS = NON- SHELL		Y = YES N = NO	Y = YES N = NO	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

PERFORMED BY: _____ DATE: _____
 WITNESSED BY: _____ DATE: _____

EXHIBIT B
ANCCHK.XLS

CLASS	MARK. NO.	EQUIPMENT DESCRIPTION	BUILDING	ELEVATION	RM. OR ROW/COL.
1	D03-7838-2----M05	480V AC/ MCC 38-2	Turbine	534	G/47-48
1	D03-7838-3----M05	480V AC/ MCC 38-3	Turbine	517.5	G/44
1	D03-7839-2----M05	480V AC/ 480V MCC 39-2	Turbine	534	G/44-45
3	D02-6723-----S35	4160V AC/ Switchgear 23	Turbine	534	D-E/32
3	D02-67231-----S35	4160V AC/ Switchgear 23-1	Reactor	545.5	M-N/39-40
3	D02-6724-----S35	4160V AC/ Switchgear 24	Turbine	534	D-E/32
3	D02-67241-----S35	4160V AC/ Switchgear 24-1	Reactor	545.5	M-N/41-42
3	D03-6733-----S35	4160V AC/ Switchgear 33	Turbine	538	D-E/54-55
3	D03-67331-----S35	4160V AC/ Switchgear 33-1	Reactor	545.5	M-N/46-47
3	D03-6734-----S35	4160V AC/ Switchgear 34	Turbine	538	D-E/54-55
3	D03-67341-----S35	4160V AC/ Switchgear 34-1	Reactor	545.5	M-N/48-49
5	D00-5203-----P30	DIESEL GENERATOR/ Fuel Oil Transfer Pump	Reactor	504.5	N/46
9	D00-9400-0104AF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	Turbine	549	G-H/31
9	D00-9400-0104BF05	CONTROL ROOM VENTILATION/ AFU Booster Fan	Turbine	549	G-H/31
10	D00-9400-0100-F05	CONTROL ROOM VENTILATION/ Air Handling Unit	Turbine	549	G-H/31
10	D00-9400-0101-F10	CONTROL ROOM VENTILATION/ Air Filtration Unit	Turbine	549	G-H/31
10	D00-9400-0102-R15	CONTROL ROOM VENTILATION/ Refrigeration Condensing Unit	Turbine	549	G-H/31
18	D03-2202-0005	Instrument rack	Reactor		
18	D03-2202-0006	Instrument rack	Reactor		
18	D03-2202-0007	Instrument rack	Reactor		
18	D03-2202-0008	Instrument rack	Reactor		
18	D03-2203-0005	Instrument rack	Reactor		
18	D03-2203-0006	Instrument rack	Reactor		
18	D03-2203-0007	Instrument rack	Reactor		
18	D03-2203-0008	Instrument rack	Reactor		
14	D03-83250-----B04	250V DC/ Battery #3, Feed to TB MCC #3	Turbine	549	G/31-32
15	D02-8300--BC--B04	125V DC/ Battery #2, Feed to TB Battery Bus #2	Turbine	549	E-F/31-32
15	D02-9802-A----B04	24/48V DC/ Battery #2A	Turbine	549	F/31-32

CLASS	MARK. NO.	EQUIPMENT DESCRIPTION	BUILDING	ELEVATION	RM. OR ROW/COL.
15	D02-9802-B----B04	24/48V DC/ Battery #2B	Turbine	549	F/32
15	D03-8300--BC--B04	125V DC/ Battery #3, Feed to TB Battery Bus #3	Turbine	551	G-H/55-56
15	D03-9802-A----B04	24/48V DC/ Battery #3A	Turbine	551	G/56
15	D03-9802-B----B04	24/48V DC/ Battery #3B	Turbine	551	G-H/55
17	D00-4600-B----T05	DIESEL GENERATOR/ Air Start Tank A1			
17	D00-4600-C----T05	DIESEL GENERATOR/ Air Start Tank A2			
17	D00-4600-G----T05	DIESEL GENERATOR/ Air Start Tank B1			
17	D00-4600-H----T05	DIESEL GENERATOR/ Air Start Tank B2			
20	0902-15	Control Room Panel	N/A		
20	0902-17	Control Room Panel	N/A		
20	0902-19	Control Room Panel	N/A		
20	0902-28	Aux Electric Room Panel	N/A		
20	0902-3	Control Room Panel	N/A		
20	0902-32	Aux Electric Room Panel	N/A		
20	0902-33	Aux Electric Room Panel	N/A		
20	0902-36	Control Room Panel	N/A		
20	0902-39	Aux Electric Room Panel	N/A		
20	0902-4	Control Room Panel	N/A		
20	0902-46	Aux Electric Room Panel	N/A		
20	0902-47	Aux Electric Room Panel	N/A		
20	0902-5	Control Room Panel	N/A		
20	0903-15	Control Room Panel	N/A		
20	0903-17	Control Room Panel	N/A		
20	0903-19	Control Room Panel	N/A		
20	0903-28	Aux Electric Room Panel	N/A		
20	0903-3	Control Room Panel	N/A		
20	0903-32	Aux Electric Room Panel	N/A		
20	0903-33	Aux Electric Room Panel	N/A		
20	0903-36	Control Room Panel	N/A		
20	0903-39	Aux Electric Room Panel	N/A		
20	0903-46	Aux Electric Room Panel	N/A		
20	0903-47	Aux Electric Room Panel	N/A		
20	0903-5	Control Room Panel	N/A		
20	903-52A				
20	903-52B				
20	0903-8	Control Room Panel	N/A		
20	0923-5	Control Room Panel	N/A		
20	2202-70A	Aux Electric Room Panel	N/A		
20	2202-70B	Aux Electric Room Panel	N/A		
20	2203-70A	Aux Electric Room Panel	N/A		
20	2203-70B	Aux Electric Room Panel	N/A		
	2252-84				
20	D03-2202-73A	Panel			
20	D03-2202-73B	Panel			

CLASS	MARK. NO.	EQUIPMENT DESCRIPTION	BUILDING	ELEVATION	RM. OR ROW/COL.
20	D03-2203-73A	Panel			
20	D03-2203-73B	Panel			
21	D02-4600-B----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	Turbine	517.5	G-H/34-35
21	D02-4600-C----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	Turbine	517.5	G-H/34-35
21	D02-4600-G----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	Turbine	517.5	G-H/34-35
21	D02-4600-H----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	Turbine	517.5	G-H/34-35
21	D03-4600-B----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A1"	Turbine	517.5	G-H/54-55
21	D03-4600-C----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "A2"	Turbine	517.5	G-H/54-55
21	D03-4600-G----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B1"	Turbine	517.5	G-H/54-55
21	D03-4600-H----T05	DIESEL GENERATOR/ Primary Gas Air Receiver Unit "B2"	Turbine	517.5	G-H/54-55

APPENDIX G

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) OPERATIONS DEPARTMENT REVIEW / PROCEDURES

The following provides the Dresden Nuclear Power Station Operations Department Review of the SQUG Safe Shutdown Systems, and the Normal and Emergency Operating Procedures for the SQUG Safe Shutdown Systems.

NOTE: The systems were chosen not only for the USI A-46 Program, but also for the resolution of Generic Letter 88-20, Individual Plants Examination of External Events. Therefore, the systems chosen also satisfy a 1 inch LOCA in accordance with the requirements of Generic Letter, GL 88-20.

To: Leslie Wright SEC SQUG Engineer

From: Bob Scott Assistant to the Operations Manager

Subject: Operations Review of SQUG Safe Shutdown Systems

As requested, Operations has completed a review of the systems that were chosen to shutdown the plant following a safe shutdown earthquake (SSE). The systems chosen have been found acceptable, with the addition of a means to get the reactor decay heat into the suppression pool and proper divisionalization. This is a followup response to the letter dated June 7, 1995.

The operation of each system is covered by procedure, except for the safety valves which will operate automatically when their lift pressure is reached. Support systems for each function path are not included in this list, but do need to be addressed during walkdowns of the systems. I found the support systems that you had listed during our discussions to be acceptable.

The systems/functional paths chosen will meet the following criteria:

- Achieve and maintain the plant in a hot shutdown condition within 72 hours following the SSE.
- A LOOP is considered to have occurred coincident with the SSE and lasts for the first 72 hours.
- No other design basis event is considered to occur other than the SSE.
- HPCI is assumed to be capable of controlling a 1 inch LOCA.

The paths selected will ensure the following essential safe shutdown functions are accomplished:

- Reactor Reactivity control
- Reactor Coolant Pressure control
- Reactor Coolant Inventory control
- Decay Heat removal

<u>Safe Shutdown Function</u>	<u>Primary Path</u>	<u>Backup Path</u>
Reactor Reactivity Control	CRD System	CRD System
Reactor Coolant Pressure Control	Relief Valves	Safety Valves
Reactor Coolant Inventory Control	HPCI	ADS/Div. I LPCI
Decay Heat Removal	HPCI/Div. II LPCI/ Div. II CCSW	Relief Valves/ Div. I LPCI/ Div. I CCSW


Bob Scott

Assistant to the Operations Manager

3-3-96

Operating Procedures for SQUG Safe Shutdown Equipment

List of Normal and Emergency Operating Procedures:

<u>System</u>	<u>Normal Operating Procedure</u>	<u>Emergency Operating Procedure</u>
Control Rod Drive (CRD)	DGP 2-3 "Reactor Scram"	DEOP 0100-00 "Reactor Control"
Automatic Depressurization System (ADS)	N/A	DEOP 0100-00 "Reactor Control"
High Pressure Coolant Injection (HPCI)	DOP 2300-03 "HPCI System Manual Startup and Operation"	DEOP 0100-00 "Reactor Control"
Low Pressure Coolant Injection (LPCI)	DOP 1500-05 "LPCI System Operation and/ or Shutdown after Auto Initiation"	DEOP 0100-00 "Reactor Control"
Containment Cooling Service Water (CCSW)	DOP 1500-02 "Toris Water Cooling Mode of LPCI System"	DEOP 0200-03 "Toris Water Temperature Control"

 6-4-96
OPERATIONS DEPARTMENT

APPENDIX H

SEISMIC QUALIFICATION UTILITIES GROUP (SQUG) PEER REVIEW OF SAFE SHUTDOWN SYSTEMS

The following provides the Peer Review of the SQUG Safe Shutdown Systems, performed by Mr. Robert Budnitz of Future Resources, Inc.

Future Resources Associates, Inc.

2039 Shattuck Avenue, Suite 402, Berkeley, California 94704

(510) 644-2700

FAX (510) 644-1117

21 November 1995

Mr. Thomas J. Tracy
Stevenson & Associates
10 State Street
Woburn, Massachusetts 01801

Dear Mr. Tracy:

I. INTRODUCTION

I am the systems-analysis peer reviewer for the the A-46/IPEEE seismic-review project that Commonwealth Edison is carrying out for their Dresden 2 and 3 nuclear stations. This letter is my peer review report for the work so far, involving review of the process for selecting the equipment lists for the A-46 and IPEEE reviews.

I performed my review work in two phases. In the first phase, I reviewed material that was sent to me from the power station, including not only a description of the equipment-selection methodology, but also an extensive computer-generated list of the equipment that had been selected.

In the second phase, I travelled to the Dresden site and met with two engineers, Leslie Wright and Joseph Reda, the former from Commonwealth Edison and the latter from Sargent & Lundy, a contractor working on this project. During this meeting, I had an opportunity to ask a large number of questions in order to learn about how the process was implemented. This included review of drawings as well as review of the tentative equipment list itself.

The objective of my review has been to develop an opinion as to the quality of the systems-analysis work involved in selecting the equipment lists for the A-46 and IPEEE reviews. I have done so, and my opinion is that the work is of uniformly high quality. What I mean by this is that the analysis team seems to me to understand well the objectives and regulatory "rules" that govern the equipment-selection work, including what difficulties in interpretation require clarification, and why.

II. OVERVIEW FINDINGS

There are several places where the A-46 guidance in the GIP and the IPEEE guidance in NUREG-1407 and EPRI NP-6041 are not as clear as they should be. In the work that I reviewed, the analysis team seems to have made what I believe to be all of the correct interpretations, such as how to define two "safe shutdown success paths," how to interpret the "rule of the box", and so on.

In examining the development of the SSEL, I carefully reviewed the way that the analysts selected the primary and alternate success paths, and the way that the support-system matrix was developed, covering which systems provide support to which front-line systems and which other support systems. The work here all makes sense to me.

Based on my review, I conclude that the task of developing the USI A-46 and IPEEE equipment lists at Dresden 2 and 3 has been successfully executed. I believe that the systems-analysis work that I have reviewed is of high quality. I have not identified any significant problems that require attention.

III. DETAILED REVIEW COMMENTS

The Four Safety Functions: I reviewed the way that the four safety functions were selected, including the primary and backup shutdown success paths. I am satisfied that these paths were selected sensibly: they are the paths that the operating crew would use in the event of a post-earthquake shutdown, they are in the crew's procedures, and they are suitably diverse where feasible. They also seem to follow the practice being used elsewhere around the country for other A-46 and IPEEE reviews.

It is acceptable, although not preferable, to select the equipment for the four safety functions on another basis than that they are the functions or equipment items preferred by the operating crew. For example, one might select certain non-preferred equipment because it is easier to review, or easier to gain access to, or would have much less radiation-exposure associated with its review, compared to the preferred equipment. However, I learned that none of these considerations entered into the selection of the equipment at Dresden. This is an important finding.

Pressure-System Boundaries: I reviewed the logic used in determining which pressure-system-boundary valves to include, and why. The guidance requires including all isolation valves in both the main lines and all branch lines that form the pressure system boundaries. In my review, which necessarily was only a spot-check, I ascertained that the analysis team understands the

guidance and seems to have implemented it correctly.

Relay Selection: The guidance requires including all relays involved in the four safety functions that would need to change state during or after a post-earthquake shutdown, as well as all relays that, although normally passive (that is, they should normally not change state) could cause difficulties if they were to change state during an earthquake. I reviewed the way that ~~this guidance was implemented for a selected subset of the whole~~ analysis and am satisfied that the analysis team understands the guidance.

Cable-Trays-Conduits-Raceways: The analysis team decided to review the entire plant at both Dresden 2 and 3 rather than attempt to differentiate those raceways with safety cables from those without. Therefore, there is no selection process to review here.

IPEEE Containment-Isolation Review: The IPEEE guidance emphasizes review of the containment-isolation function after an earthquake. This includes actuation equipment. I reviewed the logic that the Dresden analysis team has used in this aspect of their equipment-selection work and am fully satisfied with it.

The 72-Hour Criterion: The guidance requires that all equipment capable of assuring that the plant is in a safe state for 72 hours after the earthquake be on the equipment list. I inquired as to how this requirement has been understood by the analysis team and am satisfied that it has been implemented properly.

Small-small-LOCA Mitigation: The IPEEE guidance requires the analysts to assume that any earthquake large enough to cause other problems will cause a break in one or a few very small primary-circuit impulse lines, generating a so-called "small-small LOCA" that requires water to make up the lost inventory. This small-small LOCA must be assumed notwithstanding that otherwise the earthquake might cause no other compromises of primary-circuit integrity. I reviewed how this requirement has been handled at Dresden and am satisfied that the treatment is satisfactory.

IPEEE Incorporation of Human Errors and Other Non-Seismic Failures: The IPEEE guidance requires attention to avoiding accident sequences in which human errors or non-seismic equipment failures (unreliabilities, etc.) are important contributors. The guidance is nebulous and hard to understand in detail. I've given careful attention to this issue independently of my review at Dresden, and know lots about it. (In fact, I authored an NRC report on this subject, NUREG/CR-5679.) At Dresden, the analysis team seems to have relied on the internal-events IPE systems study for this aspect. This is acceptable.

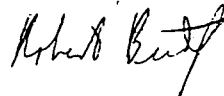
Rule-of-the-Box: The GIP has specific guidance, called the "rule-of-the-box", for equipment mounted on a common pad or otherwise physically co-located. My experience with other utilities who have implemented the GIP is that there is sometimes confusion as to how to interpret this rule. I am pleased to report that there appears to be no confusion among the Dresden analysis team on this important subject.

Review of the Equipment List by the Operating Department: It is vital, not merely a luxury, that the logic used to develop the IPEEE and A-46 equipment lists, and the actual lists themselves, be reviewed by knowledgeable members of the operating department. During my review, I learned that this had not yet happened, although it is planned. I need to emphasize that the entire process is flawed until and unless this review is accomplished. This will require the operating department to commit enough resources to accomplish the review. I shall look, at later stages of my review, for assurance that this important element of the process has been successfully accomplished.

That concludes my review comments. If there are any further questions, I am of course available to clarify anything that I have written here.

With warmest regards,

Sincerely yours,



Robert J. Budnitz
President

cc: L. Wright

ROBERT J. BUDNITZ

EDUCATION

Yale University, B.A. Physics, 1961
Harvard University, M.A. Physics, 1962
Harvard University, Ph.D., Physics, 1968

BACKGROUND

Dr. Robert J. Budnitz, the President and founder of Future Resources Associates, Inc., is a widely known leader in the field of reactor safety. Dr. Budnitz was trained as an experimental physicist, with degrees from Yale (undergraduate) and Harvard (Ph.D. in Physics). He was a member of the scientific staff of the Lawrence Berkeley Laboratory (University of California) from 1967 to 1978, including three years (1975 - 1978) as Associate Director of the laboratory and Director of its largest division, the Energy & Environment Division. From 1978 to 1980, Dr. Budnitz held a two-year appointment with the U. S. Nuclear Regulatory Commission in Washington, where he served first as Deputy Director and later as Director of Research. As Director of Research, he was responsible for more than \$200 million annually of government-sponsored research in all aspects of safety of nuclear reactors and related areas. Since 1980, Dr. Budnitz has been a consultant principally in the field of nuclear reactor safety, working as head of his own company.

Dr. Budnitz's recent work has emphasized reactor systems analysis, including probabilistic risk assessment (PRA) and the analysis of reactor response to earthquakes and other external initiators. His clientele has included both governmental and private organizations. He has served on numerous national and international advisory committees, and chaired several. Dr. Budnitz has done extensive work for the NRC, including both technical projects and policy-related advisory work.

While serving as NRC Director of Research in 1979-1980, Dr. Budnitz was principally responsible for re-directing NRC's large research program from its principal concentration on large-LOCA research to its current broader concentrations on severe-accident phenomena, its current emphasis on developing and using PRA methods, and its current strong programs studying operational and human-factors areas. At that time, Dr. Budnitz personally led the formulation of what became the "Severe Accident Research Program", and personally pushed through a large expansion of PRA-related research at a time when there was still resistance to that area among many NRC staff members.

Dr. Budnitz's Knowledge of Risk/Safety Assessment of Nuclear Facilities

Dr. Budnitz's personal research has in recent years been principally in the PRA area, where he is a widely-known expert. Although he has done major work in the area of external-initiators PRA methodology, and although it is a fair appraisal to state that his knowledge of external-initiators PRA methods and insights is the leading world-wide expertise in this subject, he has also done extensive work in internal-initiators PRA, working with both Level 1 and Level 2 PRAs. He has worked extensively as a reviewer. Some of his work has been as "high-level" peer reviewer while other work has been involved in the details of PRAs execution.

His recent work as a "high-level" reviewer includes membership on the "High-Level Review Committee" that DOE assembled in late 1989 to review the Savannah River K-Reactor PRA; and his chairmanship of a high-level Peer Review Group for the Seabrook PRA, reporting to the President of New Hampshire Yankee. He was also a member of NRC's Risk Assessment Review Group (the "Lewis Committee") in 1978. In addition, he was a member of the original informal NRC steering group that guided the NUREG-1150 project from its inception to the publication of the draft NUREG-1150 report in 1988, and has advised both NRC and the utilities about PRA methods, applications and benefits.

He is currently engaged in, or has recently completed systems Peer Review for the following seismic IPEEE review programs:

Arkansas Nuclear One	Entergy Operations
Callaway	Union Electric
Fort Calhoun	Omaha Public Power District
Grand Gulf	Entergy Operations
James A. Fitzpatrick	New York Power Authority
Waterford 3	Entergy Operations
Kozloduy 5 & 6	Bulgaria

His recent work on Level-1 PRA's includes an analysis of the earthquake-initiated risk of accidents during shutdown for both Grand Gulf (a BWR) and Surry (a PWR); membership on the "Expert Panel on Front-End Issues" for the NRC's NUREG-1150 project; membership on the Level-1 "Independent Review Board" for the N-Reactor PRA for Westinghouse Hanford Company; and principal reviewer for Oak Ridge National Laboratory of the High Flux Isotope Reactor PRA, as a member of ORNL's "Independent Review Committee for the Research Reactors Division". These recent projects are only the latest in a long list of peer-review activities that goes back to the 1970's.

His recent work on Level-2 PRAs includes chairmanship for EG&G of the "External Review Board" for the Advanced Test Reactor Level-2 PRA; membership on Savannah River, Laboratory's "Severe Accident Advisory Committee", helping SRL to understand complex core-damage phenomena to support their Level-2 PRA; membership on the Level-2 "Independent Review Board" for the N-Reactor PRA; principal consultant to the American Physical Society's "Study Group on Radionuclide Releases from Severe NPP Accidents", in 1985; and a variety of other activities.

Dr. Budnitz was one of the principal authors of NRC's 1984 PRA survey, NUREG-1050, the "PRA Reference Document". He was a member of the author team of the draft of NUREG-1150. In 1974 - 1980, as the NRC's representative to the OECD's Committee on the Safety of Nuclear Installations, he was among those principally responsible for the CSNI's endorsement of PRA methods as central to a realistic understanding of reactor safety. He has worked for many years to develop broader appreciation of PRA methods and insights among operating utility staffs. He has also served on the technical program committee for the last four international ANS/ENS meetings on PRA (Clearwater, 1993; Pittsburgh, 1989; Zurich, 1987; and San Francisco, 1985), and as a consultant on PRA to both the International Atomic Energy Agency and the OECD Nuclear Energy Agency.

Dr. Budnitz has also served on numerous advisory committees and Panels. He has served as chairman of several of them. The list is long. A partial list of his advisory-panel assignments is as follows:

- National Academy of Sciences, Committee on Remediation of Buried and Tank Wastes, 1992 - present (Chairman)
- National Academy of Sciences, Panel on Options for Disposition of Weapons-Related Plutonium, under Committee on International Security and Arms Control, 1992 - present (Member)
- Safety Review Group for the Nuclear Safety Account for Upgrading Soviet-Designed Reactors, European Bank for Reconstruction and Development, 1993 - present (U. S. Representative)
- Senior Seismic Hazard Analysis Committee, co-sponsored by U. S. Department of Energy, U. S. Nuclear Regulatory Commission, and Electric Power Research Institute, 1993 - present, (Chairman)
- National Academy of Sciences, Committee on Technical Bases for Yucca Mountain Standards, 1993 - present (Member)
- U.S. Environmental Protection Agency, National Advisory Council on Environmental Policy and Technology, Advisory Committee on WIPP, the Waste Isolation Pilot Plant, 1993 - present (Member)
- Advisory Group on treatment of Hazards in Probabilistic Safety Assessment, International Atomic Energy Agency, Vienna, 1986 - present (Member)
- DOE Senior External Events Review Group, 1989 - 1992 (Chairman)
- NRC Expert Panel of Seismic Design Margins, 1984 - 1988 (Chairman)
- Expert Panel on Plant Aging, Battelle Pacific Northwest Laboratory for U. S. Nuclear Regulatory Commission, 1987 (Chairman)
- NRC Peer Review Group, Maine Yankee Seismic Margin Study, 1986 - 1987 (Chairman)
- Battelle Memorial Institute, Office of Crystalline Repository Development, Peer Review Group, 1983- 1986 (Chairman)
- NRC Advanced Reactor Peer Review Group, 1987 - 1988 (Chairman)
- Sandia National Laboratories, DOE Waste Isolation Pilot Project, Performance Assessment Peer Review Group, 1987 ongoing (Member)
- Electric Power Research Institute, Chernobyl Advisory Panel, 1986 - 1987 (Member)

- National Academy of Sciences, Energy Engineering Board, 1983 - 1986 (Member)
 - Idaho National Engineering Laboratory/ EG&G Idaho, Review Group on Nuclear Research, 1987 - 1990- (Member)
 - Brookhaven National Laboratory, Advisory Panel on Seismic Component Fragilities, 1986 - 1990 (Member)
-
- U. S. Department of Energy, Senior Committee on Environmental, Safety, and Economic Aspects of Fusion Energy, 1985 - 1987 (Member)
 - GA Technologies, U. S. Army Chemical Munitions Disposal Risk Assessment Review Panel, 1987 - 1988 (Member)

Appendix I

SEISMIC QUALIFICATION UTILITY GROUP (SQUG) OUTLIER RESOLUTION TRACKING SHEETS EQUIPMENT, TANKS, HEAT EXCHANGERS, CABLE AND CONDUIT RACEWAYS

INTRODUCTION

The attached Outlier Tracking Sheets list **all** of the USI A-46 Outliers for Equipment, Heat Exchanger, and Cable Trays. All unresolved outliers have been assigned Nuclear Tracking System Numbers (NTS), with proposed resolutions and estimated completion dates. Outliers that have been resolved are indicated with their completion dates on the attached excel spreadsheet. A brief summary of the resolved outliers is attached to the excel spreadsheet.

APPENDIX I

USI A-46 OUTLIER RESOLUTION TRACKING SHEET

(Equipment, Raceways, Tanks, Heat Exchangers)

6/25/96

RESOLUTION #	OUTLIER TYPE	SQUG EQUIP	DESCRIPTION	PROPOSED RESOLUTION	TRACKING NUMBERS	COMPLETION
(1) Nearby Gas Bottles-Interaction						
	Procedural Control	Units 2 & 3	General	General	Revise DHP 0220-02 - Gas Bottle Restraints	NTS#2371048700201S1001 See Note 1
	Nearby Gas Bottles-Interaction	Unit 2				
	3 Nitrogen	D02-0305----H20	CRD Hydraulic Control Unit	Install lower rack and chain	NTS#2371048700201S1002	See Note 1
	1 Hydrogen on skid 2-2402A	D02-7828-7---M05	480V AC / MCC 28-7	Install missing lower bar for H2 gas bottle	NTS#2371048700201S1002	See Note 1
	1 Oxygen on skid 2-2403A	D02-7828-7---M05	480V AC / MCC 28-7	Re-install bottle into rack/secure both bars	NTS#2371048700201S1002	See Note 1
	1 Helium	D02-7828-7---M05	480V AC / MCC 28-7	Install permanent rack and chains	NTS#2371048700201S1002	See Note 1
	6 Halon, 1 Carbon Monoxide	D02-7829-2---M05	480V AC / MCC 29-2	Install lower chain support and chain	NTS#2371048700201S1002	See Note 1
	18 Compressed Air	D02-83250---M05	250V DC / TB MCC #2	Install lower rack and chains	NTS#2371048700201S1002	See Note 1
	(same bottles as above)	D02-9802-A---P06	24/48V DC / Dist Panel #2A	Install lower rack and chains	NTS#2371048700201S1002	See Note 1
	Nearby Gas Bottles-Interaction	Unit 3				
	1 Custom Mixture	D03-7838-1-1---P06	Distribution Panel 38-1-1	Install lower chain support and chain	NTS#2371048700201S1003	See Note 1
	3 Nitrogen	D03-0305-----H20	CRD Hydraulic Control Unit	Install lower rack and chain	NTS#2371048700201S1003	See Note 1
(2) Overhead Lighting - Interaction						
	Overhead Lighting - Interaction	Unit 2				
	S-Hooks Open - Overhead Lighting	D02-7829-2---M05	480V AC / MCC 28-7	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-7828-3---M05	480V AC / MCC 28-3	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-7829-4---M05	480V AC / MCC 29-4	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-2252-0084-P05	Instrument Rack	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-2202-0073AP05	Instrument Rack	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-2202-0073BP05	Instrument Rack	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-6723-----S35	4160V AC / Switchgear 23	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D02-6724-----S35	4160V AC / Switchgear 24	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	Overhead Lighting - Interaction	Unit 3				
	S-Hooks Open - Overhead Lighting	D03-2203-0006-PO	Instrument Rack	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-7838-2---M05	480V AC / MCC 38-2	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-7838-3---M05	480V AC / MCC 38-3	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-8303A1-1-P06	125V DC / TB Main Bus 3A	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-8303A1-2-P06	125V DC / TB Main Bus 3A-1	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-8303B1---P06	125V DC / TB Res Bus 3B-1	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-9802-A---P06	24/48V DC / Dist Panel 3A	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-9802-B---P06	24/48V DC / Dist Panel 3B	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-83125-3---P06	125V DC / TB Battery Bus 3	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-7338-----S35	480V AC / Switchgear 38	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-7339-----S35	480V AC / Switchgear 39	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-2203-0073AP05	Instrument Rack	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-2203-0073BP05	Instrument Rack	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)
	S-Hooks Open - Overhead Lighting	D03-5772-0102-D05	DG / Normal Ventilation Duct	Closed S-Hooks on lighting	NTS# - None	5/96 (Complete)

Note 1: Outlier resolution to be completed within two (2) refueling outages per unit following receipt of NRC SER on USI A-46 Submittal.

APPENDIX I

USI A-46 OUTLIER RESOLUTION TRACKING SHEET

(Equipment, Raceways, Tanks, Heat Exchangers)

6/25/96

RESOLUTION #	OUTLIER TYPE	SQUG EQUIP	DESCRIPTION	PROPOSED RESOLUTION	TRACKING NUMBERS	COMPLETION
(3)						
	Unrestrained Lights - Interaction	Unit 2 & 3				
	Procedural Control	General	General	Revise Procedure DES 4153-02	NTS# - None	5/96 (Complete)
	Unrestrained Lights - Interaction	Unit 2				
	Light # 251C	D02-7829-8—M05	480V AC / MCC 29-8	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Light # 209	D02-5203—P30	DG Fuel Oil Transfer Pump	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Light #293	D02-2202-0008-P06	Instrument Rack	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Light #299	D02-7328—S35	480V AC / Switchgear 28	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Light #299	D02-7329—S35	480V AC / Switchgear 29	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Light #299	D02-7229—T10	480V AC / Transformer	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Light #220	D02-0902-0041-P06	Control Panel	Restrain lights in their tray	NTS#2371048700201S1004	See Note 1
	Unrestrained Lights - Interaction	Unit 3				
	Light #329	D03-8303B1—P06	125V DC / TB Res Bus 3B-1	Restrain lights in their tray	NTS#2371048700201S1005	See Note 1
	Light #329	D03-9802-A—P06	24/48V DC / Dist Panel 3A	Restrain lights in their tray	NTS#2371048700201S1005	See Note 1
	Light #329	D03-9802-B—P06	24/48V DC / Dist Panel 3B	Restrain lights in their tray	NTS#2371048700201S1005	See Note 1
	Light #313	D03-5203—P30	DG Fuel Oil Transfer Pump	Restrain lights in their tray	NTS#2371048700201S1005	See Note 1
	Light #329	D03-9802-3BNEGB05	Battery Charger	Restrain lights in their tray	NTS#2371048700201S1005	See Note 1
	Light #329	D03-9802-3BPOSB05	Battery Charger	Restrain lights in their tray	NTS#2371048700201S1005	See Note 1
(4)						
	Unrestrained Trolley - Interaction	Unit 2				
	Trolley Hoist is Unrestrained	D02-7329—S35	480V AC / Switchgear 29	Secure hoist to keep from moving	NTS#2371048700201S1006	See Note 1
	Trolley Hoist is Unrestrained	D02-7328—S35	480V AC / Switchgear 28	Resolved: Verified no essential relays	NTS# - None	4/96 (Complete)
	Unrestrained Trolley - Interaction	Unit 3				
	Trolley Hoist is Unrestrained	D03-7338—S35	480V AC / Switchgear 38	Resolved: Verified no essential relays	NTS# - None	4/96 (Complete)
	Trolley Hoist is Unrestrained	D03-7339—S35	480V AC / Switchgear 39	Resolved: Verified no essential relays	NTS# - None	4/96 (Complete)
(5)						
	Non-permanent Equip - Interaction	Unit 2 & 3				
	Procedural Control	General	General	Develop or Revise Housekeeping Procedures	NTS#2371048700201S1001	See Note 1
	Non-permanent Equip - Interaction	Unit 2				
	Nearby Ops Lube Flammable Cabinet	D02-7829-2—M05	480V AC / MCC 29-2	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby Spare Breaker	D02-6723—S35	4160V AC / Switchgear 23	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby 4KV Safety Equipment Locker	D02-67231—S35	4160V AC / Switchgear 23-1	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby Spare Breaker	D02-6724—S35	4160V AC / Switchgear 24	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby 4KV Safety Equipment Locker	D02-8302A—M05	250V DC / MCC Bus 2A	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby Spare Breakers	D02-67241—S35	4160V AC / Switchgear 24-1	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Non-permanent Equip - Interaction	Unit 3				
	Nearby Crank Handle	D03-7338—S35	480V AC / Switchgear 38	Relocated under E12-3-95-220	NTS# - None	9/95(Complete)
	Nearby Crank Handle	D03-7339—S35	480V AC / Switchgear 39	Relocated under E12-3-95-221	NTS# - None	9/95(Complete)
	Nearby Gear Box Locker	D03-7339—S35	480V AC / Switchgear 39	Relocated under E12-3-95-220	NTS# - None	9/95 (Complete)

Note 1: Outlier resolution to be completed within two (2) refueling outages per unit following receipt of NRC SER on USI A-46 Submittal.

APPENDIX I

6/25/96

USI A-46 OUTLIER RESOLUTION TRACKING SHEET

(Equipment, Raceways, Tanks, Heat Exchangers)

RESOLUTION #	OUTLIER TYPE	SQUG EQUIP	DESCRIPTION	PROPOSED RESOLUTION	TRACKING NUMBERS	COMPLETION
	Nearby 4KV Safety Equipment Locker	D03-6734-----S35	4160V AC / Switchgear 34	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby Spare Breakers	D03-6734-----S35	4160V AC / Switchgear 34	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby Tool-Box	D03-0903-0046-P06	Control Panel 903-46	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby Spare Breaker	D03-67331-----S35	4160V AC / Switchgear 33-1	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
	Nearby 4KV Safety Equipment Locker	D03-67341-----S35	4160V AC / Switchgear 34-1	Relocate away from SQUG equipment	NTS# - None	5/96 (Complete)
(6)	Permananet Equip - Interaction	Unit 2/3				
	Tank Sight Glass Interaction Issue	D00-5202-----T05	DG Fuel Oil Day Tank	Evaluate Sight Glass Inertial Strength	NTS#2371048700201S1007	See Note 1
	Potential Impact with Column	D00-NGC	Contl Panel / Neutral Ground	Install Spacers or Bolt to Column	NTS#2371048700201S1007	See Note 1
	Permananet Equip - Interaction	Unit 2				
	Potential Impact with Cable Tray Support	D02-0902-0015-P06	Control Panel 902-5	Restrain Cross Members / Crimp Light Hooks	NTS#2371048700201S1007	See Note 1
	Potential Impact with Cable Tray Support	D02-0902-0017-P06	Control Panel 902-17	Restrain Cross Members / Crimp Light Hooks	NTS#2371048700201S1007	See Note 1
	Potential Impact with Cable Tray Support	D02-0902-0019-P06	Control Panel 902-19	Restrain Cross Members / Crimp Light Hooks	NTS#2371048700201S1007	See Note 1
	Potential Impact with Cable Tray Support	D02-0902-0036-P06	Control Panel 902-36	Restrain Cross Members / Crimp Light Hooks	NTS#2371048700201S1007	See Note 1
	Potential Impact with Cable Tray Support	D02-0902-0004-P06	Control Panel 902-4	Restrain Cross Members / Crimp Light Hooks	NTS#2371048700201S1007	See Note 1
	Potential Impact with Cable Tray	D02-8302B-1---P06	125V DC / TB Res Bus 2B-1	Resolved: Verified no essential relays	NTS# - None	4/96 (Complete)
	Potential Impact with Cable Tray	D02-83125-1 ---P06	125V DC / TB Res Bus	Resolved: Verified no essential relays	NTS# - None	4/96 (Complete)
	Potential Impact with Concrete (1/4 " Gap)	D02-0902-0028-P06	Control Panel 902-28	Shim the gap to close it	NTS#2371048700201S1007	See Note 1
	Permananet Equip - Interaction	Unit 3				
	Potential Impact with Cable Tray Support	D03-0903-0015-P06	Control Panel 903-15	Restrain Cross Members / Crimp Light Hooks	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Cable Tray Support	D03-0903-0017-P06	Control Panel 903-17	Restrain Cross Members / Crimp Light Hooks	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Cable Tray Support	D03-0903-0019-P06	Control Panel 903-19	Restrain Cross Members / Crimp Light Hooks	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Cable Tray Support	D03-0903-0036-P06	Control Panel 903-36	Restrain Cross Members / Crimp Light Hooks	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Cable Tray Support	D03-0903-0004-P06	Control Panel 903-4	Restrain Cross Members / Crimp Light Hooks	NTS# 2371048700201S1008	See Note 1
	NSR Pumpback pipe touches valve yoke	D03-0302-0157AV05	CRD East Bank SDV Drain	Laterally Support NSR Pipe	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Conduit Pull Box	D03-0903-0046-P06	Control Panel 903-46	Insert Neoprene between panel and pull-box	NTS# 2371048700201S1008	See Note 1
	DG Stack adjacent to panel	D03-8303A1-2--P06	125V DC / Main Bus 3A-1	Evaluate seismic integrity of exhaust stack	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Concrete (1/4 " Gap)	D03-0903-0033-P06	Control Panel 903-33	Shim the gap to close it	NTS# 2371048700201S1008	See Note 1
	Potential Impact with Grating	D03-1501-0032BV20	LPCI Header Crosstie Valve	Determine Piping Displacement (IE79-14B)	NTS# 2371048700201S1008	See Note 1
(7)	Spill Hazard - Interaction	Unit 2				
	Rm Coolers rod hung (flexible)	D02-5746-A---H15	LPCI Rm Coolers	Laterally restrain or Evaluate SW loss	NTS# 2371048700201S1010	See Note 1
	Rm Coolers rod hung (flexible)	D02-5746-B---H15	LPCI Rm Coolers	Laterally restrain or Evaluate SW loss	NTS# 2371048700201S1010	See Note 1
	Nearby PCB Tank Sight Glass	D02-67231-----S35	4160V AC / Switchgear23-1	Close Sight Glass Valves	NTS# - None	6/96 (Complete)
	Spill Hazard - Interaction	Unit 3				
	Rm Coolers rod hung (flexible)	D03-5746-A---H15	LPCI Rm Coolers	Laterally restrain or Evaluate SW loss	NTS# 2371048700201S1011	See Note 1
	Nearby PCB Tank Sight Glass	D03-67341-----S35	4160V AC / Switchgear 34-1	Close Sight Glass Valves	NTS# - None	6/96 (Complete)
	Rm Coolers rod hung (flexible)	D03-5746-A---H15	LPCI Rm Coolers	Laterally restrain or Evaluate SW loss	NTS# 2371048700201S1011	See Note 1
	Overhead Fire Piping	D03-2203-0073A	Instrument Rack	Evaluate overhead fire piping	NTS# 2371048700201S1011	See Note 1
	Overhead Fire Piping	D03-2203-0073B	Instrument Rack	Evaluate overhead fire piping	NTS# 2371048700201S1011	See Note 1

Note 1: Outlier resolution to be completed within two (2) refueling outages per unit following receipt of NRC SER on USI A-46 Submittal.

APPENDIX I

USI A-46 OUTLIER RESOLUTION TRACKING SHEET

(Equipment, Raceways, Tanks, Heat Exchangers)

6/25/96

RESOLUTION #	OUTLIER TYPE	SQUG EQUIP	DESCRIPTION	PROPOSED RESOLUTION	TRACKING NUMBERS	COMPLETION
(8) Unbolted Pnl's - Interaction						
	Unit 2/3					
	Adjacent Panels not Bolted Together	D00-2223-0033-P06	Control Panel 2223-33	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
	Adjacent Panels not Bolted Together	D00-2223-0041-P06	Control Panel / DG Excitation	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
Unbolted Pnl's - Interaction						
	Unit 2					
	Adjacent Panels not Bolted Together	D02-0902-0033-P06	Control Panel 902-33	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
	Adjacent Panels not Bolted Together	D02-0902-0039-P06	Control Panel 902-39	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
	Adjacent Panels not Bolted Together	D02-0902-0046-P06	Control Panel 902-46	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
	Adjacent Panels not Bolted Together	D02-0902-0047-P06	Control Panel 902-47	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
	Adjacent Panels not Bolted Together	D02-2202-0070AP05	Control Panel 2202-70A	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
	Adjacent Panels not Bolted Together	D02-2202-0070BP05	Control Panel 2202-70B	Bolt adjacent panels together	NTS# 2371048700201S1012	See Note 1
Unbolted Pnl's - Interaction						
	Unit 3					
	Adjacent Panels not Bolted Together	D03-2203-0070AP05	Instrument Racks	Bolt adjacent panels together	NTS# 2371048700201S1013	See Note 1
	Adjacent Panels not Bolted Together	D03-2203-0070BP05	Instrument Racks	Bolt adjacent panels together	NTS# 2371048700201S1013	See Note 1
	Adjacent Panels not Bolted Together	D03-0903-0032-P06	Control Panel 903-32	Bolt adjacent panels together	NTS# 2371048700201S1013	See Note 1
	Adjacent Panels not Bolted Together	D03-0903-0033-P06	Control Panel 903-33	Bolt adjacent panels together	NTS# 2371048700201S1013	See Note 1
	Adjacent Panels not Bolted Together	D03-0903-0047-P06	Control Panel 903-47	Bolt adjacent panels together	NTS# 2371048700201S1013	See Note 1
(9) Anchorage Issues						
	Unit 2/3					
	Battery Charger Unanchored	D00-83250-0-B05	250V DC / Battery Charger #2/3	Install Anchorage (ER9502668)	NTS# 2371048700201S1014	See Note 1
	Tank Supported by Ring Foundation	D00-3303A-T05	Condensate Storage Tank	Evaluate Ring Foundation	NTS# 2371048700201S1014	See Note 1
Anchorage Issues						
	Unit 2					
	Battery Charger Unanchored	D02-83250-2-B05	250V DC / Battery Charger #2	Install Anchorage	NTS# 2371048700201S1014	See Note 1
	Existing Steel Inadequate	D02-1503-A-H15	LPCI Heat Exchanger	Install Anchorage (E12-2-95-242)	NTS# - None	4/96 (Complete)
	Existing Steel Inadequate	D02-1503-B-H15	LPCI Heat Exchanger	Install Anchorage (E12-2-95-243)	NTS# - None	4/96 (Complete)
	Nozzles Loads Info Not In ANCHOR Eval	D02-1502-A-P30	LPCI Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1014	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D02-1502-B-P30	LPCI Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1014	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D02-1502-C-P30	LPCI Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1014	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D02-1502-D-P30	LPCI Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1014	See Note 1
Anchorage Issues						
	Unit 3					
	Battery Charger Unanchored	D03-8300-3-B05	125V DC / Battery Charger # 3	Install Anchorage (ER9502668)	NTS# 2371048700201S1015	See Note 1
	MCC 35-1 inadequately anchored	D03-7839-2-M05	480V AC / MCC 39-2	Install Anchorage	NTS# 2371048700201S1015	See Note 1
	Existing Steel Inadequate	D03-1503-A-H15	LPCI Heat Exchanger	Install Anchorage (E12-3-95-258)	NTS# 2371048700201S1015	See Note 1
	Existing Steel Inadequate	D03-1503-B-H15	LPCI Heat Exchanger	Install Anchorage (E12-3-95-259)	NTS# 2371048700201S1015	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D03-1501-0044AP30	CCSW Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1015	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D03-1501-0044BP30	CCSW Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1015	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D03-1501-0044CP30	CCSW Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1015	See Note 1
	Nozzles Loads Info Not In ANCHOR Eval	D03-1501-0044DP30	CCSW Pump	Obtain Nozzles Loads For Inclusion	NTS# 2371048700201S1015	See Note 1

Note 1: Outlier resolution to be completed within two (2) refueling outages per unit following receipt of NRC SER on USI A-46 Submittal.

APPENDIX I

USI A-46 OUTLIER RESOLUTION TRACKING SHEET

(Equipment, Raceways, Tanks, Heat Exchangers)

6/25/96

RESOLUTION #	OUTLIER TYPE	SQUG EQUIP	DESCRIPTION	PROPOSED RESOLUTION	TRACKING NUMBERS	COMPLETION
(10) Anchorage Issues (Not per GIP)						
	Friction Clips Unacceptable per GIP	Unit 2				
	Friction Clips Unacceptable per GIP	D02-2252-0010-P06	Cntrl Panel / DG Met/Relaying	Replace clips or provide more anchorage	NTS# 2371048700201S1014	See Note 1
	Friction Clips Unacceptable per GIP	D02-2252-0021-P06	Cntrl Panel / DG Excitation	Replace clips or provide more anchorage	NTS# 2371048700201S1014	See Note 1
	Friction Clips Unacceptable per GIP	D02-2252-0021-P06	Cntrl Panel / DG Excitation	Adjacent NGC: Replace Clips	NTS# 2371048700201S1014	See Note 1
	Bolt Anchor not Covered by GIP	D02-5700-0030AH15	CCSW Pump Cooler	Resolved: Per Table 8.2, ID#46	NTS# - None	5/96 (Complete)
	Bolt Anchor not Covered by GIP	D02-5700-0030BH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
	Bolt Anchor not Covered by GIP	D02-5700-0030CH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
	Bolt Anchor not Covered by GIP	D02-5700-0030DH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
	Anchorage Issues	Unit 3				
	Friction Clips Unacceptable per GIP	D03-2252-0021-P06	Cntrl Panel / DG Excitation	Adjacent NGC: ReplaceClips	NTS# 2371048700201S1015	See Note 1
	Bolt Anchor not Covered by GIP	D03-5700-0030AH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
	Bolt Anchor not Covered by GIP	D03-5700-0030BH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
	Bolt Anchor not Covered by GIP	D03-5700-0030CH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
	Bolt Anchor not Covered by GIP	D03-5700-0030DH15	CCSW Pump Cooler	Resolved: Capacity exceeds demand	NTS# - None	5/96 (Complete)
(11) Capacity Issues						
	Seismic Demand Exceeds Capacity	Unit 2				
	Floor Spectra Too High	D02-8302A---M05	250V Dc / MCC Bus 2A	Develop Median Floor Spectra	NTS# 2371048700201S1016	See Note 1
	Floor Spectra Too High	D02-8302B---M05	250V DC / MCC Bus 2B	Develop Median Floor Spectra	NTS# 2371048700201S1016	See Note 1
	Floor Spectra Too High	D02-83125---P06	125V DC / RB Dist Panel 2	Develop Median Floor Spectra	NTS# 2371048700201S1016	See Note 1
	3G Analysis shows Yoke Overstress	D02-2301-0005-V20	HPCI Turbine Stm Line Vlv	Evaluate Actual Demand Accelerations	NTS# 2371048700201S1016	See Note 1
	No Seismic Capacity Data Available	D02-0305---H20	Hydraulic Control Unit	Resolved: Per Table 8.2, ID #1	NTS# - None	5/96 (Complete)
	Capacity Issues	Unit 3				
	Seismic Demand Exceeds Capacity	D03-8303A---M05	250V DC / MCC Bus 3A	Develop Median Floor Spectra	NTS# 2371048700201S1017	See Note 1
	Seismic Demand Exceeds Capacity	D03-8303B---M05	250V DC / MCC Bus 3B	Develop Median Floor Spectra	NTS# 2371048700201S1017	See Note 1
	Seismic Demand Exceeds Capacity	D03-83125---P06	125V DC / RB Dist Panel 3	Develop Median Floor Spectra	NTS# 2371048700201S1017	See Note 1
	3G Analysis shows Yoke Overstress	D03-2301-0005-V20	HPCI Turbine Stm Line Vlv	Evaluate Actual Demand Accelerations	NTS# 2371048700201S1017	See Note 1
	3G Analysis shows Yoke Overstress	D03-2301-0008-V20	HPCI Pump Injection Valve	Evaluate Actual Demand Accelerations	NTS# 2371048700201S1017	See Note 1
	No Seismic Capacity Data Available	D03-0305---H20	Hydraulic Control Unit	Resolved: Per Table 8.2, ID #1	NTS# - None	5/96 (Complete)
(12) Battery Spacers						
	Missing/ Inadequate Batteries Spacers	Unit 2				
	Missing/ Inadequate Batteries Spacers	D02-8300-BC---B04	125V DC / Battery 2, Feed to BB 2	Secure Styrofoam Spacers	NTS# 2371048700201S1018	See Note 1
	Missing/ Inadequate Batteries Spacers	D02-83250---B04	250V DC / Battery 2	Secure Styrofoam Spacers	NTS# 2371048700201S1018	See Note 1
	Missing/ Inadequate Batteries Spacers	D02-9802-A---B04	24/48V DC / Battery 2A	Secure Styrofoam Spacers	NTS# 2371048700201S1018	See Note 1
	Missing/ Inadequate Batteries Spacers	D02-9802-B---B04	24/48V DC / Battery 2B	Secure Styrofoam Spacers	NTS# 2371048700201S1018	See Note 1
	Battery Spacers	Unit 3				
	Missing/ Inadequate Batteries Spacers	D03-8300-BC---B04	125V DC / Battery 3, Feed to BB 3	Secure Styrofoam Spacers	NTS# 2371048700201S1019	See Note 1
	Missing/ Inadequate Batteries Spacers	D03-83250---B04	250V DC / Battery 3	Secure Styrofoam Spacers	NTS# 2371048700201S1019	See Note 1
	Missing/ Inadequate Batteries Spacers	D03-9802-A---B04	24/48V DC / Battery 3A	Secure Styrofoam Spacers	NTS# 2371048700201S1019	See Note 1

Note 1: Outlier resolution to be completed within two (2) refueling outages per unit following receipt of NRC SER on USI A-46 Submittal.

APPENDIX I

6/25/96

USI A-46 OUTLIER RESOLUTION TRACKING SHEET

(Equipment, Raceways, Tanks, Heat Exchangers)

RESOLUTION #	Missing/ Inadequate Batteries Spacers	D03-9802-B—B04	24/48V DC / Battery 3B	Secure Styrofoam Spacers	NTS# 2371048700201S1019	See Note 1
	OUTLIER TYPE	SQUG EQUIP	DESCRIPTION	PROPOSED RESOLUTION	TRACKING NUMBERS	COMPLETION
(13)	Batteries > 10 years	Unit 2				
	Batteries > 10 years	D02-9802-A—B04	24/28V DC / Battery 2A	Replace Batteries (M12-2-95-003)	NTS# 2371048700201S1020	See Note 1
	Batteries > 10 years	D02-9802-B—B04	24/48V DC / Battery 2B	Replace Batteries (M12-2-95-003)	NTS# 2371048700201S1020	See Note 1
	Batteries > 10 years	Unit 3				
	Batteries > 10 years	D03-9802-A—B04	24/48V DC / Battery 3A	Replace Batteries (M12-3-95-003)	NTS# 2371048700201S1021	See Note 1
	Batteries > 10 years	D03-9802-B—B04	24/48V DC / Battery 3B	Replace Batteries (M12-3-95-003)	NTS# 2371048700201S1021	See Note 1
(14)	Miscellaneous	Unit 2				
	Vlv Condulet Open-Exposed Wire	D02-0302-0019A-V27	CRD /Backup Scram Solenoid	Condulet cover installed (AR940038586)	NTS# - None	9/95 (Complete)
	One Bolt is Missing	D02-4798-A—A10	Instrument Air Trgt Rock Accum	Bolt Missing on Accum (AR#960032866)	NTS# 2371048700201S1023	See Note 1
	Overhead light - restraint inadequate	D02-2202-0006-P06	Instrument Rack	Restrain light properly (AR# 960032621))	NTS# -None	5/96 (Complete)
	One Anchor Projected out and Loose	D02-0902-0028-P06	Panel	Resolved: Per Table 8.2, ID# 25 (Anchor Fixed)	NTS# -None	3/96 (Complete)
	Miscellaneous	Unit 3				
	Associated Duct Support Rod is Bent	D03-5772-0102-D05	DG Normal Ventilation Duct	Repair Rod or Replace (AR# 960032601)	NTS# 2371048700201S1024	See Note 1
	One Bolt Loose	D03-0903-0052--P05	Control Panel	Bolt loose (AR#960036290)	NTS# 2371048700201S1029	See Note 1
	Overhead Unit Heater 2-5751F Missing Rod	D03-2203-0073A-P05	Instrument Rack	Replace Heater Rod (AR# 960032599)	NTS# 2371048700201S1025	See Note 1
	Overhead Unit Heater 2-5751F Missing Rod	D03-2203-0073B-P05	Instrument Rack	Replace Heater Rod (AR# 960032599)	NTS# 2371048700201S1025	See Note 1
(15)	Cable Trays/Conduit Raceways	Unit 2 & 3				
	LAR 001 (Various Locations)	Rod Hung Trapeze	Loads Exceed for Rod Fatigue	Resolved: Per Table 8.2, ID54	NTS# - None	5/96 (Complete)
	LAR 004 (Various Locations)	Rod Hung Trapeze	Loads Exceed for Vertical Capacity	Resolved: Per Table 8.2, ID55	NTS# - None	5/96 (Complete)
	LAR 005 (Various Locations)	Stee; Angle Support	Loads Exceed for Vertical Capacity	Resolved: Per Table 8.2, ID56	NTS# - None	5/96 (Complete)
	LAR 006 (Various Locations)	Rod Hung Trapeze	Loads Exceed for Rod Fatigue	Resolved: Per Table 8.2, ID57	NTS# - None	5/96 (Complete)
	LAR 007 (Various Locations)	Rod Hung Trapeze	Loads Exceed for Rod Fatigue	Use Blume Report Methodology to Qualify	NTS# 2371048700201S1026	See Note 1
	LAR 008 (Various Locations)	Rod Hung Trapeze	Loads Exceed for Rod and Vertical	Resolved: Per Table 8.2, ID59	NTS# - None	5/96 (Complete)
	LAR 009 (Various Locations)	Rod Hung Trapeze	Limiting Seismic Capacity	Determine weight of conduit. Perform Caparison	NTS# 2371048700201S1026	See Note 1
	RACE 010 (DG Room, Elev 517')	Rod Hung Hangers	Open Issues to be Resolved	Resolve issues / Complete Analysis	NTS# 2371048700201S1026	See Note 1
	RACE 009 (Trays above 2A & B Circ Pump	Trays	Corrosion Concerns	Resolve Corrosion Concerns	NTS# 2371048700201S1026	See Note 1
	RACE 016 (Inclusion Rule Reviews)	Various	Conduit Clamps / Corrosion	Replace Clamps / Resolve Corrosion Concerns	NTS# 2371048700201S1026	See Note 1

Note 1: Outlier resolution to be completed within two (2) refueling outages per unit following receipt of NRC SER on USI A-46 Submittal.

RESOLVED OUTLIERS

Under Resolution #2 all 22 outliers have been resolved:

Overhead fluorescent lights are hung by S-Hooks. The S-Hook ends have been crimped closed by Electrical Maintenance under the Minor Maintenance Program. Completed May, 1996.

Under Resolution #3 the following procedure has been revised: Procedure DES 4153-02 has been revised to include a step to inspect for missing hardware during the Emergency Light inspections. Procedure Revision 9 Completed May, 1996.

Under Resolution #4 the following 3 outliers have been resolved:

1. D02-7328-----S35 2. D03-7338-----S35 3. D03-7339-----S35

No essential relays located in SWGR 28, 38, and 39 per the Essential Relay List, Appendix B to Relay Evaluation Report for USI A-46 dated June, 1996. [21] Completed May, 1996.

Under Resolution #5 all 14 outliers have been resolved: Miscellaneous equipment (lockers, spare breakers, etc.) in the vicinity of Safe Shutdown Equipment has been relocated away from the Safe Shutdown Equipment by Operations and Electrical Maintenance. Completed May, 1996. (Note: The procedural change is not an outlier but is listed as a general activity to be complete and is scheduled under NTS).

Under Resolution #6 the following 2 outliers have been resolved:

1. D02-8302B-1-----P06 2. D02-83125-1-----P06

No essential relays located in 125V DC / TB Res Bus 2B-1 and 125 V DC / TB Res Bus per Essential Relay List, Appendix B to Relay Evaluation Report for USI A-46 dated June, 1996. [21] Completed, May, 1996.

Under Resolution #7 the following 2 outliers have been resolved:

1. D02-67231-----S35 2. D03-67341-----S35

The PCB Tanks are empty. Operations closed the sight glass valves. Completed June, 1996.

Under Resolution #9 the following 2 outliers have been resolved:

1. D02-1503-A-----H15 2. D02-1503-B-----H15

Inadequate anchorage on Unit 2 LPCI Heat Exchangers. Anchorage installed on Unit 2 per Exempt Change E12-2-95-242 and E12-2-95-243. Completed April, 1996.

Under Resolution #10 the following 8 outliers have been resolved:

1. D02-5700--0030AH15 2. D02-5700-0030BH15 3. D02-5700-0030CH15
4. D02-5700-0030DH15 5. D03-5700-0030AH15 6. D03-5700-0030BH15
7. D03-5700-0030CH15 8. D03-5700-0030DH15

CCSW Pump Coolers have a bolt type that is unacceptable per the GIP. The outlier was resolved by Stevenson & Associates per Section 8.0, Table 8.2 ID# 46. Completed May, 1996.

Under Resolution #11 the following 2 outliers have been resolved:

1. D02-0305-----H20
2. D03-0305-----H20

No seismic capacity based on earthquake experience or testing is available for the Hydraulic Control Units. The outlier was resolved by Stevenson & Associates per Section 8.0, Table 8.2, ID#A1. Completed May, 1996.

Under Resolution #14 the following 3 outliers have been resolved:

1. D02-0302-0019A-V27: The Condulet Cover has been installed. AR94038586 completed September, 1995 (Refuel PM Surv Rebuild Scram Sol Valve). Completed September, 1995.

2. D02-2202-0006-P06: The overhead fluorescent light was supported by only one chain on each end. The light has been removed from area and will not be re-installed. AR960032621 Completed May , 1996.

- 3, D03-0902-0028 was found projected out and loose on the preliminary walkdowns. The final walkdown in March, 1996 found the anchor to be fixed. Outlier is resolved based on this fact, per Section 8.0 Table 8.2, ID# A25. Completed March, 1996.

Under Resolution #15 the following 5 outliers have been resolved:

1. LAR 001
2. LAR 004
3. LAR 005
4. LAR 006
5. LAR 008

Cable Raceways have loads that exceed allowables. Outliers were resolved by Stevenson & Associates per Section 8.0, Table 8.2 ID# A54, A55, A56, A57, A58