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Iowa Electric Light and Power Company
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LARRY D. ROOT
ASSISTANT VICE PRESIDENT
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Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

This letter transmits the response of Iowa Electric Light and Power Company (IE) to the NRC staff's Safety Evaluation Report (SER) on environmental qualification of safety-related electrical equipment at the Duane Arnold Energy Center. The NRC SER was transmitted to IE by letter dated June 3, 1981 from Mr. Ippolito to Mr. Duane Arnold. This submittal provides the information requested in sections 3 and 4 of the SER and supports our previous conclusions concerning the continued safe operation of the Duane Arnold Energy Center.

As stated in the introduction to the enclosed response, it provides a

> . . . response to the SER in the form of additional information to address the concerns identified by the NRC and provide sufficient assurance that the equipment is capable of performing the design function in hostile environments. The format of this report corresponds to the format of the SER. Section III of this report addresses Section 3 of the SER and Section IV of this report addresses Section 4 of the SER. Iowa Electric's action plan for resolution of the environmental qualification issue is addressed by subject in Section II of this report and on a component-specific basis in Sections IV and V of this report. For those components which require specific action to demonstrate environmental qualification, justification for continued operation is given in Section V of this report. In addition, Section II provides information that supplements our November 1, 1980, response to IE Bulletin 79-01b.

Iowa Electric recognizes that the success of the overall effort to document environmental qualification of safety-related electrical equipment is dependent upon the development of a comprehensive program to address the identified concerns. This program is being developed by IE to specifically address the requirements published to date, yet it is intended to be flexible so that it can readily be adapted to accomodate future changes and requirements. The attached response is based on the program in its current form and the best information that is available to us at this time.

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As appears in detail in the enclosed response, various items are specified for which IE is unable to complete qualification by June 30, 1982, in accordance with the Commission's directives. The reasons for this inability are described in the attachment with respect to the respective items of equipment. These reasons include such considerations as the need to complete other items or systems before the equipment of concern can be qualified; unavoidable delays in obtaining qualified replacement equipment; the need to await completion of test programs; the need to await certain related approvals by NRC; the need to await installation of new equipment until the next refueling outage[1]; and other factors. In a number of cases where the equipment involved is generic to a class of BWRs which includes the DAEC, qualification of equipment is contingent upon completion of GE programs with which we understand the NRC is familiar. In each case the enclosed report provides the justification for the continued safety of DAEC operation.

We have been advised that the NRC Staff has recommended to the Commission that the June 30, 1982 requirement for the completion of enviromental qualification of safety-related electrical equipment in operating nuclear power plans be extended as follows:

> By no later than June 30, 1983 all safety-related electrical equipment for operating power reactors shall be qualified in accordance with the provision of: Division of Operating Reactors' "Guidelines for Evaluating Enviromental Qualification of Class IE Electrical Equipment in Operating Reactors" (DOR Guidelines) or NUREG-0588 "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment", December 1979. The Director, Division of Licensing, may in writing grant requests for extensions of this deadline for particular pieces of equipment if such requests are timely filed, demonstrate good faith towards qualifying all equipment, and provide good cause for the extension such as procurement lead time, test complications, and installation problems. (NRC Staff response to Petition for Extension of Deadline for Compliance with CLI 80-21, July 31, 1981.)

Accordingly, this letter together with the enclosed response, constitutes IE's application to the Commission or its designee for an extension of the June 30, 1982 completion date with respect to the DAEC, as follows:

---

[1]Subject to such variables as system demand and plant operating experience, refueling outages have been scheduled tentatively for the fall of 1982 and the spring of 1984.

(a) To the date of startup of the DAEC following the first refueling after June 30, 1982, now expected to take place in the fall of 1982:

Item V-4b	Replace solenoid valve SV-4310
Item V-9b	Install diverse instruments for level switches LS-1861 A, B, C, D
Item V-10b	Replace flow meters FM-8408A, B, C, D
Item V-13b	Complete plant modifications for motor control center 1D-41
Item V-17b	Replace flow switches FIS-2111, 2131

(b) To January 15, 1983:

Item III-3.1	Finalize list of safety display instrumentation

(c) To March 1, 1983:

Item III-3.1	Complete final Component Evaluation Sheets for safety display instrumentation

(d) To the date of startup of the DAEC following the first refueling in 1984, now expected to take place in the spring of 1984:

Item II-A	Complete installation of analog transmitter/trip system This item includes Items V-6b and V-18b
Item III-3.1	Resolve action items for safety display instrumentation
Item V-11b	Requalification or replacement of Heaters 1S-122A, B, C, D
Item V-12b	Requalification or replacement of Exhaust units 1K-25A, B
Item V-14b	Requalification or replacement motors for air cooling units 1V-AC-11, 12
Item V-15b	Requalification or replacement motors for air cooling units 1V-AC-14A, B

(e) We are unable at this time to propose meaningful dates for completion of qualification with respect to the following items of electrical equipment for reasons that are set forth in the specified section of the report referred to below:

Item V-7b	Requalification of RHR Pump Motors 1P-229A, B, C, D
Item V-8b	Requalification of Core Spray Pump Motors 1P-211A, B
Item V-16b	Requalification of Motor-Operated Valves

In each of these cases where no completion date is specified, the program being pursued by IE in order to complete the necessary qualification as promply as possible is also described. Accordingly, this letter also applies for modifications of the order to extend the June 30, 1982 completion date as necessary for IE to complete the program referred to in this paragraph (e) with respect to the corresponding items of equipment. IE proposes to report semi-annually to the NRC Staff in January and July of each year as to its progress in qualifying such equipment.

It was requested during the July 7-10, 1981, industry meeting on environmental qualification in Bethesda, Maryland, that a complete revision of the component evaluation sheets be included with the 90 day SER response. The available time and manpower did not allow for completion of this task. As stated in sectin IV of the attached report, the Appendix A tables address each deficiency identified by the NRC in appendicies B and C of the SER. In addition, the component evaluation sheets for all components located in harsh environments will be updated and submitted for your review by January 15, 1982.

In preparing the enclosed report we have set forth programs which represent our best efforts to complete the qualification of safety-related equipment in accordance with the Commission's directives as promptly as is feasible. It should be recognized, however, that the completion of these programs in accordance with the enclosed report is subject to many uncertainties, including the timely and satisfactory completion of tests and other qualification programs not within the control of IE, timely completion of design and manufacturing by equipment suppliers, and the timely completion by NRC of its formulation of certain requirements. In the semi-annual reports to the NRC proposed above, we will advise the Commission of any delays in these programs and of any anticipated inability of IE to meet the completion dates specified in the attached report.

We will be pleased to meet with you to review the enclosures and to furnish any additional information which may be desired.

The attached report has been reviewed by the DAEC Safety Committee and the DAEC Operations Committee.

Very truly yours,

Larry D. Root

Larry D. Root
Assistant Vice President
Nuclear Generation

LDR/BWR/kmh*
Attachment

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50-331
SAFETY EVALUATION ON ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED ELECTRICAL EQUIPMENT
REC'D W/LTR DTD 9/8/81
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RESPONSE TO

NRC SAFETY EVALUATION REPORT

ON THE

ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED

ELECTRICAL EQUIPMENT

IOWA ELECTRIC LIGHT AND POWER COMPANY

DOCKET NUMBER 50-331

Prepared by
Bechtel Associates
Professional Corporation

September 3, 1981

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APPENDIX

A Master List Class 1E Electrical Equipment Required to Function Under Postulated Accident Conditions

RESPONSE TO U.S. NUCLEAR REGULATORY COMMISSION
SAFETY EVALUATION REPORT
ON THE
ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED
ELECTRICAL EQUIPMENT

I. INTRODUCTION

By a letter dated June 3, 1981, from T.A. Ippolito to D. Arnold, the NRC transmitted the Safety Evaluation Report (SER) for the environmental qualification of safety-related electrical equipment at the Duane Arnold Energy Center (DAEC). This report provides a response to the SER in the form of additional information to address the concerns identified by the NRC and provide sufficient assurance that the equipment is capable of performing the design function in hostile environments. The format of this report corresponds to the format of the SER. Section III addresses Section 3 of the SER and Section IV addresses Section 4 of the SER. Iowa Electric's action plan for resolution of the environmental qualification issue is addressed by subject in Section III and on a component-specific basis in Sections IV and V. For those components which require specific action to demonstrate environmental qualification, justification for continued operation is given in Section V. In addition, Section II provides information that supplements our November 1, 1980, response to IE Bulletin 79-01B.

II. SUPPLEMENTAL INFORMATION

The following information is provided to support the environmental qualification program which is being developed as described in this report. Positions are indicated which supplement and more clearly define our intended actions submitted via the November 1, 1980, response to IE Bulletin 79-01B.

A. ANALOG TRANSMITTER/TRIP SYSTEM

Iowa Electric is currently working to specify an analog transmitter/trip system (ATTS) for the DAEC. Included in this system will be a number of instruments which will replace existing instruments that are included in the equipment qualification program. The present schedule calls for installation of this sytem during the spring 1984 refueling outage. The components which will be replaced as part of ATTS are identified in the "remarks" column of Appendix A of this report.

B. HARSH/MILD DEFINITION

In a format consistent with Appendix C of the November 1, 1980, response to IE Bulletin 79-01B, the system lists included in Appendix A of this report include all components for a given system regardless of their location in a mild or harsh environment. To specifically distinguish those components which are located in harsh environments and therefore require documentation of environmental qualification, a column on each system list titled "environment" indicates an "M" for components in a mild environment or an "H" for components in a harsh environment. To be classified as a mild environment, a location must meet both of the following two criteria:

1. The 30-day post-LOCA integrated radiation dose is less than 1×10^5 rads.

2. The nonradiation parameters as a result of a HELB (temperature, pressure, humidity, etc) are less than the values established as design parameters for the HVAC design at that location. The design parameters for the HVAC are defined by the existing plant design specifications.

All other plant locations are designated as harsh environments. It is Iowa Electric's understanding that this definition is consistent with the NRC staff position delineated in the July 7 through 10 industry meeting on environmental qualification in Bethesda, Maryland.

C. QUALITY ASSURANCE

The Iowa Electric quality assurance program is being applied to the environmental qualification program developed in response to IE Bulletin 79-01B.

III. RESPONSE TO NRC STAFF EVALUATION

This section is dedicated to responding to the NRC inquiries outlined in Section 3 of the SER. For ease of cross-referencing, each concern is answered independently and in the same order as addressed.

Section 3.1, Completeness of Safety-Related Equipment

Display instrumentation which provides information for the reactor operators to aid them in the safe handling of the plant was not specifically identified by the licensee. A complete list of all display instrumentation mentioned in the LOCA and HELB emergency procedures must be provided. Equipment qualification information in the form of summary sheets should be provided for all componenents of the display instrumentation exposed to harsh

environments. Instrumentation which is not considered to be safety-related but which is mentioned in the emergency procedure should appear on the list. For these instruments, 1) justification should be provided for not considering the instrument safety-related, and 2) assurance should be provided that its subsequent failure will not mislead the operator or adversely affect the mitigation of the consequences of the accident.

Response

A complete list of all display instrumentation mentioned in the LOCA and HELB emergency procedures has been developed and is included as System 36 in Appendix A of this report. Note that this listing must be considered preliminary and subject to future change due to the extensive ongoing work to revise the emergency procedures as required by NUREG 0737, Item I.C.1 and in addressing Revision 2 of Regulatory Guide 1.97.

Finalization of safety display instrumentation is being pursued as expeditiously as possible. Iowa Electric has developed a schedule for resolution of safety display instrumentation concerns based on implementation of the revised emergency procedures at the time of the fall 1982 refueling outage. This will allow the final list of safety display instruments which must be environmentally qualified to be completed by January 15, 1983. A component evaluation sheet demonstrating environmental qualification or identifying an action item for each component on the final list will be completed by March 1, 1983. Resolution of all action items identified will be complete by the spring 1984 refueling outage based on the availability of qualified components.

As an interim program for qualification of safety display instrumentation, a component evaluation sheet will be completed for each component identified in System 36 (Appendix A) by January 15, 1982. At that time, a justification for any instruments not considered safety-related, detailing why they are not considered safety-related, will also be provided. The justification will provide assurance that subsequent failure of the instrument will not mislead the operator or adversely affect the mitigation of the consequences of the accident. It is important to note that it is expected that a high percentage of those components addressed in the interim program will also be included in the final listing of safety display instruments.

Section 3.2, Service Conditions

During the review of the service conditions inside primary containment, the NRC staff assumed that for plants designed and equipped with an automatic containment spray system which satisfies the single-failure criterion, the main steam line break (MSLB) environmental conditions are enveloped by the large-break LOCA environmental conditions. The staff assumed, and required the licensee to verify, that the containment spray system is not subjected to a disabling single-component failure and therefore satisfies the requirements of Section 4.2.1 of the DOR Guidelines.

Response

Chapter 14 of the DAEC FSAR describes the postulated accidents that define the licensing basis for the plant. FSAR Section 14.6.3 indicates that:

> Accidents that could result in release of radioactive material directly into the primary containment are the results of postulated nuclear system pipe breaks inside the drywell. All possibilities for pipe break sizes and locations have been investigated including the severance of small pipe lines, the main steam lines upstream and downstream of the flow restrictors, and the recirculation loop pipelines. The most severe nuclear system effects and the greatest release of radioactive material to the primary containment results from a complete circumferential break of one of the recirculation loop pipelines. This accident is established as the design basis loss-of-coolant accident.

In addition, FSAR Section 14.6.3.3.2 indicates that:

> After 600 seconds and with the drywell pressure and reactor water level both permissive, the LPCI pump flow can be diverted from the reactor vessel to the containment spray. This is a manual operation. Actually the containment spray need not be activated at all to maintain the containment pressure below the containment design pressure.

The containment spray function discussed above is provided as an alternative mode of operation of the residual heat removal (RHR) system and is manually initiated by the operator. Two redundant and independent trains of the containment spray subsystem are provided. However, as indicated above, no reliance is placed on these subsystems to mitigate the consequences of the design basis accident.

The environmental conditions inside primary containment have been developed based on Chapter 14 of the FSAR without the inclusion of the benefits of the containment spray system. Based on this discussion, Section 4.2.1 of the DOR Guidelines is not directly applicable to the DAEC.

Section 3.3, Temperature, Pressure, and Humidity Conditions Inside Containment

The staff has concluded that the minimum temperature profile for equipment qualification purposes should include a margin to account for analytical uncertainties in the calculated temperature profiles for postulated accidents. A margin of 20F above steam saturation temperature is considered to be appropriate for either a postulated LOCA or MSLB, whichever is controlling as to potential adverse environmental effects on equipment.

The licensee's specified temperature (service condition) of 281F does not satisfy the above requirement. The licensee should update his equipment summary tables to reflect a temperature margin of at least 20F above steam saturation temperature. If there is any equipment that does not meet the staff position, the licensee must provide either justification that the equipment will perform its intended function under the specified conditions or propose corrective action.

Response

As discussed in the response to Section 3.2 above, the licensing basis for the DAEC establishes the LOCA as the design basis event governing the worst-case post-accident conditions in the drywell. The plant-specific analysis performed in support of the FSAR provided post-accident temperature and pressure conditions that were used as the basis for environmental qualification parameters submitted in the November 1, 1980, response to IE Bulletin 79-01B. This analysis was performed using design basis assumptions and was specifically intended to yield conservative results. An additional 20F margin above steam saturation temperature serves only to add additional conservatism to the existing licensing basis. Iowa Electric does not feel that this additional conservatism is necessary or appropriate; however, based on review of environmental qualification data for components located in the drywell which indicates that no components will be affected by this change, this additional margin will be added to the qualification criteria. The revised qualification temperature is established as follows:

1. Maximum calculated DAEC drywell pressure: 56 psig ≈ 71 psia

2. Steam saturation temperature at 71 psia: 304F

3. Environmental qualification temperature criteria: 324F

The affected component evaluation sheets will be revised to reflect this value. This will be completed by January 15, 1982. 1982.

Section 3.4, Temperature, Pressure, and Humidity Conditions Outside Containment

No additional information has been requested.

Section 3.5, Submergence

It is not clear from the information submitted that submergence of safety-related electrical equipment outside of containment was addressed. The licensee should address this area more specifically in the 90-day response and upgrade the CES as appropriate.

Response

Review of the DOR Guidelines for evaluating environmental qualification of Class 1E electrical equipment in operating reactors indicates that addressing submergence of safety-related electrical equipment outside containment is not required. However, an analysis has been performed in response to the SER request to address this subject. Calculations supporting this analysis were performed by Bechtel Power Corporation, Ann Arbor Power Division and are on file in the Ann Arbor, Michigan office under Task 11186-234. The results of this analysis indicate that flood levels as a result of a HELB in the following rooms will not exceed the following values:

1. HPCI room: 5 inches

2. RCIC room: 1 inch

3. Torus room: 1 inch

4. Reactor water cleanup heat exchanger room: 7 inches

5. Reactor water cleanup pump room: 3 inches

6. Southeast and northwest RHR rooms: 2 inches

7. Steam tunnel: 1 inch

For the turbine building condenser bay and feedwater pump area, there will be no appreciable accumulation of water due to the large expanse of unconfined area.

A review of the safety-related electrical equipment which is required to function to mitigate the consequences of the HELB in an area indicates that it is all located above the maximum flood elevation and therefore the equipment qualification parameters are not affected. The component evaluation sheets for equipment located in these areas will be revised to reflect the appropriate flood elevation by January 15, 1982.

Section 3.6, Chemical Spray

The licensee stated that the use of a chemical spray is limited to the potential use of the low-pressure injection system to inject suppression pool water into the drywell via a spray header. The suppression pool water is expected to maintain a relatively neutral pH even following the postulated LOCA. The licensee must provide additional information to address the spray parameters of qualification for affected equipment items.

Response

As stated, the DAEC design does not include a chemical spray. The spray system inside drywell is limited to use of suppression pool water. For components located inside primary containment, the appropriate qualification parameters for water spray will be reflected on the component evaluation sheet and each component will be evaluated to determine the affect of water spray on its qualification. This parameter will be evaluated using a demineralized water spray with a pH of 6 to 8 at 77F and at a rate of 270 inches per hour. This evaluation and identification of any subsequent action items will be completed by January 1, 1982. Resolution of any action items will be completed as expeditiously as possible, and in no case later than the first refueling following receipt of replacement equipment.

Section 3.7, Aging

Section 7 of the DOR Guidelines does not require a qualified life to be established for all safety-related electrical equipment. However, the following actions are required:

(1) Make a detailed comparison of existing equipment and the materials identified in Appendix C of the DOR Guidelines. The first supplement to IEB-79-01B required licensees to utilize the table in Appendix C and identify any additional materials as the result of their effort.

(2) Establish an ongoing program to review surveillance and maintenance records to identify potential age-related degradations.

(3) Establish component maintenance and replacement schedules which include considerations of aging characteristics of the installed components.

For this review, however, the staff requires that the licensee submit supplemental information to verify and identify the degree of conformance to the above requirements. The response should include all the equipment identified as required to maintain functional operability in harsh environments.

Response

A program is being developed to verify aging qualification for all components requiring environmental qualification. This program will include the following actions:

1. Identify age susceptible materials in each component.

2. Establish an ongoing program to review surveillance and maintenance records to identify potential age-related degradations.

3. Establish component maintenance and replacement schedules which include considerations of aging characteristics of the installed components.

This program will be established by June 30, 1982.

Section 3.8, Radiation (Inside and Outside Containment)

The value required by the licensee inside containment is an integrated dose of 2.3×10^7 rads. The radiation service condition provided by the licensee is lower than provided in the DOR Guidelines for gamma and beta radiation. The licensee is requested to either provide justification for using the lower service condition or use the service condition provided in the DOR Guidelines for both gamma and beta radiation. If the former option is chosen, then the analysis, including the basis, assumptions, and a sample calculation, should be provided.

Response

As stated in Section IV.B.1.b of the November 1, 1980, response to IE Bulletin 79-01B, the total integrated dose used for environmental qualification of equipment inside the primary containment is 4.3×10^7 rads. This integrated dose

consists of 2.0×10^7 rads normal 40-year dose and 2.3×10^7 rads accident dose. Interpretation of the criteria for radiation doses inside containment in the DOR Guidelines indicates an acceptable value of 4.0×10^7 rads for combined normal and accident doses. This value was presented by the NRC staff at the July 7 through 10, 1981, industry meeting on environmental qualification in Bethesda, Maryland, as acceptable without further justification. Based on the DAEC qualification value of 4.3×10^7 rads, which exceeds the criteria of 4.0×10^7 rads, it is not considered necessary to revise the qualification value or provide additional justification for the current value.

IV. RESPONSE TO NRC-IDENTIFIED DEFICIENCIES

In accordance with Action Item 1 of IE Bulletin 79-01B, a master list of electrical equipment within each safety system required to function under postulated accident conditions was provided as Appendix C of the November 1, 1980, response to the bulletin. Each of the system lists in Appendix C has been expanded to provide additional information for each component and is included as Appendix A of this report to provide an item-by-item response to Section 4 of the Safety Evaluation Report (SER). The equipment identified in the system lists is unchanged with the exception of updating System 35 (NUREG 0578 Modifications) to reflect additional equipment installed in response to the TMI Lessons Learned. Also, System 36 has been added to address safety display instrumentation.

A. REVISIONS TO SYSTEM LISTS

1. Additional information added to each system list in Appendix A to address Section 4 of the SER is as follows:

   a. Equipment Manufacturer and Model Number

      This is included for all components in both harsh and mild environments.

   b. Location and Elevation

      This identifies a specific plant area where the component is physically located.

   c. Environment

      The location for the component is specifically identified as "harsh" or "mild" for each component (see Section II.B for definitions).

d. Remarks

Reference is made in the remarks column to notes which specifically address the deficiencies identified for each component in the SER. For all components identified as deficient for aging, refer to Section III-3.7 for a discussion of the aging program.

2. In addition to the above information, the following references were added for Iowa Electric's convenience:

a. P&ID references

b. Layout drawing references

c. Electrical scheme references

V. ACTION PLAN

The information provided in this section is an item-by-item description of the intended action for each of the 18 action items identified in Section V of the November 1, 1980, response to IE Bulletin 79-01B. Each item is numbered to correspond to the November 1 report and is presented as follows: Item a repeats the action item from the November 1 report; Item b is a description of the intended resolution for the item; and Item c is the justification for continued operation from the November 1 report. All sections which have been duplicated from the November 1 report and/or contain references to sections of that report are designated with an asterisk (*).

1. ASCO Solenoid Valves

* a. Action

As discussed in General Comment 8 of Appendix D to this report, it is intended that the following ASCO solenoid valves be replaced during the 1981 refueling outage at the DAEC:

SV-2206	SV-7639B	SV-5718A
SV-7605B	SV-3728	SV-5719B
SV-2235	SV-5718B	SV-5719A
SV-2234	SV-5704A	SV-5703B
SV-2212	SV-2034	SV-3705
SV-2211	SV-5704B	SV-3704
SV-7605A	SV-1964	SV-3729
SV-7639A	SV-5703A	

Based on their location, we have calculated that these valves will receive a radiation dose in excess of 4.0×10^5 rads at the disk holder following a LOCA, only after reaching a safe condition. We have been advised by ASCO and by statements contained in NRC IE Bulletin 79-01A plug in the actual disk holder assembly and bottom plug in the valve assembly have a maximum service limit of 4.0×10^5 rads.

b. Resolution

All of the subject valves were replaced during the 1981 refueling outage via DCR 986. The replacement valves have a radiation qualification value of 2×10^7 rads and are identified as follows:

Item	Iowa Electric Tag Number	Existing ASCO Catalog Number	Replacement ASCO Catalog Number	Voltage
1	SV 1964	8320-A6	NP8320A173E	120 V ac
2	SV 2034	8320-A6	NP8320A173E	120 V ac
3	SV 2206	HB8302C25RU	205-381-2RU	125 V dc
4	SV 2211	8302C24	206-381-1F	125 V dc
5	SV 2212	8302C24	206-381-1F	125 V dc
6	SV 2234	HB8302C25RU	206-381-2RU	125 V dc
7	SV 2235	HB8302C25RU	206-381-2RU	125 V dc
8	SV 3704	831665	NP831665E	120 V ac
9	SV 3705	831665	NP831665E	120 V ac
10	SV 3728	831665	NP831665E	120 V ac
11	SV 3729	831665	NP831665E	120 V ac
12	SV 5703A	8302C26RU	206-832-3RU	120 V ac
13	SV 5703B	8302C26RU	206-832-3RU	120 V ac
14	SV 5704A	8302C26RU	206-832-3RU	120 V ac
15	SV 5704B	8302C26RU	206-832-3RU	120 V ac
16	SV 5718A	8302C26RU	206-832-3RU	120 V ac
17	SV 5718B	8302C26RU	206-832-3RU	120 V ac
18	SV 5719A	8302C26RU	206-832-3RU	120 V ac
19	SV 5719B	8302C26RU	206-832-3RU	120 V ac
20	SV 7605A	831665	NP831665E	120 V ac
21	SV 7605B	831665	NP831665E	120 V ac
22	SV 7639A	FT8317A29	NP8321A5	125 V dc
23	SV 7639B	FT8317A29	NP8321A5	125 V dc

NOTE: The 206 series of the replacement ASCO solenoids have qualification equivalent to NP series solenoids.

2. Main Steam Safety Relief Solenoid Valves

* a. Action

The solenoid valves for the main steam safety relief valves will either be replaced or shielded. Documentation for these solenoid valves indicates that they are qualified for an integrated radiation dose of 3×10^7 rads, which is less than the criteria value of 4.3×10^7 rads established for equipment in the drywell as discussed in Section IV.B.1.b of the report. The plant identification numbers for these valves are as follows:

SV-4400	SV-4405
SV-4402	SV-4406

b. Resolution

Subsequent investigation indicates that the existing valves are qualifed for up to 14 years of normal operation plus an accident radiation dose. Consequently, they are being included in the DAEC preventative maintenance program and will be maintained as required and replaced at the end of their useful service life. This completes the action for this item.

3. Terminal Blocks

* a. Action

Qualification of terminal blocks not qualified as part of overall equipment packages could not be sufficiently established. As a result, we have identified six terminal boxes located in the drywell and reactor water cleanup pump room which require replacement. The boxes identified are as follows:

1J 1190	3J 1192	3J 706
2J 1641	4J 1642	1J 705

b. Resolution

The subject terminal blocks were replaced during the 1981 refueling outage via DCR 1010. The replacement terminal blocks are Amerace-Buchanan Model NQB108 with a radiation qualification value of 2×10^8 rads.

4. Solenoid Valve SV-4310

* a. Action

Solenoid valve SV-4310, located in the heating and ventilating valve control room, will be replaced. This is due to the high normal operating temperature at this location estimated to be 150F. Documentation to show that this temperature will not cause deleterious thermal aging during 40 years of normal operation was not available.

b. Resolution

The subject valve is scheduled to be repalced during the fall 1982 refueling outage via DCR 986. The replacement valve is an ASCO Model NP-831665E qualified for a normal temperature environment of 150F.

* c. Justification for Continued Operation

Although qualification data are not available for aging, continued station operation is justified in that this valve undergoes periodic surveillance testing which will identify age-related degradation prior to replacement.

5. Main Steam Isolation Valve Position Switches

* a. Action

These position switches are Namco Model EA 740, and were installed during the 1980 DAEC refueling outage. Information discovered during our review for Bulletin 79-01B has indicated that the cover gasket material has a qualified life of approximately 1 year in the ambient temperatures expected in the drywell and steam tunnel. It is intended to replace these gaskets on an interval consistent with their qualfication.

b. Resolution

During the 1981 refueling outage, the existing gaskets were replaced with Namco Models EA749-200-21 and EA-749-200-26 gaskets via the preventative maintenance program. These gaskets have an extended service life over the original gaskets; however, these components will be retained in the preventative maintenance program and will be maintained as required. The gaskets will be replaced at the end of their useful service life. This completes the action for this item.

6. Pressure Transmitters PDT-2046, 1947

* a. Action

These pressure transmitters are General Electric Model 50-552032HKZZ2 which sense differential pressure between the tubes and shell of the RHR heat exchanger. They maintain service water pressure greater than RHR system pressure to prevent radioactive leakage into RHR service water. They are located in the RHR rooms and must be qualified for a radiation dose of 4.26×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric. It will either be determined by a more detailed radiation calculation that the dose received by these components is significantly lower, possibly nonharsh, or alternatively, these components will be shielded.

b. Resolution

These components are included in the scope of the analog transmitter/trip system discussed in Section II-A of this report. The existing transmitters will be replaced with components qualified in accordance with NUREG 0588 Category I requirements on a schedule consistant with the analog transmitter trip system.

* c. Justification for Continued Operation

Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. During this time, action will be taken to shut down redundant systems beyond those needed for coolant injection. This will result in radiation exposures to only one of two redundant equipment trains. Also, actual doses will be less than those calculated using such conservative assumptions. Finally, if the operating equipment suffers degradation due to radiation exposure, the shutdown redundant system will be activated. During time available after stabilization of core cooling, additional coolant injection paths will be established, if necessary, to ensure long-term cooling.

7. RHR Pump Motors 1P-229A,B,C,D

* a. Action

These motors are General Electric Model 5K6336XC213A. They are located in the RHR rooms and must qualify for a radiation dose of 4.26×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric.

b. Resolution

Iowa Electric is currently participating in efforts with General Electric and the BWR Owners Group on Environmental Qualification to document the qualification of these motors. It is anticipated that Iowa Electric will concur with the results of this generic effort. No specific schedule for completion of this program has been established; however, it is being pursued as expeditiously as possible with General Electric.

* c. Justification for Continued Operation

Continuing station operation is justified for the following reasons:

1) General Electric provided the following justification for continued operation: Continued plant operation can be justified by the fact that the GE-made pump motor Model 5K6336XC229A is the 5K type series and can be compared to a similar motor tested.

2) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. During this time, action will be taken to shut down redundant systems beyond those needed for coolant injection. This will result in radiation exposures to only one of two redundant equipment trains. Also, actual doses will be less than those calculated using such conservative assumptions. Finally, if the operating equipment suffers degradation due to radiation exposure, the shutdown redundant system will be activated. During the time available after stabilization of core cooling, additional coolant injection paths will be established, if necessary, to ensure long-term cooling.

3) The core spray and RHR systems are equally independent and redundant. Only one of these systems is necessary to achieve and maintain adequate core cooling. A single failure of a pump in either system will not degrade the mutual redundancy of the systems.

8. Core Spray Pump Motors 1P-211A,B

* a. Action

These motors are General Electric Model 5K6336XC229A. They are located in the RHR rooms and must qualify for a radiation dose of 4.26×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric.

b. Resolution

Iowa Electric is currently participating in efforts with General Electric and the BWR Owners Group on Environmental Qualification to document the qualification of these motors. It is anticipated that Iowa Electric will concur with the results of this generic effort. No specific schedule for completion of this program has been established; however, it is being pursued as expeditiously as possible with General Electric.

* c. Justification for Continued Operation

Continuing station operation is justified for the following reasons:

1) General Electric provided the following justification for continued operation: Continued plant operation can be justified by the fact that the GE-made pump motor Model 5K6336XC229A is the 5K type series and can be compared to a similar motor tested.

2) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. During this time, action will be taken to shut down redundant systems beyond those needed for coolant injection. This will result in radiation exposures to only one of two redundant equipment trains. Also, actual doses will be less than those calculated using such conservative assump-

tions. Finally, if the operating equipment suffers degradation due to radiation exposure, the shutdown redundant system will be activated. During the time available after stabilization of core cooling, additional coolant injection paths will be established, if necessary, to ensure long-term cooling.

3) The core spray and RHR systems are equally independent and redundant. Only one of these systems is necessary to achieve and maintain adequate core cooling. A single failure of a pump in either system will not degrade the mutual redundancy of the systems.

9. Level Switches LS-1861A,B,C,D

* a. Action

These level switches function for reactor shutdown on scram discharge volume high level. They are Magnetrol Model SL5.0-751, but were supplied by General Electric. They are located in the reactor building and must qualify for a radiation dose of 2.83×10^5 rads (1-hour dose following a LOCA due to operational requirement of only first few seconds following an accident). General Electric has qualified these items for 1.7×10^5 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric. It will either be determined by a more detailed radiation calculation that the dose received by these components is significantly lower, possibly nonharsh, or alternatively, these components may be shielded.

b. Resolution

In response to IE Bulletin 80-17 Iowa Electric is installing new redundant and diverse scram discharge volume level sensors via DCR 1047. These sensors are being procured in accordance with NUREG 0588, Category I requirements. While these sensors will not replace LS-1861A,B,C,D, they will perform the same function and be environmentally qualified. These instruments are scheduled to be installed during the fall 1982 refueling outage.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) The function of these components is only important prior to a reactor scram. It is realistic to assume that a reactor scram will occur prior to any significant fuel damage. This, and the fact that these components are arranged in four independent and redundant safety channels, ensures that these components will perform their function prior to any significant radiation dose.

2) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions. This conservatism applies to the 1-hour dose quoted above (2.83×10^5 rads).

10. Flow Meters FM-8408A,B,C,D

* a. Action

These flowmeters monitor main steam line leakage flow. They are S.K. Instrument Model 20-9651-8550, but were supplied by General Electric. They are located in the steam tunnel and must qualify for a total dose of 1.54×10^7 rads (40-year normal operating dose plus 30-day accident dose). S.K. Instrument has qualified these components for a total dose of 1×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric. It will either be determined by a more detailed radiation calculation that the dose received by these components is significantly lower, possibly nonharsh, or alternatively, these components be shielded.

b. Resolution

Subsequent investigation and evaluation indicate that it is not feasible to document qualification of these instruments. These instruments will be replaced with Barton Model 765 transmitters procured in accordance with NUREG 0588, Category I requirements. The estimated procurement lead time is 30 weeks after the vendor acceptance of order; therefore, these instruments will be installed during the next scheduled refueling outage in the fall of 1982.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

2) Failure of these components could, at worst, cause the failure of the MSIV leakage control system to function properly. In this case, radioactive leakage past the MSIVs, which is expected to be minimal, will normally be contained by the main steam piping outside drywell.

11. Heaters 1S-122A,B,C,D

* a. Action

These heaters function for vaporization of main steam line leakage. They are General Electric Model 5A356W020. They are located in the steam tunnel and must qualify for a total dose of 1.54×10^7 rads (40-year normal operating dose plus 30-day accident dose). Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric. It will either be determined by a more detailed radiation calculation that the dose received by these components is significantly lower, possibly nonharsh, or alternatively, these components may be shielded.

b. Resolution

Iowa Electric has initiated efforts with General Electric to obtain sufficient information on these components to perform an engineering analysis that will demonstrate environmental qualification. If insufficient information is available to perform an analysis, these components will be replaced with heaters procured to NUREG 0588, Category I requirements. In that event, and dependent on procurement lead time, these components will be replaced during one of the next two refueling outages scheduled for fall 1982 and spring 1984.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

2) Failure of these components could, at worst, cause the failure of the MSIV leakage control system to function properly. In this case, radioactive leakage past the MSIVs, which is expected to be minimal, will normally be contained by the main steam piping outside drywell.

12. Exhaust Units 1K-25A,B

* a. Action

These motor-operated blowers exhaust main steam line leakage. They are Siemens Model 2CHB-041-IO, but were supplied by General Electric. They are located in the reactor building and must qualify for a total dose of 2.74×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with General Electric. It will either be determined by a more detailed radiation calculation that the dose received by these components is significantly lower, possibly nonharsh, or alternatively, these components may be shielded.

b. Resolution

Iowa Electric has initiated efforts with Siemens Allis and General Electric to obtain sufficient information on these components to perform an engineering analysis that will demonstrate environmental qualification. If insufficient information is available to perform an analysis, these components will be replaced with components procured to NUREG 0588, Category I requirements. In that event, and dependent on procurement lead time, these components will be replaced during one of the next two refueling outages scheduled for fall 1982 and spring 1984.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

2) Failure of these components could, at worst, cause the failure of the MSIV leakage control system to function properly. In this case, radioactive leakage past the MSIVs, which is expected to be minimal, will normally be contained by the main steam piping outside drywell.

13. Motor Control Center 1D41

* a. Action

This dc motor control center supplies power to one train of safety-related equipment. It is an ITE-Imperial (currently Gould-Brown Boveri) 9600 line type motor control center. It is located in the reactor building and must qualify for a total dose of 2.74×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with Gould-Brown Boveri. Alternatively, this component may be shielded.

b. Resolution

An engineering analysis will be performed for this component to demonstrate environmental qualification. This analysis will be performed based on information that is available from the Iowa Electric engineering and maintenance files. Should this analysis show that the motor control center is not qualified for its radiation environment, it will be shielded to reduce the local radiation to below the qualified value. The engineering analysis will be completed by June 30, 1982; any subsequent plant modifications will be completed by the next scheduled refueling outage in fall 1982.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

2) This motor control center supplies the HPCI system with dc power. Refer to Note 12 of the Appendix D introduction for a discussion of justification for continued operation of the HPCI system. This discussion indicates that the HPCI system is not required for a large LOCA. The radiation dose quoted is for a large LOCA. As such, the component is not likely to be exposed to the dose quoted.

14. Air Cooling Units 1V-AC-11,12

* a. Action

The motors for these air cooling units are Westinghouse Model 7302. These units function to provide post-accident room cooling for the RHR rooms. These units are located in the RHR rooms and must qualify for a total dose of 4.26×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with Westinghouse. Alternatively, these components may be shielded.

b. Resolution

Subsequent investigation and evaluation indicate that it is not feasible to document qualification of these motors. These motors will be replaced with new motors procured in accordance with NUREG 0588, Category I requirements. Iowa Electric is currently locating a supplier for these motors. Depending on procurement lead time, these motors will be replaced during one of the next two refueling outages scheduled for fall 1982 and spring 1984.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

2) Failure of the room cooling unit would, at worst, result in elevated room temperatures during emergency conditions. A study was recently completed to evaluate the effect of loss of room cooling in the HPCI room. The results of this study, which are conservatively analogous to the RHR corner rooms, show a temperature rise of approximately 13F in 2 hours using conservative assumptions. Under realistic room and environmental conditions, it is expected that the room temperature will remain near or below the maximum design room temperature.

3) Although each RHR corner room contains one cooling unit, the corner rooms and their associated safety-related equipment provide redundant safety trains.

15. Air Cooling Units 1V-AC-14A,B

* a. Action

The motors for these air cooling units are Westinghouse Model 7302. These units function to provide post-accident room cooling for the HPCI room. These items must qualify for a total dose of 8.18×10^6 rads. Qualification for pressure, temperature, and humidity is not required. Qualification will be pursued with Westinghouse. Alternatively, these components may be shielded.

b. Resolution

Subsequent investigation and evaluation indicate that it is not feasible to document qualification of these motors. These motors will be replaced with new motors procured in accordance with NUREG 0588, Category I requirements. Iowa Electric is currently locating a supplier for these motors. Depending on procurement lead time, these motors will be replaced during one of the next two refueling outages scheduled for fall 1982 and spring 1984.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Justification for continued operation with respect to the HPCI system is addressed in Note 12 to the Appendix D introduction.

2) Justification for continued operation with respect to the safety-related components in the HPCI room other than the HPCI system is as follows:

a) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

b) Failure of the room cooling units would, at worst, result in an elevated room temperature during emergency conditions. A study was recently completed to evaluate the effect of loss of room cooling in the HPCI room. The results of this study show a temperature rise of approximately 13F in 2 hours using conservative assumptions. Under realistic room and environmental conditions, it is expected that the room temperature will remain near or below the maximum design room temperature.

c) The HPCI room cooling units are redundant and would require failure of both units to affect the ability to control the room temperature.

16. Motor-Operated Valves

* a. Action

The following motor operators are Limitorque Type SMB with dc motors manufactured by Peerless. The motors have Class B insulation.

MO-1901	MO-2247	MO-2316	MO-2510
MO-1909	MO-2300	MO-2318	MO-2512
MO-1937	MO-2311	MO-2321	MO-2517
MO-2202	MO-2312	MO-2322	MO-2701
MO-2239	MO-2315	MO-2401	MO-4424

These motor operators are located in various plant areas and must qualify for differing levels of temperature, pressure, humidity, and radiation. Currently, the qualification information for these items is incomplete. Qualification for these components will be pursued with Limitorque.

b. Resolution

Iowa Electric is currently participating in efforts with Limitorque and the BWR Owners Group on Environmental Qualification to document the qualification of these motors. It is anticipated that Iowa Electric will concur with the results of this generic effort. No specific schedule for completion of this program has been established; however, it is being pursued as expeditiously as possible.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. Therefore, actual doses will be less than those calculated using such conservative assumptions.

2) These components complete their function in a very short period of time and will not experience significant effects of increased environmental conditions in this short time period.

3) These components undergo periodic functional testing to verify operability.

4) Other Limitorque equipment similar in design (dc Class H insulation, ac Class B insulation) to this equipment has successfully been qualified for environments in excess of the calculated requirements for this equipment.

5) Limitorque has informally indicated that these valves are capable of successful qualification in the given environment.

17. <u>Flow Switches FIS-2111, 2131</u>

* a. Action

These flow switches are Barton Model 289 and are qualified for an integrated radiation dose of 3×10^6 rads (reference ITT Barton Report R3-288A-1 dated May 1980 and Barton letter to Bechtel dated June 10, 1980). These items are located in the RHR rooms and must qualify for a total dose of 4.26×10^6 rads. Qualification for pressure, temperature, and humidity is not required. These flow switches will either be replaced or shielded.

b. Resolution

These instruments will be replaced with Barton Model 581 switches procured in accordance with NUREG 0588, Category I requirements. The estimated procurement lead time is 52 weeks after vendor acceptance of order; therefore, these instruments will be installed during the next scheduled refueling outage in the fall of 1982.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. During this time, action will be taken to shut down redundant systems beyond those needed for coolant injection. This will result in radiation exposures to only one of two redundant equipment trains. Also, actual doses will be less than those calculated using such conservative assumptions. Finally, should the operating equipment suffer degradation due to radiation exposure, the shutdown redundant system will be activated. During the time available after stabilization of core cooling, additional coolant injection paths will be established, if necessary, to ensure long-term cooling.

2) Failure of the flow switch could affect the operation of core spray miniflow control valves MO-2104 and MO-2124. If the valve remains open longer than is intended, the result would be a slight reduction in core spray system flow to the reactor vessel until operator action is taken to manually close the valve. If the valve remains closed longer than is intended, operator action will be taken to either open the valve or shut off the affected core spray pump.

3) Automatic operation of miniflow bypass control is intended for initial startup of the LPCI immediately after an accident. Because it is already known that the switches are qualified to 70% of the 30-day integrated dose, they can be expected to operate through the initial stages of an accident. In the longer term, startup and shutdown of the core spray system will be performed manually under close operator supervision to ensure that adequate flowpaths are available.

18. Pressure Switches PDIS-1971A,B

* a. Action

These pressure switches are Barton Model 289 and are qualified for an integrated radiation dose of 3×10^6 rads (reference ITT Barton Report R3-288A-1 dated May 1980 and Barton letter to Bechtel dated June 10, 1980). These items are located in the RHR rooms and must qualify for a total dose of 4.26×10^6 rads. Qualification for pressure, temperature, and humidity is not required. These pressure switches will either be replaced or shielded.

b. Resolution

These components are included in the scope of the analog transmitter/trip system discussed in Section II-A of this report. The existing switches will be placed with components qualified in accordance with NUREG 0588 Category I requirements on a schedule consistent with the analog transmitter/trip system.

* c. Justification for Continued Operation

Continued station operation is justified for the following reasons:

1) Radiation doses were calculated using conservative, nonmechanistic models. Mechanistic release models will result in radiation releases which occur several hours after the postulated accident. During this time, action will be taken to shut down redundant systems beyond those needed for coolant injection. This will result in radiation exposures to only one of two redundant equipment trains. Also, actual doses will be less than those calculated using such conservative assumptions. Finally, if the operating equipment suffers degradation due to radiation exposure, the shutdown redundant system will be activated. During the time available after stabilization of core cooling, additional coolant injection paths will be established, if necessary, to ensure long-term cooling.

2) Failure of the flow switch could affect the operation of RHR miniflow control valves MO-2009 and MO-1935. If the valve remains open longer than is intended, the result would be a slight reduction in RHR system flow to the reactor vessel until operator action is taken to manually close the valve. If the valve remains closed longer than is intended, operator action will be taken to either open the valve or shut off the affected RHR pumps.

3) Automatic operation of miniflow bypass control is intended for initial startup of the LPCI immediately after an accident. Because it is already known that the switches are qualified to 70% of the 30-day integrated dose, they can be expected to operate through the initial stages of an accident. In the longer term, startup and shutdown of the RHR system will be performed manually under close operator supervision to ensure that adequate flowpaths are available.

APPENDIX A

MASTER LIST CLASS 1E ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

REMARKS

1. This component performs its function immediately following an accident and is not required to function subsequently. Therefore, the qualification time used for radiation qualification is 1 hour. The manufacturer has indicated that the materials used in the component are suitable for 4×10^5 rads. Because this component is located in an area of the plant where the total integrated dose is less than 4×10^5 rads in 1 hour, the component is considered acceptable.

2. This component is required only to detect a HELB outside primary containment. Therefore, there is no requirement for post-LOCA radiation qualification. In addition, the component has been tested at temperatures higher than the setpoint of the associated instrumentation. The component will perform its function prior to exceeding the qualification test value. Therefore, qualification testing to higher values will not enhance the ability of the component to perform its function at its setpoint value.

3. Action item identified in November 1, 1980, response to IE Bulletin 79-01B. Refer to Section V of this report for detailed action plan.

4. This component will not be subjected to a harsh environment (temperature, pressure, relative humidity) following a postulated HELB.

5. This equipment was replaced with environmentally qualified equipment during the 1981 refueling outage.

6. This equipment is in a mild environment.

7. Review of the HPCI steam line break HELB profiles in the torus area shows that the temperature exceeds the motor operator qualification temperature of 250F by 27 degrees for 2 seconds. However, during the qualification test, the motor operator was exposed to 250F for 24 hours. Also, considering the thermal inertia of the motor operator, this 2-second temperature rise should not be detrimental to its operation. In calculating the maximum temperature, heat sinks were not considered, thus adding conservatism. A postulated HPCI steam line break in the torus room results in a peak pressure of 2 psig. This component was type tested at a maximum pressure of 25 psig. With regard to operating time, this motor operator was type tested at a temperature of 250F for 24 hours and 200F for an additional 15 days.

8. Actual tests were conducted to verify qualification to 1×10^8 rads for large canister type penetrations and at least 4×10^7 rads for small 100 and 200 series penetrations. This radiation qualification was developed by General Electric and transmitted to the NRC via a letter, G.G. Sherwood of GE to D.G. Eisenhut of the NRC dated December 2, 1977.

9. This component is part of the HPCI system. In the initial response, the purpose and functioning of the HPCI system were analyzed and it was concluded that radiation qualification is not required. Iowa Electric is participating in the BWR Owners Group on Environmental Qualification which supports this as a generic position. The Owners Group is developing an analysis to support this position and Iowa Electric anticipates that it will concur with the final Owners Group result.

10. Radiation qualification was determined by comparing NRC IE Bulletin 79-01B Appendix C, Thermal and Radiation Aging Degradation of Selected Materials, with a list of materials supplied by the manufacturer. The most susceptible material was identified as phenolic with a threshhold of damage of 10^6 rads, which is greater than the total 30-day post-accident integrated dose where the device is located.

11. A qualification type test was conducted by the manufacturer to demonstrate qualification for a radiation environment of 3×10^6 rads. Because this component is located in an area which receives a total 30-day post-accident integrated dose of less than 3×10^6 rads, this component is considered acceptable.

12. The subject devices have been placed on the DAEC preventive maintenance program list for periodic replacement based upon their radiation qualification.

13. This solenoid valve is located in the reactor building. The manufacturer has indicated that the only resilent materials in the valve are Buna-N and Viton. Based on Battelle Memorial Institute Report 21, both materials are suitable up to 4×10^6 rads. Because this valve is located in an area of the plant where the total 30-day post-accident integrated dose is less than 4×10^6 rads, this component is considered acceptable.

14. This component does not require qualification for pressure, temperature, and relative humidity post-accident because it is not located in the vicinity of a HELB outside primary containment.

15. The qualification method is by engineering analysis. This position transmiter is an integral part of a Limitorque motor operator. It is a slide wire type composed of copper, ceramic tubing, and aluminum hardwire. This component needs to function in a radiation environment only. The simple construction of this device and the fact that the materials are metallic or ceramic and are not degraded by radiation support the environmental qualification.

16. This device will be replaced by a new qualified device via the analog trip system which will be installed in 1984.

LOCATION ABBREVIATIONS

Location	Abbreviation
Above CRD repair room	A CRD rr
Control building, control room	CB ctl rm
Control building H&V room	CB H&V rm
Diesel generator room	DG room
Drywell	Drywell
Essential switchgear room	E SWGR rm
H&V control valve room	H&V cv rm
HPCI room	HPCI room
Intake structure	Intake str
Northeast corner room	NE crnr rm
Northwest corner room	NW crnr rm
Offgas stack building	Offgas
Outside turbine building	Outside TB
Pumphouse	Pumphouse
RCIC room	RCIC room
RHR valve room	RHR vlv rm
Radwaste building	Rad bldg
Radwaste tank room	Rad tk rm
Reactor building	RB
Reactor building, north	RB-N
Reactor building, south	RB-S
Reactor vessel	RV
Reactor water cleanup pump room	RWCU pr
Reactor water cleanup heat exchanger room	RWCU hxr
River intake building (intake structure)	Intake str
Southeast corner room	SE crnr rm
Southwest corner room	SW crnr rm
Standby gas treatment room	SGT room
Steam tunnel	Stm tunnel
Switchgear room	SWGR room
Torus room, north	Torus rm-N
Torus room, south	Torus rm-S
Turbine building	TB
Turbine building, north	TB-N
125 V battery room	125V by rm
250 V battery room	250V by rm
24 V battery room	24V by rm

SYSTEM: CONTROL ROD DRIVE SYSTEM (SYSTEM 2)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-1804A	Solenoid valve	Asco	8320A90HB	RB-S	757'	H	M117/A5	E122/12	M405-2/C6	1
SV-1804B	Solenoid valve	Asco	8320A90HB	RB-S	757'	H	M117/A5	E122/13	M405-2/C6	1
SV-1840A (C11-F110A)	Solenoid valve	Asco	8320A90HB	RB-S	757'	H	M117/G6	E66	E319/E3	1
SV-1840B (C11-F110B)	Solenoid valve	Asco	8320A90HB	RB-S	757'	H	M117/G6	E66	E319/E3	1
SV-1855	Solenoid valve	Asco	HVA-90-405	RB	757'	H	M118/E6	E66	M405-2/E6	1
SV-1856	Solenoid valve	Asco	HVA-90-405	RB	757'	H	M118/E6	E66	M405-2/E6	1
SV-1868 (C11-F009A)	Solenoid valve	Asco	8323-22	RB-S	757'	H	M118/D4	E66	E319/E4	1
SV-1869 (C11-F009B)	Solenoid valve	Asco	8323-22	RB-S	757'	H	M118/D4	E66	E319/E4	1
HS-1804A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M117/A5	E122/12	E338/D5	6
HS-1804B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M117/A5	E122/13	E338/D5	6
LS-1861A (C11-N013A)	Level switch	Magnetrol	SL5.0-751	RB-S	757'	H	M118/F5	E66	E319/E5	3
LS-1861B (C11-N013B)	Level switch	Magnetrol	SL5.0-751	RB-S	757'	H	M118/F4	E66	E319/E5	3
LS-1861C (C11-N013C)	Level switch	Magnetrol	SL5.0-751	RB-N	757'	H	M118/F3	E66	E318/E5	3
LS-1861D (C11-N013D)	Level switch	Magnetrol	SL5.0-751	RB-N	757'	H	M118/F3	E66	E318/E5	3

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
MO-4423	Gate valve (motor-operated)	Limitorque	SMB-00	Drywell	754'	H	M114/B3	E122/2	E329/E2	
MO-4424	Gate valve (motor-operated)	Limitorque	SMB-00	Stm tunnel	757'	H	M114/B3	E122/5	E328/E4	3
MO-2740	Globe valve (motor-operated)	Limitorque	SMB-0	RB-S	757'-6"	M	M127/G4	E122/14	E319/F3	6
SV-3728	Solenoid valve	ASCo	NP831665E	Torus rm-N	755'	H	M137/D6	E122/9	E316/D7	5,3
SV-3729	Solenoid valve	ASCo	NP831665E	Torus rm-N	740'	H	M137/D6	E122/9	E316/D7	5,3
SV-3704	Solenoid valve	ASCo	NP831665E	Torus rm-S	747'	H	M137/G7	E122/9	E317/F3	5,3
SV-3705	Solenoid valve	ASCo	NP831665E	Torus rm-S	747'	H	M137/G7	E122/9	E317/F3	5,3
MO-4841B	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	755'	H	M112/F3	E111/17	E316/E5	7
MO-4841A	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	755'	H	M112/E3	E111/17	E316/E5	7
SV-4639	Solenoid valve	ASCo	206-832-2RG	Drywell	786'	H	M116/F6	E122/10	E330/B5	
SV-4640	Solenoid valve	ASCo	8302C25RU	RWCU hxr	786'	H	M116/F6	E122/10	E321/E5	1
SV-4413A	Solenoid valve	ASCo	NP8320A183E	Stm tunnel	758'	H	M114/F2	E121/11	E328/D4	
SV-4413B	Solenoid valve	ASCo	NP8323A36V-DC	Stm tunnel	758'	H	M114/F2	E121/11	E328/D4	
SV-4413C	Solenoid valve	ASCo	NP8323A36V-AC	Stm tunnel	758'	H	M114/F2	E121/11	E328/D4	
SV-4416A	Solenoid valve	ASCo	NP8320A183E	Stm tunnel	758'	H	M114/C8	E122/11	E328/D4	
SV-4416B	Solenoid valve	ASCo	NP8323A36V-DC	Stm tunnel	758'	H	M114/C8	E122/11	E328/D4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-4416C	Solenoid valve	ASCo	NP8323A36V-AC	Stm tunnel	758'	H	M114/C8	E122/11	E328/D4	
SV-4419A	Solenoid valve	ASCo	NP8320A183E	Stm tunnel	758'	H	M114/C2	E122/11	E328/E4	
SV-4419B	Solenoid valve	ASCo	NP8323A36V-DC	Stm tunnel	758'	H	M114/C2	E122/11	E328/E4	
SV-4419C	Solenoid valve	ASCo	NP8323A36V-AC	Stm tunnel	758'	H	M114/C2	E122/11	E328/E4	
SV-4421A	Solenoid valve	ASCo	NP8320A183E	Stm tunnel	758'	H	M114/E8	E122/11	E328/E4	
SV-4421B	Solenoid valve	ASCo	NP8323A36V-DC	Stm tunnel	758'	H	M114/E8	E122/11	E328/E4	
SV-4421C	Solenoid valve	ASCo	NP8323A36V-AC	Stm tunnel	758'	H	M114/E8	E122/11	E328/E4	
MO-4627	Motor-operated valve	Limitorque	SMB-2	Drywell	757'	H	M116/C2	E120/2	E331/F4	
MO-4628	Motor-operated valve	Limitorque	SMB-2	Drywell	734'	H	M116/C8	E120/3	E331/C5	
SV-4412A	Solenoid valve	ASCo	NP8320A183E	Drywell	758'	H	M114/F5	E121/11	E329/D3	
SV-4412B	Solenoid valve	ASCo	NP8323A36V-DC	Drywell	758'	H	M114/F5	E121/11	E329/D3	
SV-4412C	Solenoid valve	ASCo	NP8323A36V-AC	Drywell	758'	H	M114/G5	E121/11	E329/D3	
SV-4415A	Solenoid valve	ASCo	NP8320A183E	Drywell	758'	H	M114/C7	E121/11	E329/C3	
SV-4415B	Solenoid valve	ASCo	NP8323A36V-DC	Drywell	758'	H	M114/C7	E121/11	E329/C3	
SV-4415C	Solenoid valve	ASCo	NP8323A36V-AC	Drywell	758'	H	M114/C7	E121/11	E329/C3	
SV-4418A	Solenoid valve	ASCo	NP8320A183E	Drywell	758'	H	M114/C3	E121/11	E329/F3	
SV-4418B	Solenoid valve	ASCo	NP8323A36V-DC	Drywell	758'	H	M114/C3	E121/11	E329/F3	
SV-4418C	Solenoid valve	ASCo	NP8323A36V-AC	Drywell	758'	H	M114/C3	E121/11	E329/F3	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-4420A	Solenoid valve	ASCo	NP8320A183E	Drywell	758'	H	M114/E7	E122/11	E329/E3	
SV-4420B	Solenoid valve	ASCo	NP8323A36V-DC	Drywell	758'	H	M114/E7	E122/11	E329/E3	
SV-4420C	Solenoid valve	ASCo	NP8323A36V-AC	Drywell	758'	H	M114/E7	E122/11	E329/E3	
PS-4346	Pressure switch	Barksdale	D2T-M18SS	RB-N	757'-6"	H	M143/D5	E122/13	M405-2/E6	10
MO-2700	Gate valve (motor-operated)	Limitorque	SMB-00	Drywell	780'	H	M127/F8	E122/3	E330/D5	
MO-2701	Gate valve (motor-operated)	Limitorque	SMB-00	RWCU hxr	786'	H	M127/F7	E122/5	E321/E6	3
MO-2512	Gate valve (motor-operated)	Limitorque	SMB-00	Stm tunnel	757'	H	M125/D5	E121/40	E328/E3	3
MO-2516	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-S	717'	H	M125/B5	E121/33	E317/E6	7
MO-2517	Gate valve (motor-operated)	Limitorque	SMB-000	RCIC room	717'	H	M125/F4	E121/33	E317/C5	3
MO-2510	Globe valve (motor-operated)	Limitorque	SMB-00	RCIC room	717'	H	M125/C4	E121/34	E317/C5	3
MO-2400	Gate valve (motor-operated)	Limitorque	SMB-00	Drywell	777'	H	M124/H7	E121/29	E330/E3	
MO-2401	Gate valve (motor-operated)	Limitorque	SMB-00	Stm tunnel	757'	H	M124/H6	E121/30	E328/E4	3
SV-4371A	Solenoid valve	ASCo	831665	RB-S	758'	H	M143/E5	E122/24	E324/B5	1
SV-4371B	Solenoid valve	ASCo	NP831665E	Drywell	758'	H	M143/F5	E122/24	E329/B3	
SV-4371C	Solenoid valve	ASCo	831665	RB-S	759'	H	M143/F5	E122/24	E324/B5	1

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-4378A	Solenoid valve	ASCo	831665	RB-S	759'	H	M143/E5	E122/24	E324/B7	1
SV-4378B	Solenoid valve	ASCo	831665	RB-S	759'	H	M143/E8	E122/24	E324/B7	1
SV-5718A	Solenoid valve	ASCo	206-832-3RU	Torus rm-S	741'	H	M157/E8	E113/94	E317/E5	5,3
SV-5718B	Solenoid valve	ASCo	206-832-3RU	Torus rm-N	755'	H	M157/D8	E113/94	E316/C7	5,3
SV-5704A	Solenoid valve	ASCo	206-832-3RU	Torus rm-S	749'	H	M157/G6	E113/94	E317/E5	5,3
SV-5704B	Solenoid valve	ASCo	206-832-3RU	Torus rm-S	755'	H	M157/G6	E113/94	E317/G7	5,3
SV-5703A	Solenoid valve	ASCo	206-832-3RU	Torus rm-S	749'	H	M157/H7	E113/94	E317/E5	5,3
SV-5703B	Solenoid valve	ASCo	206-832-3RU	Torus rm-S	749'	H	M157/G7	E113/94	E317/G7	5,3
SV-5719A	Solenoid valve	ASCo	206-832-3RU	Torus rm-N	740'	H	M157/B7	E113/94	E317/E5	5,3
SV-5719B	Solenoid valve	ASCo	206-832-3RU	Torus rm-S	749'	H	M157/A7	E113/94	E316/C7	5,3
HS-4423	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/B3	E122/2	E338/D5	6
HS-4424	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/B3	E122/5	E338/D5	6
HS-2740	Hand switch	GE	SBM	CB ctl rm	786'	M	M127/	E122/14	E338/D5	6
HS-3728	Hand switch	GE	SBM	CB ctl rm	786'	M	M137/D7	E122/9	E338/D5	6
HS-3729	Hand switch	GE	SMB	CB ctl rm	786'	M	M137/D6	E122/9	E338/D5	6
HS-3704	Hand switch	GE	SBM	CB ctl rm	786'	M	M137/G7	E122/9	E338/D5	6
HS-3705	Hand switch	GE	SBM	CB ctl rm	786'	M	M137/G7	E122/9	E338/D5	6
HS-4841	Hand switch	GE	SBM	CB ctl rm	786'	M	M112/E3	E111/5	E338/E4	6
HS-4639	Hand switch	GE	SBM	CB ctl rm	786'	M	M116/F6	E122/10	E338/D5	6
HS-4640	Hand switch	GE	SBM	CB ctl rm	786'	M	M116/F7	E122/10	E338/D5	6
HS-4413A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/F2	E122/11	E338/D5	6
HS-4416A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/H8	E122/11	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-4419A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/H8	E122/11	E338/D5	6
HS-4421A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/H8	E122/11	E338/D5	6
HS-4412A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/F4	E122/11	E338/D5	6
HS-4415A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/H8	E122/11	E338/D5	6
HS-4418A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/H8	E122/11	E338/D5	6
HS-4420A	Hand switch	GE	SBM	CB ctl rm	786'	M	M114/H8	E122/11	E338/D5	6
HS-2700	Hand switch	GE	SBM	CB ctl rm	786'	M	M127/G8	E122/3	E338/D5	6
HS-2701	Hand switch	GE	SBM	CB ctl rm	786'	M	M127/G7	E122/5	E338/D5	6
HS-2512	Hand switch	GE	SMB	CB ctl rm	786'	M	M125/D5	E121/40	E338/D5	6
HS-2516	Hand switch	GE	SBM	CB ctl rm	786'	M	M125/B5	E121/33	E338/D5	6
HS-2517	Hand switch	GE	SBM	CB ctl rm	786'	M	M125/F4	E121/33	E338/D5	6
HS-2510	Hand switch	GE	SBM	CB ctl rm	786'	M	M125/C4	E121/34	E338/D5	6
HS-2400	Hand switch	GE	SBM	CB ctl rm	786'	M	M124/H7	E121/29	E338/D5	6
HS-2458	Hand switch	GE	CR2940	CB ctl rm	786'	M	M124/G7	E121/29	E338/D5	6
HS-2401	Hand switch	GE	SBM	CB ctl rm	786'	M	M124/H6	E121/30	E338/D5	6
HS-2459	Hand switch	GE	CR2940	CB ctl rm	786'	M	M124/G5	E121/30	E338/D5	6
HS-2481	Hand switch	GE	CR2940	CB ctl rm	786'	M	M124/G5	E121/30	E338/D5	6
HS-4371A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M143/E5	E122/24	E338/D6	6
HS-4371B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M143/F5	E122/24	E338/D6	6
HS-4371C	Hand switch	GE	CR2940	CB ctl rm	786'	M	M143/F5	E122/24	E338/D6	6
HS-4378A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M143/E5	E122/24	E338/D6	6
HS-4378B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M143/E5	E122/24	E338/D6	6
HS-5718A	Hand switch	GE	SBM	CB ctl rm	786'	M	M157/E8	E113/90	E338/D4	6
HS-5718B	Hand switch	GE	SBM	CB ctl rm	786'	M	M157/D8	E113/90	E338/D4	6
PDIS-4641	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M116/H3	E121/56	E319/E5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PDIS-4642	Pressure differential indicating switch	Barton	288	RB-N	757'-6'	M	M116/G3	E121/56A	E318/F4	6
PDIS-4643	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M116/G3	E121/56	E319/E5	6
PDIS-4644	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M116/G3	E121/56A	E318/F4	6
PS-4637	Pressure switch	Barksdale	B2T-MRSS	RB-S	757'-6"	M	M116/E6	E121/10	E319/E5	6
PS-4638A (B31-N018)	Pressure switch	Barksdale	PIH-M34055-V	SW crnr rm	716'-9"	M	M116/E6	E121/56A	E317/D7	6
PS-4638B (B31-N018)	Pressure Switch	Barksdale	PIH-M34055-V	SW crnr rm	716'-9"	M	M116/E6	E121/56A	E317/D7	6
PDIS-4625A	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9'	M	M116/A3	E121/56	E316/E2	6
PDIS-4625B	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A3	E121/56	E316/E2	6
PDIS-4625C	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A3	E121/56	E316/E2	6
PDIS-4625D	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A2	E121/56	E316/E2	6
PDIS-4626A	Pressure differntial indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A7	E121/56A	E317/D7	6
PDIS-4626B	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A7	E121/56A	E317/D7	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PDIS-4626C	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A7	E121/56A	E317/D7	6
PDIS-4626D	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A8	E121/56A	E317/D7	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
FM-8408A (B21-N923A)	Flowmeters	S.K. Instrument	20-9651-8550	Stm tunnel	777'	H	M184/F4	E122/37	E328/B5	3
FM-8408B (B21-N923B)	Flowmeters	S.K. Instrument	20-9651-8550	Stm tunnel	777'	H	M184/C6	E122/37	E328/B5	3
FM-8408C (B21-N923C)	Flowmeters	S.K. Instrument	20-9651-8550	Stm tunnel	777'	H	M184/C3	E122/37	E328/B5	3
FM-8408D (B21-N923D)	Flowmeters	S.K. Instrument	20-9651-8550	Stm tunnel	777'	H	M184/F8	E122/37	E328/B5	3
MO-8401A (B21-F920A)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/F3	E122/38	E328/B6	22
MO-8401B (B21-F920B)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/C8	E122/38	E328/B6	22
MO-8401C (B21-F920C)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/C3	E122/38	E328/B6	22
MO-8401D (B21-F920D)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/F8	E122/38	E328/B6	22
MO-8402A (B21-F921A)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/F3	E122/38	E328/B6	22
MO-8402B (B21-F921B)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/C8	E122/38	E328/B6	22
MO-8402C (B21-F921C)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/C3	E122/38	E328/	22
MO-8402D (B21-F921D)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	757'	H	M184/F8	E122/38	E328/B6	22
MO-8403A (B21-F92A)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	763'	H	M184/F4	E122/38	E328/B5	22
MO-8403B (B21-F92B)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	763'	H	M184/C8	E122/38	E328/B4	22
MO-8403C (B21-F92C)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	763'	H	M184/C3	E122/38	E328/B4	22
MO-8403D (B21-F92D)	Motor-operated valve	Limitorque	SMB-000	Stm tunnel	763'	H	M184/F8	E122/38	E328/B4	22
1K-25A (B21-C918A)	Blower (motor-operated)	Allis-Siemens	2CH6-041-U	A CRD rr	777'	H	M184/C5	E122/37	M644/C6	3

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1K-25B (B21-C918B)	Blower (motor-operated)	Allis-Siemens	2CH6-041-U	A CRD rr	777'	H	M184/C5	E122/37	M644/C6	3
1S-122A (B21-H926A)	Heater	GE	5A356W020	Stm tunnel	757'	H	M184/F4	E122/37	E328/	3
1S-122B (B21-H926B)	Heater	GE	5A356W020	Stm tunnel	757'	H	M184/B8	E122/37	E328/	3
1S-122C (B21-H926C)	Heater	GE	5A356W020	Stm tunnel	757'	H	M184/B3	E122/37	E328/	3
1S-122D (B21-H926D)	Heater	GE	5A356W020	Stm tunnel	757'	H	M184/E8	E122/37	E328/	3
PS-8404A (B21-N913A)	Pressure switch	Barksdale	159C4606 P001-002	A CRD rr	767'	M	M184/G3	E122/37	M405-2/E5	6
PS-8404B (B21-N913B)	Pressure switch	Barksdale	159C4606 P001-002	A CRD rr	767'	M	M184/C8	E122/37	M405-2/E5	6
PS-8404C (B21-N913C)	Pressure switch	Barksdale	159C4606 P001-002	A CRD rr	767'	M	M184/F3	E122/37	M405-2/E5	6
PS-8404D (B21-N913D)	Pressure switch	Barksdale	159C4606 P001-002	A CRD rr	767'	M	M184/F8	E122/37	M405-2/E5	6
PS-8415A (B21-N046A)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M184/G2	E122/37	M405-2/E7	16
PS-8415B (B21-N046B)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M184/C8	E122/37	M405-2/E7	16
PS-8415C (B21-N046C)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M184/F3	E122/37	M405-2/E7	16
PS-8415D (B21-N046D)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M184/F8	E122/37	E405-2/E7	16
HS-8418 (B21-S5)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/G5	E122/37	M405-2/F6	6
HS-8417A (B21-S3A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/G4	E122/37	M405-3/F6	6
HS-8417B (B21-S3B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/C8	E122/37	M405-3/F6	6
HS-8417C (B21-S3C)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F3	E122/37	M405-3/F6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-8417D (B21-S3D)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F8	E122/37	M405-3/F6	6
HS-8401A (B21-S1A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/G3	E122/38	M405-3/F6	6
HS-8401B (B21-S1B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/C8	E122/38	M405-3/F6	6
HS-8401C (B21-S1C)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F3	E122/38	M405-3/F6	6
HS-8401D (B21-S1D)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F8	E122/38	M405-3/F6	6
HS-8402A (B21-S2A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/G3	E122/37	M405-3/F6	6
HS-8402B (B21-S2B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/C8	E122/37	M405-3/F6	6
HS-8402C (B21-S2C)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F3	E122/37	M405-3/F6	6
HS-8402D (B21-S2D)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F8	E122/37	M405-3/F6	6
HS-8403A (B21-S4A)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M184/G4	E122/37	M405-3/F6	6
HS-8403B (B21-S4B)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M184/C8	E122/37	M405-3/F6	6
HS-8403C (B21-S4C)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M184/F3	E122/37	M405-3/F6	6
HS-8403D (B21-S4D)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M184/F8	E122/37	M405-3/F6	6
HS-8413 (B21-S6)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/D5	E122/37	M405-3/F6	6
HS-8410 (B21-S7)	Hand switch	GE	SBM	CB ctl rm	786'	M	M184/F5	E122/37	M405-3/F6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-218	HPCI turbine auxiliary oil pump motor			HPCI room	716'-9"	H	M122/G4	E121/13	E317/C2	9
1P-219	HPCI turbine condensate pump motor			HPCI room	716'-9"	H	M122/B3	E121/12	E317/C3	9
MO-2290A	Motor-operated valve	Limitorque	SMB-000	Torus rm-S	741'	H	M122/B8	E121/23A	E317/D5	7
MO-2290B	Motor-operated valve	Limitorque	SMB-000	Torus rm-S	741'	H	M122/B8	E121/23A	E317/D5	7
MO-2247	Motor-operated valve	Limitorque	SMB-000	HPCI room	716'-9"	H	M122/D5	E121/16	E317/C3	3
MO-2202	Motor-operated valve	Limitorque	SMB-2	HPCI room	716'-9"	H	M122/F3	E121/16	E317/C3	3
MO-2238	Motor-operated valve	Limitorque	SMB-2	Drywell	781'	H	M122/G6	E121/14	E330/B5	
MO-2239	Motor-operated valve	Limitorque	SMB-3	Stm tunnel	763'	H	M122/G5	E121/15	E328/D4	3
MO-2321	Motor-operated valve	Limitorque	SMB-00	Torus rm-S	716'-9"	H	M123/A7	E121/23	E317/D4	3
MO-2300	Motor-operated valve	Limitorque	SMB-00	HPCI room	716'-9"	H	M123/F4	E121/17	E317/C4	3
MO-2318	Motor-operated valve	Limitorque	SMB-0	HPCI room	716'-9"	H	M123/C5	E121/21	E317/C4	3
1P-233	HPCI turbine gland seal vacuum pump motor	GE	5CD14D13 A900019	HPCI room	716'-9"	M	M123/B3	E121/11	E317/C3	9
MO-2312	Motor-operated valve	Limitorque	SMB-3	Stm tunnel	763'	H	M123/D6	E121/18	E328/D3	3
MO-2311	Motor-operated valve	Limitorque	SMB-3	HPCI room	716'-9"	H	M123/D6	E121/16	E317/C4	3
MO-2315	Motor-operated valve	Limitorque	SMB-3	HPCI room	736'	H	M123/E6	E121/19	E317/C4	3
MO-2322	Motor-operated valve	Limitorque	SMB-00	HPCI room	716'-9"	H	M123/F4	E121/22	E317/C4	3

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-2259	Solenoid valve			HPCI room	716'-9"	M	M122/G3	E121/25	E317/C3	9
SV-2219	Solenoid valve	Target Rock	72V-001	HPCI room	716'-9"	H	M122/C4	E121/26	E317/C3	9
LS-2206	Level switch	Robert Shaw	82938-G-1	HPCI room	725'	H	M122/E2	E121/25	E317/C3	9
LS-2319	Level switch	Robert Shaw	83841-A2	Torus rm-N	725'	H	M123/A8	E121/24	E316/D8	9
LS-2320	Level switch	Robert Shaw	83841-A2	Torus rm-N	725'	H	M123/A8	E121/24	E316/D8	9
MO-2316	Motor-operated valve	Limitorque	SMB-0	HPCI room	716'-9"	H	M123/E6	E121/20	E317/C4	3
SV-2206	Solenoid valve	ASCo	206-381-2RU	HPCI room	716'-9"	H	M122/E2	E121/26	E317/C3	5,3
SV-2211	Solenoid valve	ASCo	206-381-1F	HPCI room	716'-9"	H	M122/D2	E121/26	E317/C3	5,3
SV-2212	Solenoid valve	ASCo	206-381-1F	HPCI room	716'-9"	H	M122/D2	E121/26	E317/C3	5,3
SV-2234	Solenoid valve	ASCo	206-381-2RU	HPCI room	716'-9"	H	M122/C5	E121/26	E317/A3	5,3
SV-2235	Solenoid valve	ASCo	206-381-2RU	HPCI room	716'-9"	H	M122/C5	E121/26	E317/A3	5,3
E/S-2257 (E41-K602)	Power supply	GE	570062BAA1	CB ctl rm	786'	M	M122/A6	E121/25	E338/D5	6
ZS-2201	Position switch			HPCI room	716'-9"	M	M122/E3	E121/26	E317/C3	6
PS-2288	Pressure switch	Static-O-Ring	6N-AA21V	HPCI room	716'-9"	M	M122/H3	E121/13	E317/C3	6
LS-2222A	Level switch	Robert Shaw	83841-A2	HPCI room	716'-9"	M	M122/C3	E121/24	E317/C3	6
LS-2222B	Level switch	Robert Shaw	83841-A2	HPCI room	716'-9"	M	M122/C3	E121/25	E317/C3	6
LS-2219	Level switch	Robert Shaw	82938-G-1	HPCI room	716'-9"	H	M122/D4	E121/25	E317/B3	9
1S-201	Turbine	Terry Turbine	205AA872 Type CCS	HPCI room	716'-9"	H	M122/E3	E121/25	E317/C3	9
HS-2222 (E41-NA)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/B2	E121/12	E328/D5	6
HS-2247 (E41-F059)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/D5	E121/16	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-2202 (E41-F001)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/F3	E121/16	E338/D5	6
HS-2238 (E41-F002)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/H6	E121/14	E338/D5	6
HS-2239 (E41-F003)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/H5	E121/15	E338/D5	6
HS-2321 (E41-F042)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/A7	E121/23	E338/D5	6
HS-2300 (E41-S4)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/F3	E121/17	E338/D5	6
HS-2318 (E41-F011)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/C5	E121/21	E338/D5	6
HS-2221 (E41-S21)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/B2	E121/11	E338/D5	6
HS-2312 (E41-F006)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/D6	E121/18	E338/D5	6
HS-2311 (E4-F007)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/D6	E121/16	E338/D5	6
HS-2315 (E41-F008)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/E6	E121/19	E338/D5	6
HS-2322 (E41-F041)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/F4	E121/22	E338/D5	6
HS-2259 (E41-S19)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/B5	E121/25	E338/D5	6
HS-2219 (E41-F023)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/D4	E121/26	E338/D5	6
HS-2206 (E41-S14)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/E2	E121/25	E338/D5	6
HS-2316 (E41-F012)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/E6	E121/20	E338/D5	6
HS-2211 (E41-F028)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/D2	E121/25	E338/D5	6
HS-2212 (E41-S2B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/D2	E121/25	E338/D5	6
HS-2234 (E41-S13)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/B5	E121/25	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-2235 (E41-F026)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/B6	E121/25	E338/D5	6
HS-2256 (E41-NA)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/H4	E121/13	E338/D5	6
HS-2299 (E41-S25)	Hand switch	GE	SBM	CB ctl rm	786'	M	M122/A5	E121/25	E338/D5	6
HS-2253 (E41-S17)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/B7	E121/25	E338/D5	6
HS-2257 (E41-S23)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/B6	E121/25	E338/D5	6
HS-2273 (E41-R604)	Hand switch	Bourns		CB ctl rm	786'	M	M122/A6	E121/25	E338/D5	6
HS-2258 (E41-S23)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/A7	E121/25	E338/D5	6
FT-2309 (E41-N008)	Flow transmitter	GE	555-111BC AA3PDG	HPCI room	716'-9"	H	M123/C5	E121/25	E338/E4	9
E/S-2309	Power supply	GE	54C	CB ctl rm	786'	M	M123/C5	E121/25	E338/C5	6
FY-2309	Square Root Converter	GE	565	CB ctl rm	786'	M	M123/C5	E121/25	E338/D5	6
FIC-2309 (E41-R600)	Flow controller	GE	45001	CB ctl rm	786'	M	M123/C5	E121/25	E338/D5	6
PS-2215A (E41-N012)	Pressure switch	Static-O-Ring	6N-AA2	HPCI room	716'-9"	H	M122/D6	E121/24	E317/B4	9
PS-2215B (E41-N012)	Pressure switch	Static-O-Ring	6N-AA2	HPCI room	716'-9"	H	M122/D6	E121/24	E317/B4	9
PS-2215C (E41-N012)	Pressure switch	Static-O-Ring	6N-AA2	HPCI room	716'-9"	H	M122/D6	E121/24	E317/B4	9
PS-2215D (E41-N012)	Pressure switch	Static-O-Ring	6N-AA2	HPCI room	716'-9"	H	M122/D6	E121/24	E317/B4	9
PS-2233A (E41-N017)	Pressure switch	Static-O-Ring	5N-AA3	HPCI room	716'-9"	H	M122/D4	E121/24	E317/B4	9
PS-2233B (E41-N017)	Pressure switch	Static-O-Ring	5N-AA3	HPCI room	716'	H	M122/D4	E121/24	E317/B4	9
LS-5218	Level switch	B/W Controllers Group	E-IF/SO-201	Outside TB	757'-6"	M	M109/E4	E108/18	E354/GH	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LS-5219	Level switch	B/W Controllers Group	E-IF/SO-201	Outside TB	757'-6"	M	M109/E5	E108/18	E354/GH	6
FS-2310	Flow switch	Barton	289	HPCI room	716'-9"	H	M123/C5	E121/24	E317/B4	9
FS-2309 (E41-N008)	Flow switch	GE	555-111BCAA 3PDG	HPCI room	716'-9"	H	M123/NS	E121/25	E317/B4	9
PS-2304B	Pressure switch	Static-O-Ring	6N-AA21VX 9STT	HPCI room	716'-9"	H	M123/E3	E121/25	E317/B4	9
PS-2324	Pressure switch	Barksdale	B2T-M1255	HPCI room	716'-9"	H	M123/C4	E121/21	E317/B4	9
PS-2304A	Pressure switch	Static-O-Ring	6N-AA21VX 9STT	HPCI room	716'-9"	M	M123/F3	E121/24	E317/B4	9

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-4400	Solenoid valve	Automatic Valve Co	C5450-5	Drywell	783'	H	M114/F5	E121/2	E330/C4	3,12
SV-4405	Solenoid valve	Automatic Valve Co	C5450-5	Drywell	783'	H	M114/D4	E121/2	E330/F4	3,12
SV-4402	Solenoid valve	Automatic Valve Co	C5450-5	Drywell	783'	H	M114/D6	E121/2	E330/B4	3,12
SV-4406	Solenoid valve	Automatic Valve Co	C5450-5	Drywell	783'	H	M114/F5	E121/2	E330/F4	3,12
HS-4400 (B31-S1A)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M114/F5	E121/2	E338/D5	6
HS-4405 (B31-S1D)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M114/D4	E121/2	E338/D5	6
HS-4402 (B31-S1B)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M114/D6	E121/2	E338/D5	6
HS-4406 (B31-S1D)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M114/F6	E121/2	E338/D5	6
LIS-4561 (B21-N042)	Level indicating switch	Yarway	4418C	RB-N	786'	M	M115/E6	E121/2	E320/D4	6
LIS-4562 (B21-N042)	Level indicating switch	Yarway	4418C	RB-N	757'6"	M	M115/E3	E121/2	E318/E6	6
PS-4310A	Pressure switch	Static-O-Ring	12N-AA5	RB-S	757'-6"	M	M143/D7	E121/2	E319/E5	6
PS-4311A	Pressure switch	Static-O-Ring	12N-AA5	SW crnr rm	716'-9"	M	M143/E6	E121/2	E317/D7	6
PS-4312A (E11-N010)	Pressure switch	Static-O-Ring	12N-AA5	RB-S	757'-6"	M	M143/E6	E121/2	E319/G5	6
PS-4313A	Pressure switch	Static-O-Ring	12N-AA5	RB-N	757'-6"	M	M143/F6	E121/2	E318/F4	6
PS-1917A (E11-N020)	Pressure switch	Static-O-Ring	5N-AA3	NW crnr rm	716'-9"	H	M119/B6	E121/56	E316/E7	14
PS-1917B (E11-N020)	Pressure switch	Static-O-Ring	12N-AA5	NW crnr rm	716'-9"	H	M119/B6	E121/56	E316/E7	14
PS-1925A (E11-N020)	Pressure switch	Static-O-Ring	5N-AA3	NW crnr rm	716'-9"	H	M119/B7	E121/56	E316/E7	14
PS-1925B (E11-N016)	Pressure switch	Static-O-Ring	12N-AA5	NW crnr rm	716'-9"	H	M119/B7	E121/56	E316/E7	14

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PS-2024A (E11-N020)	Pressure switch	Static-O-Ring	5N-AA3	SE crnr rm	761'-9"	H	M120/B2	E121/56	E316/E7	14
PS-2024B (E11-N016)	Pressure switch	Static-O-Ring	5N-AA3	SE crnr rm	716'-9"	H	M120/B2	E121/56	E316/E7	14
PS-2023A (E11-N020)	Pressure switch	Static-O-Ring	5N-AA3	SE crnr rm	716'-9"	H	M120/B4	E121/56	E316/E7	14
PS-2023B (E11-N016)	Pressure switch	Static-O-Ring	12N-AA5	SE crnr rm	716'-9"	H	M120/B4	E121/56	E316/E7	14
PS-2107A (E11-N008)	Pressure switch	Static-O-Ring	5N-AA3	SE crnr rm	716'-9"	H	M121/E3	E121/9	E317/D3	14
PS-2107B (E11-N009)	Pressure switch	Static-O-Ring	5N-AA3	SE crnr rm	716'-9"	H	M121/D3	E121/9	E317/D3	14
PS-2127A (E21-N008)	Pressure switch	Static-O-Ring	5N-AA3	NW crnr rm	716'-9"	H	M121/C5	E121/10	E316/E7	14
PS-2127B (E21-N009)	Pressure switch	Static-O-Ring	5N-AA3	NW crnr rm	716'-9"	H	M121/C5	E121/10	E316/E7	14
KY-4405	Time delay			CB ctl rm	786'	M	M114/D4	E122/2		6
KY-4402	Time delay			CB ctl rm	786'	M	M114/D6	E122/2		6
KY-4406	Time delay			CB ctl rm	786'	M	M114/F6	E122/2		6
KY-4400	Time delay			CB ctl rm	786'	M	M114/F4	E122/2		6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-211A (E21-C001)	Core spray pumps and motors	GE	5K6336 XC229A	SE crnr rm	716'	H	M121/C3	E121/3	E317/D2	3
1P-211B (E21-C001)	Core spray pumps and motors	GE	5K6336 XC229A	NW crnr rm	716'	H	M121/C4	E121/3	E316/F8	3
MO-2117 (E21-F005A)	Gate valve (motor-operated)	Limitorque	SMB-2	RWCU hxr	786'	H	M121/G6	E121/5	E321/E5	4
MO-2115 (E21-F004A)	Gate valve (motor-operated)	Limitorque	SMB-0	RB-S	786'	H	M121/G5	E121/8	E321/D5	4
MO-2137 (E21-F005B)	Gate valve (motor-operated)	Limitorque	SMB-2	RB-N	786'	H	M121/E6	E121/8	E320/E5	4
MO-2135 (E21-F004B)	Gate valve (motor-operated)	Limitorque	SMB-0	RB-N	786'	H	M121/E5	E121/8	E320/F5	4
MO-2132 (E21-F015B)	Globe valve (motor-operated)	Limitorque	SMB-1	Torus rm-N	750'	H	M121/E5	E121/7	E316/F5	7
MO-2112 (E21-F015A)	Globe valve (motor-operated)	Limitorque	SMB-1	Torus rm-S	753'	H	M121/F5	E121/7	E317/D5	7
MO-2124 (E21-F031B)	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	750'	H	E121/D4	E121/6	E316/F6	7
MO-2146 (E21-F038A)	Gate valve (motor-operated)	Limitorque	SMB-00	Torus rm-N	725'	H	M121/C5	E121/4	E316/C7	7
MO-2147 (E21-F038B)	Gate valve (motor-operated)	Limitorque	SMB-00	Torus rm-S	716'	H	M121/B5	E121/4	E317/D5	7
MO-2120 (E21-F001B)	Gate valve (motor-operated)	Limitorque	SMB-00	NW crnr rm	717'	H	M121/85	E121/4	E316/D8	4
MO-2100 (E21-F001A)	Gate valve (motor-operated)	Limitorque	SMB-00	SE crnr rm	717'	H	M121/B5	E121/4	E317/D3	4

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
MO-2104 (E21-F031A)	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-S	716'	H	M121/D4	E121/6	E317/E5	7
FIS-2131 (E21-N006B)	Flow indicating switch	Barton	289	NW crnr rm	716'	H	M121/G5	E121/6	E318/D3	3
FIS-2111 (E21-N006A)	Flow indicating switch	Barton	289	NW crnr rm	716'	H	M121/F5	E121/6	E316/E7	3
HS-2103 (E21-S5A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/C3	E121/3	E338/D5	6
HS-2123 (E21-S5B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/C4	E121/3	E338/D5	6
HS-2117 (E21-S1A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/G6	E121/5	E338/D5	6
HS-2115 (E21-S2A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/G5	E121/8	E338/D5	6
HS-2137 (E21-S1B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/E6	E121/5	E338/D5	6
HS-2135 (E21-S2B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/E5	E121/8	E338/D5	6
HS-2132 (E21-S4B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M123/E5	E121/7	E338/D5	6
HS-2112 (E21-F015A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/F5	E121/7	E338/D5	6
HS-2124 (E21-S3B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/D4	E121/6	E338/D5	6
HS-2146 (E21-58B)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M121/C5	E121/4	E338/D5	6
HS-2147 (E21-58A)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M121/B5	E121/4	E338/D5	6
HS-2120 (E21-S7B)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M121/B5	E121/4	E338/D5	6
HS-2100 (E21-S7A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/B5	E121/4	E338/D5	6
HS-2104 (E21-S3A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M121/D3	E121/6	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-229A (E11-C002)	RHR pump drives	GE	5K6336 XC213A	SE crnr rm	716'	H	M120/B3	E121/41	M1/C5	3
1P-229B (E11-C002)	RHR pump drives	GE	5K6336 XC213A	NW crnr rm	716'	H	M119/B7	E121/41	M1/F7	3
1P-229C (E11-C002)	RHR pump drives	GE	5K6336 XC213A	SE crnr rm	716'	H	M120/B2	E121/41	M1/C5	3
1P-229D (E11-C002)	RHR pump drives	GE	5K6336 XC213A	NW crnr rm	716'	H	M119/B8	E121/41	M1/F7	3
PDIS-1971A (E11-N021)	Pressure differential switch	Barton	289	SE crnr rm	716'	H	M120/F7	E121/54	M405-1/C5	3,16
PDIS-1971B (E11-N021)	Pressure differential switch	Barton	289	NW crnr rm	717'	H	M120/F7	E121/54	M405-1/C5	3,16
MO-1900	Gate valve (motor-operated)	Limitorque	SMB-00	Drywell	811'-6"	H	M119/G8	E122/2	M330/D4	
MO-1901	Globe valve (motor-operated)	Limitorque	SMB-0	RB-N	786'	H	M119/H7	E122/6	M249/D6	3
MO-1902	Gate valve (motor-operated)	Limitorque	SMB-2	RHR vlv rm	770'	H	M119/G7	E121/48	M248/C6	4
MO-1903	Globe valve (motor-operated)	Limitorque	SMB-2	Torus rm-N	750'	H	M119/G6	E121/60	M226/H8	7
MO-1904	Angle valve (motor-operated)	Electrodyne	TN-24-400	RB-S	757'-6"	M	M119/E6	E121/53	M268/G7	6
MO-1905	Gate valve (motor-operated)	Limitorque	SMB-5	RHR vlv rm	757'	H	M119/F6	E121/52	M268/G7	4
MO-1908	Gate valve (motor-operated)	Limitorque	SMB-2	Drywell	757'	H	M119/E8	E122/56	M331/D6	
MO-1909	Gate valve (motor-operated)	Limitorque	SMB-2	RHR vlv rm	757'	H	M119/E8	E122/4	M248/D7	3

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
MO-1932	Gate valve (motor-operated)	Limitorque	SMB-0	Torus rm-S	745'	H	M119/F5	E121/49	M226/G7	7
MO-1933	Globe valve (motor-operated)	Limitorque	SMB-00	Torus rm-S	745'	H	M119/F5	E121/59	M266/G7	7
MO-1934	Globe valve (motor-operated)	Limitorque	SMB-2	Torus rm-S	750'	H	M119/F5	E121/59	M266/G7	7
TE-2082A	Temperature element	NECI	N145C3023 PO51	SE crnr rm	731'	H	M120/	E124/7	M660/E3	2
TE-2082B	Temperature element	NECI	N145C3023 PO51	NW crnr rm	748'	H	M120/	E124/7	M646/E7	2
TE-2084A	Temperature element	NECI	N145C3023 PO51	SE crnr rm	754'	H	M120/	E124/7	M661/E3	2
TE-2084B	Temperature element	NECI	N145C3023 PO51	Torus rm-N	743'	H	M120/	E124/7	M646/E6	2
TE-2083A	Temperature element	NECI	N145C3023 PO51	HPCI room	725'	H	M120/	E124/7	M661/D2	2
TE-2083B	Temperature element	NECI	N145C3023 PO51	RB-N	765'	H	M120/	E124/7	M644/F7	2
MO-1989	Gate valve (motor-operated)	Limitorque	SMB-0	Torus rm-N	716'	H	M119/D7	E121/45	M245/E7	7
MO-1937	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	750'	H	M119/D6	E122/15	M316/8C	3
MO-1936	Globe valve (motor-operated)	Limitorque	SMB-00	Torus rm-N	750'	H	M119/D6	E122/7	M316/8C	7
MO-1920	Gate valve (motor-operated)	Limitorque	SMB-00	NW crnr rm	716'	H	M119/C8	E121/44	M316/F7	4
MO-1921	Gate valve (motor-operated)	Limitorque	SMB-00	NW crnr rm	740'	H	M119/C7	E121/43	M316/	4
MO-1913	Gate valve (motor-operated)	Limitorque	SMB-00	NW crnr rm	720'	H	M119/C7	E121/43	E310/F7	4

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
MO-1912	Gate valve (motor-operated)	Limitorque	SMB-00	NW crnr rm	716'	H	M119/C7	E121/44	M405-1/F7	4
MO-1935	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	750'	H	M119/C5	E121/54	M256/D3	7
MO-1940	Globe valve (motor-operated)	Limitorque	SMB-4	NW crnr rm	740'	H	M119/E4	E121/51	M256/C2	4
MO-1939	Gate valve (motor-operated)	Limitorque	SMB-0	NW crnr rm	734'	H	M119/D4	E121/43	M253/C7	4
MO-1941	Gate valve (motor-operated)	Limitorque	SMB-0	NW crnr rm	734'	H	M119/E3	E121/43	M253/C7	4
MO-1949A	Globe valve (motor-operated)	Limitorque	SMB-000	NW crnr rm	747'	H	M119/C4	E121/47	E316/E8	4
MO-1949B	Globe valve (motor-operated)	Limitorque	SMB-000	NW crnr rm	747'	H	M119/D4	E121/47	E316/E8	4
SV-1972	Solenoid valve	Target Rock	72V-001	NW crnr rm	716'	H	M119/D3	E122/13	M405-1/F7	4
SV-1973	Solenoid valve	Target Rock	72V-001	NW crnr rm	716'	H	M119/D2	E122/13	M405-1/F7	4
SV-1963	Solenoid valve	ASCo	8320-A6	NW crnr rm	734'	H	M119/D3	E121/58	M246/E8	1
SV-1964	Solenoid valve	ASCo	NP8320A173E	Torus rm-S	740'	H	M119/D2	E121/58	M277/C5	5,3
SV-1966	Solenoid valve	ASCo	8320-A6	NW crnr rm	736'	H	M119/E3	E121/58	M246/E7	1
MO-1967	Gate valve (motor-operated)	Limitorque	SMB-000	NW crnr rm	734'	H	M119/E2	E121/50	M246/E7	4
MO-1970	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	750'	H	M119/F3	E121/50	M246/E7	7

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
MO-2000	Gate valve (motor-operated)	Limitorque	SMB-2	RB-S	786'	H	M120/G2	E121/48	M269/F6	4
MO-2001	Globe valve (motor-operated)	Limitorque	SMB-2	Torus rm-N	755'	H	M120/G4	E113/89	M257/D7	7
MO-2003	Gate valve (motor-operated)	Limitorque	SMB-5	RHR vlv rm	765'	H	M120/G4	E121/52	M248/D7	4
MO-2004	Angle valve (motor-operated)	Limitorque	SMB-0	RHR vlv rm	757'	H	M120/F4	E121/53	M248/E7	4
MO-2005	Gate valve (motor-operated)	Limitorque	SMB-0	Torus rm-N	741'	H	M120/G4	E121/49	M256/D3	7
MO-2006	Globe valve (motor-operated)	Limitorque	SMB-00	Torus rm-N	741'	H	M120/F4	E121/59	M246/D7	7
MO-2007	Globe valve (motor-operated)	Limitorque	SMB-2	Torus rm-N	750'	H	M120/F5	E121/59	M256/D3	7
MO-2010	Gate valve (motor-operated)	Limitorque	SMB-1	Torus rm-N	750'	H	M120/D5	E121/45	E316/C8	7
MO-2069	Gate valve (motor-operated)	Limitorque	SMB-0	Torus rm-S	716'	H	M120/D3	E121/45	M265/F3	7
MO-2038	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-S	741'	H	M120/F7	E121/50	M277/D5	7
MO-2036	Gate valve (motor-operated)	Limitorque	SMB-000	SE crnr rm	734'	H	M120/E8	E121/50	M277/C3	4
SV-2037	Solenoid valve	ASCo	8320-A6	SE crnr rm	734'	H	M120/E7	E121/58	E317/E3	1
MO-2031	Gate valve (motor-operated)	Limitorque	SMB-0	SE crnr rm	734'	H	M120/E7	E121/43	M277/C2	4

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
MO-2030	Globe valve (motor-operated)	Limitorque	SMB-00	SE crnr rm	734'	H	M120/E5	E121/51	M277/C2	4
MO-2029	Gate valve (motor-operated)	Limitorque	SMB-0	SE crnr rm	732'	H	M120/D5	E121/43	M277/C2	4
SV-2033	Solenoid valve	Asco	8320-A6	SE crnr rm	745'	H	M120/D7	E121/58	M255/C8	1
SV-2034	Solenoid valve	Asco	NP8320A173E	Torus rm-S	750'	H	M120/D7	E121/58	M405-1/C6	5
SV-2051	Solenoid valve	Target Rock	72V-001	SE crnr rm	720'	H	M120/D7	E121/13	M405-1/C5	4
SV-2052	Solenoid valve	Target Rock	72V-001	SE crnr rm	719'	H	M120/D7	E122/13	M405-1/C5	4
MO-2044A	Globe valve (motor-operated)	Limitorque	SMB-000	SE crnr rm	749'	H	M120/C6	E121/47	M405-1/C5	4
MO-2044B	Gate valve (motor-operated)	Limitorque	SMB-000	SE crnr rm	751'	H	M120/C6	E121/47	M405-1/C5	4
MO-2009	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-S	741'	H	M120/C4	E121/54	M277/D5	7
MO-2011	Gate valve (motor-operated)	Limitorque	SMB-00	SE crnr rm	716'	H	M120/C3	E121/44	M265/F2	4
MO-2012	Gate valve (motor-operated)	Limitorque	SMB-00	SE crnr rm	716'	H	M120/C3	E121/43	E317/E2	4
MO-2015	Gate valve (motor-operated)	Limitorque	SMB-00	SE crnr rm	716'	H	M120/C2	E121/43	E317/E2	4
MO-2016	Gate valve (motor-operated)	Limitorque	SMB-00	SE crnr rm	716'	H	M120/C2	E121/44	M317/E2	4
HS-1932A	Control switch (local-mounted)	GE	CR2940	RB-N	757'	M	M119/F5	E121/49	M266/G7F7	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-1921A	Control switch (local-mounted)	C-H	1025T16224	RB-N	757'	M	M119/C7	E121/43A	E316/	6
HS-1913A	Control switch (local-mounted)	C-H	1025T16224	RB-N	757'	M	M119/C7	E121/43A	M245/F7	6
HS-2005A	Control switch (local-mounted)	C-H	1025T16224	RB-S	757'	M	M120/F5	E121/49	M256/D3	6
HS-2010A	Control switch (local-mounted)	C-H	1025T16224	RB-S	757'	M	M120/F5	E121/45A	E316/C8	6
HS-2012A	Control switch (local-mounted)	C-H	1025T16224	RB-S	757'	M	M120/C3	E121/43A		6
HS-2015A	Control switch (local-mounted)	C-H	1025T16224	RB-S	757'	M	M120/C2	E121/43A	E317/E2	6
HS-2011A	Control switch (local-mounted)	GE	CR2940	RB-S	757'	M	NS	E121/44	M265/F2	6
HS-1912A	Control switch (local-mounted)	GE	CR2940	RB-N	757'	M	NS	E121/44	E316/E2	6
HS-2016A	Control switch (local-mounted)	GE	CR2940	RB-S	757'	M	NS	E121/44	E317/E2	6
HS-1920A	Control switch (local-mounted)	GE	CR2940	RB-N	757'	M	NS	E121/44	E316/F7	6
KY-1935	Relay			CB ctl rm	786'	M	M119/C5	E121/54	E338/C6	6
KY-2009	Relay			CB ctl rm	786'	M	M120/C4	E121/54	E338/D6	6
E/S-1947	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M119/D4	E121/58	E338/C5	6
KY-1940	Relay	GE		CB ctl rm	786'	M	M119/E4	E121/51	E338/C6	6
HS-1923	Hand switch	GE	SBM	CB ctl rm	786'	M	M119-B8	E121/41	E338/D5	6
HS-2014 (E11-F004)	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/B3	E121/41	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-2018	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/B2	E121/41	E338/D5	6
HS-1915	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/B6	E121/41	E338/D5	6
HS-1900	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/G8	E122/2	E338/D5	6
HS-1901 (E11-F023)	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/H7	E122/6	E338/D5	6
HS-1902	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/G7	E121/48	E338/D5	6
HS-1903A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/G6	E121/60	E338/D5	6
HS-1903B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/G6	E121/56	E338/D5	6
HS-1903C	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/G6	E121/56	E338/D5	6
HS-1904	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/F6	E121/53	E338/D5	6
HS-1905A	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/F6	E121/52	E338/D5	6
HS-1905B	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/F6	E121/52	E338/D5	6
HS-1908	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/E8	E122/2	E338/D5	6
HS-1909	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/E8	E122/4	E338/D5	6
HS-1932	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/F5	E121/49	E338/D5	6
HS-1933	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/F5	E121/59	E338/D5	6
HS-1934	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/F5	E121/59	E338/D5	6
HS-1989	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/D7	E121/45	E338/D5	6
HS-1937	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/E6	E122/15	E338/D5	6
HS-1936	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/E6	E122/7	E338/D5	6
HS-1920	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/C8	E121/44	E338/D5	6
HS-1921	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/C7	E121/43	E338/D5	6
HS-1913	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/C7	E121/43	E338/D5	6
HS-1912	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/C7	E121/44	E338/D5	6
HS-1935	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/C5	E121/54	E338/D5	6
HS-1940	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/E4	E121/51	E338/D5	6
HS-1939	Hand switch	GE	CR2940	CB ctl rm	786'	M	M119/D4	E121/43	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-1941	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/E3	E121/43	E338/D5	6
HS-1949A	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/D4	E121/47	E338/D5	6
HS-1949B	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/C4	E121/47	E338/D5	6
HS-1972	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/D3	E122/13	E338/D5	6
HS-1973	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/D2	E122/13	E338/D5	6
HS-1963	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/D2	E121/58	E338/D5	6
HS-1967	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/E2	E121/50	E338/D5	6
HS-1970	Hand switch	GE	SBM	CB ctl rm	786'	M	M119/F3	E121/50	E338/D5	6
HS-2000	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/G2	E121/48	E338/D5	6
HS-2001A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/G3	E121/60	E338/D5	6
HS-2001B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/G3	E121/56	E338/D5	6
HS-2001C	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/G3	E121/56	E338/D5	6
HS-2003A	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/F4	E121/52	E338/D5	6
HS-2003B	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/F4	E121/56	E338/D5	6
HS-2004	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/F4	E121/53	E338/D5	6
HS-2058	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/E1	E121/45	E338/D5	6
HS-2005	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/G4	E121/49	E338/D5	6
HS-2006	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/F4	E121/59	E338/D5	6
HS-2007	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/F4	E121/59	E338/D5	6
HS-2010	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/D5	E121/45	E338/D5	6
HS-2069	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/D3	E121/45	E338/D5	6
HS-2038	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/F7	E121/50	E338/D5	6
HS-2036	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/E8	E121/50	E338/D5	6
HS-2035	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/E7	E121/56	E338/D5	6
HS-2031	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/E6	E121/43	E338/D5	6
HS-2030	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/E5	E121/51	E338/D5	6
HS-2029	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/D5	E121/43	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-2051	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/D7	E122/13	E338/D5	6
HS-2052	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/D7	E122/13	E338/D5	6
HS-2044A	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/D6	E121/47	E338/D5	6
HS-2044B	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/D6	E121/47	E338/D5	6
HS-2009	Hand switch	GE	SBM	CB ctl rm	786'	M	M120/C4	E121/54	E338/D5	6
HS-2011	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/C3	E121/44	E338/D5	6
HS-2012	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/C3	E121/43	E338/D5	6
HS-2015	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/C2	E121/43	E338/D5	6
HS-2016	Hand switch	GE	CR2940	CB ctl rm	786'	M	M120/C2	E121/44	E338/D5	6
KY-2080	Relay			CB ctl rm	786'	M	M120/E6		E338/D6	6
PDIS-4641	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M116/43	E121/56	E319/E5	6
PDIS-4642	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M116/G3	E121/56	E318/F4	6
PDIS-4643	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M116/G3	E121/56	E319/E5	6
PDIS-4644	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M116/G3	E121/56	E318/F4	6
PS-4637	Pressure switch	Barksdale	B2T M12SS	RB-S	757'-6"	M	M116/E6	E122/10	E319/E5	16
PS-4638A	Pressure switch	Barksdale	PIH-M34055-V	SW crnr rm	716'-9"	M	M116/E6	E122/10	E317/D7	6
PS-4638B	Pressure switch	Barksdale	PIH-M34055-V	SW crnr rm	716'-9"	M	M116/E6	E122/10	E317/D7	6
PDIS-4625A	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A3	E121/56	E316/E2	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PDIS-4625B	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A3	E121/56	E316/E2	6
PDIS-4625C	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A3	E121/56	E316/E2	6
PDIS-4625D	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M116/A2	E121/56	E316/E2	6
PDIS-4626A	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A7	E121/56	E317/D7	6
PDIS-4626B	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A7	E121/56	E317/D7	6
PDIS-4626C	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A7	E121/56	E317/D7	6
PDIS-4626D	Pressure differential indicating switch	Barton	288	SW crnr rm	716'-9"	M	M116/A8	E121/56	E317/D7	6
PDT-2046	Pressure differential transmitter	GE	50-552032 HKZZ2	SE crnr rm	716'-9"	H	M120/C5	E121/57	M405-1/C5	3,16
PDT-1947	Pressure differential transmitter	GE	50-552032 HKZZ2	NW crnr rm	716'-9"	H	M119/C4	E121/58	M405-1/E7	3,16

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-5825A	Solenoid valve	ASCo	AT-831665	SGT room	786'	M	M158/E6	E113/11	E315/G6	6
SV-5825B	Solenoid valve	ASCo	AT-831665	SGT room	786'	M	M158/D6	E113/11	E315/F6	6
SV-5815A	Solenoid valve	ASCo	AT-831665	SGT room	786'	M	M158/G3	E113/11	E315/G4	6
SV-5815B	Solenoid valve	ASCo	AT-831665	SGT room	786'	M	M158/C3	E113/11	E315/F4	6
SV-5817A	Solenoid valve	ASCo	AT-831665	SGT room	786'	M	M158/F2	E113/11	E320/G3	6
SV-5817B	Solenoid valve	ASCo	AT-831665	SGT room	786'	M	M158/D1	E113/11	E320/G3	6
SV-7602A	Solenoid valve	ASCo	HT831665	SGT room	786'	M	M176/A4	E113/54	E315/G3	6
SV-7602B	Solenoid valve	ASCo	HT831665	SGT room	786'	M	M176/A4	E113/54	E315/G3	6
SV-7605A	Solenoid valve	ASCo	NP831665E	HPCI room	753'	H	M176/A5	E113/64	E317/B4	5,3
SV-7605B	Solenoid valve	ASCo	NP831665E	HPCI room	753'	H	M176/A5	E113/64	E317/B4	5,3
SV-7639A	Solenoid valve	ASCo	NP831665E	Rad tk rm	765'	H	M176/C6	E113/65	E317/B7	5,3
SV-7639B	Solenoid valve	ASCo	NP831665E	Rad tk rm	765'	H	M176/C6	E113/65	E317/B7	5,3
SV-7637A	Solenoid valve	ASCo	FT8321A5	RB-S	812'	M	M176/D3	E113/65	E322/F2	6
SV-7637B	Solenoid valve	ASCo	FT8321A5	RB-S	812'	M	M176/C3	E113/65	E322/F2	6
DPS-7637A	Differential pressure switch	Westinghouse				M	M176/C2	E113/64	E322/F2	6
DPS-7637B	Differential pressure switch	Westinghouse				M	M176/C2	E113/64	E322/F2	6
SV-7610A	Solenoid valve	ASCo	FT8321A5	RB-N	812'	M	M176/D2	E113/64	E322/F2	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-7610B	Solenoid valve	ASCo	FT8321A5	RB-N	812'	M	M176/C2	E113/64	E322/F2	6
SV-7612A	Solenoid valve	ASCo	FT8321A5	RB-N	812'	M	M176/E4	E113/64	E322/F2	6
SV-7612B	Solenoid valve	ASCo	FT8321A5	RB-N	812'	M	M176/E4	E113/64	E322/G2	6
SV-7641A	Solenoid valve	ASCo	HT8321A8	RB	757'-6"	M	M176/F4	E113/65	E359/F8	6
SV-7641B	Solenoid valve	ASCo	HT8321A8	RB	757'-6"	M	M176/F4	E113/65	E359/F8	6
SV-7630A	Solenoid valve	ASCo	FT8321A6	RB-N	757'-6"	H	M176/H8	E113/64	E319/G8	1
SV-7630B	Solenoid valve	ASCo	FT8321A6	RB-N	757'-6"	H	M176/G8	E113/64	E319/G8	1
SV-7631A	Solenoid valve	ASCo	FT8321A6	RB-S	812'	M	M176/H7	E113/64	E323/E3	6
SV-7631B	Solenoid valve	ASCo	FT8321A6	RB-S	812'	M	M176/G7	E113/64	E323/E3	6
SV-7632A	Solenoid valve	ASCo	FT8321A5	RB-S	812'	M	M176/H6	E113/64	E323/F4	6
SV-7632B	Solenoid valve	ASCo	FT8321A5	RB-S	812'	M	M176/G7	E113/64	E323/F4	6
SV-7633A	Solenoid valve	ASCo	FT8321A5	RB-S	812'	M	M176/H4	E113/64	E323/G4	6
SV-7633B	Solenoid valve	ASCo	FT8321A5	RB-S	812'	M	M176/G5	E113/64	E323/G3	6
SV-7634A	Solenoid valve	ASCo	FT8321A5	RB-S	757'	H	M176/H3	E113/64	E319/D8	1
SV-7634B	Solenoid valve	ASCo	FT8321A6	RB-S	812'	M	M176/G4	E113/64	E319/D8	6
SV-7636A	Solenoid valve	ASCo	8317A29	RB-S	757'	H	M176/H2	E113/64	E319/D8	1
SV-7636B	Solenoid valve	ASCo	8317A29	RB-S	757'	H	M176/G3	E113/64	E319/D8	1
SV-7600A	Solenoid valve	ASCo	FT83216A	Offgas	740'	M	M176/F1	E113/54	E370/F3	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-7600B	Solenoid valve	ASCo	FT83216A	Offgas	740'	M	M176/F2	E113/54	E370/F3	6
SV-7607A	Solenoid valve	ASCo	8321A6	RB-N	796'	M	M176/C4	E113/57	E320/G2	6
SV-7607B	Solenoid valve	ASCo	8321A6	RB-N	796'	M	M176/C4	E113/57	E320/G2	6
E/PC-7600A	Converter	Johnson Controls	N-6810-2	Offgas	740'	M	M176/C4	E113/57	EE370/E3	6
E/PC-7600B	Converter	Johnson Controls	N-6810-2	Offgas	740'	M	M176/C4	E113/57	E370/F3	6
FT-5829A	Flow transmitter	GE	554	SGT room	786'	M	M158/E7	E113/112	E315/G6	6
FT-5829B	Flow transmitter	GE	554	SGT room	786'	M	M158/D7	E113/112	E315/G7	6
FS-7600A	Flow switch	GE	560	Offgas	740'	M	M176/G2	E113/15	E370/E3	6
FS-7600B	Flow switch	GE	560	Offgas	740'	M	M176/G1	E113/15	E370/F3	6
P/ER-7600A	Inlet vane control	GE	6-271	Offgas	740'	M	M176/F2	E113/15	E370/F3	6
P/ER-7600B	Inlet vane control	GE	6-271	Offgas	740'	M	M176/F1	E113/15	E370/F3	6
DPT-7600A	Differential pressure transmitter	GE	554	Offgas	740'	M	M176/G2	E113/14	E370/E3	6
DPT-7600B	Differential pressure transmitter	GE	554	Offgas	740'	M	M176/G2	E113/14	E370/E3	6
SV-5801A	Solenoid valve	ASCo	HT-831665	SGT room	786'	M	M158/G7	E113/11	E315/G6	6
SV-5801B	Solenoid valve	ASCo	HT-831665	SGT room	786'	M	M158/C7	E113/11	E315/F6	6
DPS-5803A	Differential pressure switch	Dwyer	1600	SGT room	786'	M	M158/G6	E113/13	E315/G6	6
DPS-5803B	Differential pressure switch	Dwyer	1600	SGT room	786'	M	M158/C6	E113/13	E315/F6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-5805U	Temperature element	Gulton Industries Co.	TCA-0646	SGT room	786'	M	M158/G5	E113/13	E315/G5	6
TE-5805V	Temperature element	Gulton Industries Co.	TCA-0646	SGT room	786'	M	M158/G4	E113/13	E315/G4	6
TE-5805W	Temperature element	Gulton Industries Co.	TCA-0646	SGT room	786'	M	M158/C5	E113/13	E315/F5	6
TE-5805A	Temperature element	Gulton Industries Co.	TCA-0646	SGT room	786'	M	M158/G5	E113/13	EM647/G6	6
TE-5805B	Temperature element	Gulton Industries Co.	TCA-0646	SGT room	786'	M	M158/C5	E113/13	M647/F6	6
TE-5805X	Temperature element	Gulton Industries Co.	TCA-0646	SGT room	786'	M	M158/C4	E113/13	E315/F4	6
TS-5836A	Temperature switch			SGT room	786'	M	M158/G5	E113/13	M647/G6	6
TS-5836B	Temperature switch			SGT room	786'	M	M158/C5	E113/13	M647/F6	6
TS-5808A	Temperature switch	Penn		SGT room	786'	M	M158/G5	E113/13	E315/G5	6
TS-5808B	Temperature switch	Penn		SGT room	786'	M	M158/C5	E113/13	E315/F4	6
SV-5837A	Solenoid valve	ASCo	HT-831665	SGT room	786'	M	M158/F4	E113/98	E320/G4	6
SV-5837B	Solenoid valve	ASCo	HT-831665	SGT room	786'	M	M158/B4	E113/98	E320/G4	6
1V-EF-15A	SGT system exhaust fans	Allis-Chalmers	CO64B	SGT room	786'	M	M176/G2	E113/11	E315/G4	6
1V-EF-15B	SGT system exhaust fans	Allis-Chalmers	CO64B	SGT room	786'	M	M176/C2	E113/11	E315/F4	6
1V-EF-18A	Offgas stack fans	Johnson Service Co	N-6810-2	Offgas	740'	M	M176/G2	E133/15	E370/F3	6
1V-EF-18B	Offgas stack fans	Johnson Service Co	N-6810-2	Offgas	740'	M	M176/G2	E113/15	E370/F3	6
CU-5837A1	Control units	Fenwal	35003-0	SGT room	786'	M	M158/F4	E113/97	M674/G6	6
CU-5837A2	Control units	Fenwal	35003-0	SGT room	786	M	M158/F4	E113/97	M647/G6	6
CU-5837B1	Control units	Fenwal	35003-0	SGT room	786'	M	M158/B4	E113/97	M647/F6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
CU-5837B2	Control units	Fenwal	35003-0	SGT room	786'	M	M158/B4	E113/97	M647/F6	6
TS-5805A	Temperature switch	GE	560	CB ctl rm	786'	M	M158/H4	E113/113	E338/D4	6
TS-5805B	Temperature switch	GE	560	CB ctl rm	786'	M	M158/D4	E113/113	E338/D4	6
CU-5835A1	Control units	Fenwal	35003-0	SGT room	786'	M	M158/F4	E113/97	M647/G6	6
CU-5835A2	Control units	Fenwal	35003-0	SGT room	786'	M	M158/F4	E113/97	M647/G6	6
CU-5835B1	Control units	Fenwal	35003-0	SGT room	786'	M	M158/B4	E113/97	M647/F6	6
CU-5835B2	Control units	Fenwal	35003-0	SGT room	786'	M	M158/B4	E113/97	M647/F6	6
HS-5825A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/F6	E113/11	E338/D4	6
HS-5825B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/D6	E113/11	E338/D4	6
HS-5815A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/G3	E113/11	E338/D4	6
HS-5815B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/C3	E113/11	E338/D4	6
HS-5817A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/F3	E113/11	E338/D4	6
HS-5817B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/D2	E113/11	E338/D4	6
HS-7600A	Hand switch	GE	SBM	CB ctl rm	786'	M	M176/F2	E113/15	E338/D4	6
HS-7600B	Hand switch	GE	SBM	CB ctl rm	786'	M	M176/F1	E113/15	E338/D4	6
HS-7601A	Hand switch	GE	CR2940-UB203E	Offgas	740'	M	M176/F2	E113/15	E370/E4	6
HS-7601B	Hand switch	GE	CR2940-UB203E	Offgas	740'	M	M176/F1	E113/15	E370/F3	6
HS-5801A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/H7	E113/11	E338/D4	6
HS-5801B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/C7	E113/11	E338/D4	6
HS-5805A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/H5	E113/15	E338/D4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-5805B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M158/D5	E113/15	E338/D4	6
HS-5816A	Hand switch	GE	CR2940-UB203E	CB ctl rm	786'	M	M158/G2	E113/11	E338/D4	6
HS-5816B	Hand switch	GE	CR2940-UB203E	CB ctl rm	786'	M	M158/C2	E113/11	E338/D4	6
HS-5839A	Hand switch	GE	CR2940-UB203E	CB ctl rm	786'	M	M158/G2	E113/11	E315/G6	6
HS-5839B	Hand switch	GE	CR2940-UB203E	CB ctl rm	786'	M	M158/C2	E113/11	E315/F6	6
EC-5805A	Line contactor	Kalmar	ZF34825CDI	SGT room	786'	M	M158/H5	E113/13	E315/G6	6
EC-5805B	Line contactor	Kalmar	ZF34825CEI	SGT room	786'	M	M158/C5	E113/13	E315/F6	6
TT-5805A	Temperature transmitter	GE	550	SGT room	786'	M	M158/G6	E113/13	E315/G6	6
TT-5805B	Temperature transmitter	GE	550	SGT room	786'	M	M158/C6	E113/13	E315/F6	6
TI-5805A	Temperature indicator	GE	180	CB ctl rm	786'	M	M158/G5	E113/113	E338/D4	6
TI-5805B	Temperature indicator	GE	180	CB ctl rm	786'	M	M158/C5	E113/15	E338/D4	6
DTT-5805A	Differential temperature transmitter	GE	678	SGT room	786'	M	M158/G4	E113/113	E315/G6	6
DTT-5805B	Differential temperature transmitter	GE	567	SGT room	786'	M	M158/C4	E113/113	E315/F6	6
DTIC-5805A	Differential temperature indicating controller	GE	540	CB ctl rm	786'	M	M158/G4	E113/113	E338/D4	6
DTIC-5805B	Differential temperature indicating controller	GE	540	CB ctl rm	786'	M	M158/G4	E113/113	E338/Dr	6
TI-5822A	Temperature indicator	Meter Weston	2031	SGT room	786'	M	M158/G4	E113/113	E315/G6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TI-5822B	Temperature indicator	Meter Weston	2031	SGT room	786'	M	M158/C4	E113/113	E315/F6	6
TI-5838A	Temperature indicator	GE	180	CB ctl rm	786'	M	M158/G4	E113/113	E338/D4	6
TI-5838B	Temperature indicator	GE	180	CB ctl rm	786'	M	M158/C4	E113/113	E338/D4	6
LR-5830A	Level recorder	Westinghouse	WL	CB ctl rm	786'	M	M158/H3	E113/18	E338/D4	6
LR-5830B	Level recorder	Westinghouse	WL	CB ctl rm	786'	M	M158/D3	E113/18	E338/D4	6
PB-5831A	Pushbutton	GE	CR294OU201	CB ctl rm	786'	M	M158/H3	E113/98	E338/D4	6
PB-5831B	Pushbutton	GE	CR294OU201	CB ctl rm	786'	M	M158/D3	E113/98	E338/D4	6
HS-5814A	Hand switch	GE	SB1	Control	786'	M	M158/G3	E113/11	E338/	6
HS-5814B	Hand swtich	GE	SB1	CB ctl rm	786'	M	M158/C3	E113/11	E338/D4	6
TT-5838A	Temperature transmitter	GE	550	SGT room	786'	M	M158/G4	E113/113	E315/G6	6
TT-5838B	Temperature transmitter	GE	550	SGT room	786'	M	M158/C4	E113/113	E315/F6	6
PB-5838A	Pushbutton	GE	CR294OU201	CB ctl rm	786'	M	M158/F4	E113/98	E338/D4	6
PB-5838B	Pushbutton	GE	CR294OU201	CB ctl rm	786'	M	M158/B4	E113/98	E338/D4	6
PB-5837A	Pushbutton	GE	CR204OU201	CB ctl rm	786'	M	M158/F4	E113/98	E338/D4	6
PB-5837B	Pushbutton	GE	CR294OU201	CB ctl rm	786'	M	M158/B4	E113/98	E338/D4	6
SQ-5829A	Converter	GE	565	SGT room	786'	M	M158/E6	E113/112	E315/G6	6
SQ-5829B	Converter	GE	565	SGT room	786'	M	M158/E6	E113/112	E315/F6	6
FS-5826A	Flow switch	GE	560	CB ctl rm	786'	M	M158/E5	E113/112	E338/D4	6
FS-5826B	Flow switch	GE	560	CB ctl rm	786'	M	M158/E5	E113/112	E338/D4	6
FIC-5828A	Flow indicating controller	GE	540	CB ctl rm	786'	M	M158/E5	E113/112	E338/D4	6
FIC-5828B	Flow indicating controller	GE	540	CB ctl rm	786'	M	M158/E5	E113/112	E338/D4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
E/PC-5816A	Converter	Johnson Controls	N-6810	SGT room	786'	M	M158/F2	E113/112	E315/G6	6
E/PC-5816B	Converter	Johnson Controls	N-6810	SGT room	786'	M	M158/C2	E113/112	E315/F6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1G-31	Diesel generator	Colt Industries	50-44-24	DG room	757'-6"	M	M132/M2	E27	M2/C3	6
1G-21	Diesel generator	Colt Industries	50-44-24	DG room	757'-6"	M	M132/M2	E27	M2/C3	6
HS-3233A	Control switch	GE	CR2940 U301	DG room	757'-6"	M	M132/G6	E80	M2/B3	6
HS-3233B	Control switch	GE	CR2940 U301	DG room	757'-6"	M	M132/D6	E80	M2/B3	6
1P-44A	Transfer pump	Crane Co.	GA-1K-150	Outside TB	757'-6"	M	M132/A2	E106/5	E354/D3	6
1P-44B	Transfer pump	Crane Co.	GA-1K-150	DG room	757'-6"	M	M132/A3	E106/5	E354/D4	6
LS-3208A	Level switch	Colt Industries	80	DG room	757'-6"	M	M132/F4	E106/5	E310/B3	6
LS-3210A	Level switch	Colt Industries	80	Outside TB	757'-6"	M	M132/C4	E106/5	E310/B4	6
LS-3208B	Level switch	Colt Industries	80	Outside TB	757'-6"	M	M132/F4	E106/5	E310/B3	6
LS-3210B	Level switch	Colt Industries	80	Outside TB	757'-6"	M	M132/C4	E106/5	E310/B4	6
TS-3226	Temperature switch	Fenwal	27020	Outside TB	757'-6"	M	M132/G3	E106/5	E310/C4	6
TS-3227	Temperature switch	Fenwal	27020	Outside TB	757'-6"	M	M132/D3	E106/5	E310/C4	6
1A3	4,160 V switchgear	GE	HFA-511	E SWGR rm	757'-6"	M	N/A	E5	M2/F5	6
1A4	4,160 V switchgear	GE	HFA-511	E SWGR rm	757'-6"	M	N/A	E5	M2/F6	6
1X91	4,160-480/277 V transformer	ITE	47855	Intake str	767'	M	N/A	E24	M17/E7	6
1X20	4,160-480/277 V transformer	ITE	47855	Intake str	767'	M	N/A	E24	M17/E7	6
HS-3225A	Control switch	ONAN	DJA-MS/1T	DG room	757'-6"	M	M132/E8	E80	M2/B3	6
HS-3225B	Control switch	ONAN	DJA-MS/1T	DG room	757'-6"	M	M132/H8	E80	M2/B3	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1X31	4,160-480/277 V transformer	ITE Imperial	46787	E SWGR rm	757'-6"	M	N/A	E24	M405-2/F5	6
1X41	4,160-480/277 V transformer	ITE Imperial	46787	E SWGR rm	757'-6"	M	N/A	E24	M405-2/F6	6
1B9	480 V load center	ITE Imperial	47855-A3	Intake str	767'	M	N/A	E24	M17/E7	6
1B20	480 V load center	ITE Imperial	47855-B1	Intake str	767'	M	N/A	E24	M17/E7	6
1B3	480 V load center	ITE Imperial	47844-A	E SWGR rm	757'-6"	M	N/A	E24	M2/F5	6
1B4	480 V load center	ITE Imperial	47844-B	E SWGR rm	767'-6"	M	N/A	E24	M2/F6	6
1B32	480 V MCC	Allis-Chalmers	Valueline	E SWGR rm	757'-6"	M	N/A	E105/12	M2/G5	6
1B34	480 V MCC	Allis-Chalmers	Mark 1	RB-S	757'-6"	M	N/A	E105/14	E321/B4	6
1B34A	480 V MCC	Allis-Chalmers	Valueline	RB-S	786'	M	N/A	E105/15A	M405-3/C6	6
1B42	480 V MCC	Allis-Chalmers	Valueline	E SWGR rm	757'-6"	M	N/A	E105/16	M405-2/F6	6
1B44	480 V MCC	Allis-Chalmers	Mark 1	RB-N	757'-6"	M	N/A	E105/18	M405-2/E7	6
1B44A	480 V MCC	Allis-Chalmers	Valueline	RB-N	757'-6"	M	N/A	E105/19A	M405-3/E7	6
1B37	480 V MCC	Allis-Chalmers	Valueline	RB-S	757'-6"	M	N/A	E105/38	E321/B5	6
1B21	480 V MCC	Allis-Chalmers	Valueline	Intake str	767'-6"	M	N/A	E105/30	M17/E7	6
1B91	480 V MCC	Allis-Chalmers	Valueline	Intake str	767'	M	N/A	E105/31	M17/E7	6
1B36	480 V MCC	Allis-Chalmers	Valueline	Pumphouse	761'	M	N/A	E105/34	E347/G6	6
1B46	480 V MCC	Allis-Chalmers	Mark 1	Pumphouse	761'	M	N/A	E105/35	E347/F7	6
PS-3241A	Pressure switch	Colt Industries	2584-B1	DG room	757'-6"	M	M132/NS	E80	M2/B3	6
PS-3241B	Pressure switch	Colt Industries	2584-B1	DG room	757'-6"	M	M132/NS	E80	M2/B3	6
SS-3236A	Speed switch			DG room	757'-6"	M	M132/H1	E80	M2/B3	6
SS-3236B	Speed switch	Westinghouse		DG room	757'-6"	M	M132/A8	E80	M2/B3	6
SS-3237A	Speed switch	Westinghouse		DG room	757'-6"	M	M132/C1	E80	M2/B3	6
SS-3237B	Speed switch	Westinghouse		DG room	757'-6"	M	M132/A5	E80	M2/B3	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PS-3242A	Pressure switch	Colt Industries	2584-B1	DG room	757'-6"	M	M132/G1	E80	E310/C3	6
PS-3242B	Pressure switch	Colt Industries	2584-B1	DG room	757'-6"	M	M132/A7	E80	E310/C2	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1D1	125 V battery	Gould	FPS-13	125V by rm		M	N/A	E27	M2/G5	6
1D2	125 V battery	Gould	FPS-13	125V by rm		M	N/A	E27	M2/G6	6
1D12	125 V battery charger	Power Conversion Prod	3M-130-75	E SWGR rm	757'-6"	M	N/A	E27	M2/G5	6
1D22	125 V battery charger 2	Power Conversion Prod	3M-130-75	E SWGR rm	757'-6"	M	N/A	E27	M2/F6	6
1D120	125 V battery charger 3	Power Conversion Prod	3M-130-75	E SWGR rm	757'-6"	M	N/A	E27	M2/F5	6
1D10	Distribution panel 1	Delta Switchboard	33431 Type CDP	E SWGR rm	757'-6"	M	N/A	E27	M2/G5	6
1D20	Distribution panel 2	Delta Switchboard	33431 Type CDP	E SWGR rm	757'-6"	M	N/A	E27	M2/G6	6
1D11	Distribution panel A	Delta Switchboard	33431 Type CDP	E SWGR rm	757'-6"	M	N/A	E27	M2/G5	6
1D13	Distribution panel C	Delta Switchboard	33431 Type CDP	S SWGR rm	757'-6"	M	N/A	E27	M2/G5	6
1D14	Recirculation MCC	ITE	85-71170	RB-S	786'	M	N/A	E27	E321/D5	6
1D23	Distribution panel D	Delta Switchboard	33431 Type NHDP	E SWGR rm	757'-6"	M	N/A	E27	M2/G6	6
1D21	Distribution panel B	Delta Switchboard	33431 Type NHDP	E SWGR rm	757'-6"	M	N/A	E27	M2/G6	6
1D4	250 V battery	Gould	FPS-A	250V by rm	757'-6"	M	N/A	E28	M2/G5	6
1D44	250 V battery charger	Power Conversion Prod	3M-280-75	E SWGR rm	757'-6"	M	N/A	E28	M2/G6	6
1D43	250 V battery charger 2	Power Conversion Prod	3M-260-75	E SWGR rm	757'-6"	M	N/A	E28	M2/G5	6
1D40	Distribution panel	Delta Switchboard	33431 Type CDP	E SWGR rm	757'-6"	M	N/A	E28	M2/G6	6
1D41	DC MCC HPCI system	ITE	Series 9600	RB-S	757'-6"	H	N/A	E28	M2/C6	3
1D42	DC MCC	ITE	85-71170	RB-N	757'-6"	M	N/A	E28	M2/F5	6
1D5	24 V battery 1	Gould	DPR11	24V by rm	757'-6"	M	N?A	E28	M2/G5	6

SYSTEM: DC POWER SUPPLY (SYSTEM 12)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1D51	24 V battery charger 1	Power Conversion Products	S-24-25	E SWGR rm	757'-6"	M	N/A	E28	M2/G5	6
1D52	24 V battery charger 1	Power Conversion	S-24-25	E SWGR rm	757'-6"	M	N/A	E28	M2/G5	6
1D50	Distribution panel 1	Delta Switchboard	33431 Type NA1B	E SWGR rm	757'-6"	M	N/A	E28	M2/G5	6
1D6	24 V battery 2	Gould	FPS-13	By rm	757'-6"	M	N/A	E28	M2/G6	6
1D61	24 V battery charger 2	Power Conversion Products	S-24-25	E SWGR rm	757'-6"	M	N/A	E28	M2/G6	6
1D62	24 V battery charger 2	Power Conversion Products	S-24-25	E SWGR rm	757'-6"	M	N/A	E28	M2/G6	6
1D60	Distribution panel 2	Delta Switchboard	33431 Type NA1B	E SWGR rm	757'-6"	M	N/A	E28	M2/G6	6
1Y-30	RPS distribution panel	GE	CR105P002	E SWGR rm	757'-6"	M	N/A	E29	E335/D2	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-22A (E11-C001A)	RHR service water pumps and motors	Layne & Bowler	D30841-A	Pumphouse	761'	M	M146/A8	E121/42	M15/G7	6
1P-22B (E11-C001B)	RHR service water pumps and motors	Layne & Bowler	D30841-A	Pumphouse	761'	M	M146/A8	E121/42	M15/G7	6
1P-22C (E11-C001C)	RHR service water pumps and motors	Layne & Bowler	D30841-A	Pumphouse	761'	M	M146/A7	E121/42	M15/G7	6
1P-22D (E11-C001D)	RHR service water pumps and motors	Layne & Bowler	D30841-A	Pumphouse	761'	M	M146/A5	E121/42	M15/G7	6
MO-1943A (E11-F073A)	Motor-operated valve	Limitorque	SMB-00	SE crnr rm	745'	H	M113/G8	E121/45	E317/E3	7
MO-1943B (E11-F073B)	Motor-operated valve	Limitorque	SMB-00	Torus rm-S	754'	H	M113/G8	E121/45	E317/F7	7
MO-1947 (E11-F068B)	Motor-operated valve	Limitorque	SMB-4	NW crnr rm	734'	H	M113/D7	E121/55	E316/E8	7
MO-2046 (E11-F068A)	Motor-operated valve	Limitorque	SMB-4	HPCI room	716'	H	M113/D5	E121/55	E317/D2	7
ZT-1947	Position transmitter	Limitorque		NW crnr rm	749'	H	M113/C7	E121/58A	M401-5/E7	15
ZT-2046	Position transmitter	Limitorque		HPCI room	734'	H	M113/C5	E121/58	M265/D2	15
HS-4924A	Hand switch (located in switchgear room)	GE	SBM	CB ctl rm	786'	M	M146/B8	E121/42	E338	6
HS-4924B	Hand switch (same)	GE	SBM	CB ctl rm	786'	M	M146/B5	E121/42	E338	6
HS-4924C	Hand switch (same)	GE	SBM	CB ctl rm	786'	M	M146/B7	E121/42	E338	6
HS-4924D	Hand switch (same)	GE	SBM	CB ctl rm	786'	M	M146/B5	E121/42	E338	6
MO-1942 (E11-F075)	Motor-operated valve	Limitorque	SMB-0	SE crnr rm	745'	H	M113/F8	E121/46	M266/E3	4

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-1942	Solenoid valve	Target Rock	72V-002	SE crnr rm	734'	H	M113/F8	E121/46	M411-6/	4
HS-1943A (E11-S51A)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M113/G8	E121/45	E338	6
HS-1943B (E11-S51B)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M113/G8	E121/45	E338	6
HS-1942 (E11-S55)	Hand switch	GE	CR2940	CB ctl rm	786'	M	M113/F8	E121/46	E338	6
HS-4925A (E11-S20A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B8	E121/42	E338	6
HS-4925B (E11-S20B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B5	E121/42	E338	6
HS-4925C (E11-S20C)	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B7	E121/42	E338	6
HS-4925D (E11-S20D)	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B5	E121/42	E338	6
HS-2059 (E11-S19A)	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B8	E121/42	E338	6
HS-1959 (E11-S19B)	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B5	E121/42	E338	6
ZM-1947 (E11-S600B)	Position modulator	GE	543151AAAZZ	CB ctl rm	786'	M	M113/D7	E121/58A	E338	6
ZM-2046 (E11-S600A)	Position modulator	GE	543151AAAZZ	CB ctl rm	786'	M	M113/D5	E121/58	E338	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-99A	Emergency service water pump motor	Layne & Bowler	D30839	Pumphouse	757'-6"	M	M146/A7	E111/8	M15/G7	6
1P-99B	Emergency service water pump motor	Layne & Bowler	D30839	Pumphouse	757'-6"	M	M146/A6	E111/8	M15/G7	6
SV-1956A	Solenoid valve	ASCo	8300A203U	RB-N	812'	M	M113/H3	E111/8	M250/G4	6
SV-1956B	Solenoid valve	ASCo	8300A203U	RB-N	812'	M	M113/H2	E111/8	M250/G4	6
MO-2039A	Motor-operated valve	Limitorque	SMB-000	RB	812'	M	M113/H4	E111/5	E322/G3	6
MO-2039B	Motor-operated valve	Limitorque	SMB-000	RB	812'	M	M113/H3	E111/5	E322/G4	6
MO-2077	Motor-operated valve	Limitorque	SMB-000	RB	812'	M	M113/H3	E111/24	E322/G4	6
MO-2078	Motor-operated valve	Limitorque	SMB-000	RB	812'	M	M113/H1	E111/24	E322/G4	6
SV-2080	Solenoid valve	ASCo	8321A2	DG room	757'-6"	M	M113/G5	E111/8	E310/C2	6
SV-2081	Solenoid valve	ASCo	8321A2	DG room	757'	M	M113/G5	E111/8	E310/C4	6
HS-4927A	Hand switch (in switchgear room)	GE	CR2940	E SWGR rm	757'-6"	M	M146/B7	E111/8	E335/E4	6
HS-4927B	Hand switch (in switchgear room)	GE	CR2940	E SWGR rm	757'	M	M146/B6	E111/8	E335/E6	6
HS-4928A	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B7	E111/8	E338/E4	6
HS-4928B	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/B6	E111/8	E338/E4	6
HS-2039A	Hand switch	GE	SBM	CB ctl rm	786'	M	M113/H4	E111/5	E338/E4	6
HS-2039B	Hand switch	GE	SBM	CB ctl rm	786'	M	M113/H2	E111/5	E338/E4	6
HS-2077	Hand switch	GE	SBM	CB ctl rm	786'	M	M113/H3	E111/24	E338/E4	6
HS-2078	Hand switch	GE	SBM	CB ctl rm	786'	M	M113/H1	E111/24	E338/E4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-2080	Hand switch	GE	SBM	CB ctl rm	786'	M	M113/H5	E111/8	E338/B5	6
HS-2081	Hand switch	GE	SBM	CB ctl rm	786'	M	M113/G5	E111/8	E338/B5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PS-1005A	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/E5	E66	M405-1/F4	6
PS-1005B	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/E5	E66	M405-1/F4	6
PS-1005C	Pressure switch	Barksdale	B2T-M12SS	TB-N	7734'	M	M103/E6	E66	M405-1/F4	6
PS-1005D	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/E6	E66	M405-1/F4	6
PS-1026A	Pressure switch	Barksdale	TC-9022-3	TB-N	780'	M	M106/E7	E44	M405-3/F3	6
PS-1026B	Pressure switch	Barksdale	TC-9022-3	TB-N	780'	M	M106/E6	E44	M405-3/F3	
PS-1026C	Pressure switch	Barksdale	TC-9022-3	TB-N	780'	M	M106/E7	E44	M405-3/F3	6
PS-1026D	Pressure switch	Barksdale	TC-9022-3	TB-N	780'	M	M106/E6	E44	M405-3/F3	6
ZS-1076A	Position switch			TB-N	757'-6'	M	M103/E6	E66	E308/D6	6
ZS-1076B	Position switch			TB-N	757'-6"	M	M103/E6	E66	E308/D6	6
ZS-1076C	Position switch			TB-N	757'-6"	M	M103/E7	E66	E308/C6	6
ZS-1076D	Position switch			TB-N	757'-6"	M	M103/E7	E66	E308/C6	6
PS-1096A	Pressure switch	Barksdale	DIT-M18SS	TB-N	780'	M	M103/NS	E122/9	M405-3/F3	6
PS-1096B	Pressure switch	Barksdale	DIT-M18SS	TB-N	780'	M	M103/NS	E122/9	M405-3/D3	6
PS-1096C	Pressure switch	Barksdale	DIT-M18SS	TB-N	780'	M	M103/NS	E122/9	M405-3/F3	6
PS-1096D	Pressure switch	Barksdale	DIT-M18SS	TB-N	780'	M	M103/NS	E122/9	M405-3/D3	6
ZS-4413	Position switch	Namco	EA 740	Stm tunnel	758'	H	M114/E2	E122/11	M268/G2	3
ZS-4416	Position switch	Namco	EA 740	Stm tunnel	758'	H	M114/D8	E122/11	M263/G2	3

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
ZS-4419	Position switch	Namco	EA 740	Stm tunnel	758'	H	M114/D2	E122/11	M248/D3	3
ZS-4421	Position switch	Namco	EA 740	Stm tunnel	758'	H	M114/E8	E122/11	M248/C2	3
ZS-4412	Position switch	Namco	EA 740	Drywell	758'	H	M114/E3	E122/11	M341/D3	3
ZS-4415	Position switch	Namco	EA 740	Drywell	758'	H	M114/D7	E122/11	M341/C3	3
ZS-4418	Position switch	Namco	EA 740	Drywell	758'	H	M114/D3	E122/11	M341/F3	3
ZS-4420	Position switch	Namco	EA 740	Drywell	758'	H	M114/E7	E122/11	M341/E3	3
LIS-4592A (B21-N017A)	Level indicating switch	Barton	288	RB-N	786'	M	M115/E6	E121/37	E320/H8	16
LIS-4592B (B21-N017B)	Level indicating switch	Barton	288	RB-N	786'	M	M115/E6	E121/24	E320/H8	16
LIS-4592C (B21-N017C)	Level indicating switch	Barton	288	RB-N	757'-6"	M	M115/E3	E121/37	E318/E9	16
LIS-4592D (B21-N017D)	Level indicating switch	Barton	288	RB-N	757'-6"	M	M115/E3	E121/24	E318/E9	16
PS-4315A	Pressure switch	Static-O-Ring	12N-AA4	RB-S	757'-6"	M	M143/D6	E66	E319/F6	6
PS-4315B	Pressure switch	Static-O-Ring	12N-AA4	RB-S	757'-6"	M	M143/E6	E66	E319/D5	6
PS-4315C	Pressure switch	Static-O-Ring	12N-AA4	RB-S	757'-6"	M	M143/E6	E66	E319/G6	6
PS-4315D	Pressure switch	Static-O-Ring	12N-AA4	RB-N	757'-6"	M	M143/F6	E66	E318/G10	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1V-AC-14A	Air cooling fan	Westinghouse	7302	HPCI room	747'	H	M171/G3	E113/42	M660/C3	3
1V-AC-14B	Air cooling fan	Westinghouse	7302	HPCI room	747'	H	M171/F3	E113/42	M660/C3	3
1V-AC-11	Air cooling fan	Westinghouse	7302	NW crnr rm	750'	H	M171/C5	E113/49	M646/E7	3
1V-AC-12	Air cooling fan	Westinghouse	7302	SE crnr rm	750'	H	M171/B6	E113/49	M660/E3	3
HS-7108A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M171/E4	E113/42	E338/E4	6
HS-7108B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M171/E3	E113/42	E338/E4	6
HS-7116	Hand switch	GE	CR2940-UB202D	CB ctl rm	786'	M	M171/B5	E113/49	E338/E4	6
HS-7119	Hand switch	GE	CR2940-UB202D	CB ctl rm	786'	M	M171/B5	E113/49	E338/E4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-6127A	Solenoid valve	ASCo	8321A1	CB H&V rm	800'-4"	M	M161/H5	E113/27	E341/F4	6
SV-6127B	Solenoid valve	ASCO	8321A1	CB H&V rm	800'-4"	M	M161/E6	E113/27	E341/F4	6
SV-6113A	Solenoid valve	Johnson Controls	V-24	CB H&V rm	800'-4"	M	M161/H6	E113/26	E341/F4	6
SV-6113B	Solenoid valve	Johnson Controls	V-24	CB H&V rm	800'-4"	M	M161/E6	E113/26	E341/F4	6
CU-7327A	Control unit	Fenwal	35003-0	CB H&V rm	807'-8"	M	M173/G5	E113/34	E341/G3	6
CU-7327B	Control unit	Fenwal	35003-0	CB H&V rm	800'-4"	M	M173/D4	E113/34	E341/G7	6
CU-7329A	Control unit	Fenwal	35003-0	CB H&V rm	807'-8"	M	M173/G4	E113/34	E341/G3	6
CU-7329B	Control unit	Fenwal	35003-0	CB H&V rm	800'-4"	M	M173/C4	E113/34	E341/G7	6
DPS-7304A	Differential pressure switch	Dwyer	1636-25	CB H&V rm	800'-4"	M	M173/G6	E113/37	E341/F3	6
DPS-7304B	Differential pressure switch	Dwyer	1636-25	CB H&V rm	800'-4"	M	M173/D6	E113/37	E341/F8	6
EC-7304A	Electric heater	Pacific Chromalox	3C5CR-025-3480	CB H&V rm	800'-4"	M	M173/H3	E113/37	E341/G3	6
EC-7304B	Electric heater	Pacific Chromalox	3C5CR-025-3480	CB H&V rm	800'-4"	M	M173/E6	E113/37	E341/G7	6
FS-6924A	Flow switch	Custom Component Switches	642D	RB-N	812'	M	M169/C3	E113/30	E322/G4	6
FS-6924B	Flow switch	Custom Component Switches	642D	RB-N	812'	M	M169/C2	E113/31	E322/F4	6
FS-6925A	Flow switch	Custom Component Switches	642D	RB-N	812'	M	M169/D2	E113/30	E322/G4	6
FS-6925B	Flow switch	Custom Component Switches	642D	RB-N	812'	M	M169/D2	E113/31	E322/F4	6
HS-7328A	Hand switch	GE	CR-2940-UB202D	CB H&V rm	800'-4"	M	M173/F5	E113/152	E341/G3	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-7328B	Hand switch	GE	CR2940-UB202D	CB H&V rm	800'-4"	M	M173/C5	E113/152	E341/G7	6
OT-7304A	Operating thermostat	Channel Master	CFEI-74C	CB H&V rm	807'-8"	M	M173/F5	E113/39	E341/G3	6
OT-7304B	Operating thermostat	Channel Master	CFEI-74C	CB H&V rm	800'-4"	M	M173/C5	E113/39	E341/G7	6
RE-6101A	Radiation element	NMC	LB8320A19	CB H&V rm	800'-4"	M	M161/H8	E113/102	E341/F8	6
RE-6101B	Radiation element	NMC	LB8320A19	CB H&V rm	800'-4"	M	M161/G8	E113/102	E341/F8	6
SV-6107A	Solenoid valve	ASCO	HT8321A6	CB H&V rm	800'-4"	M	M161/G2	E113/82	E341/F5	6
SV-6107B	Solenoid valve	ASCo	HT8321A6	CB H&V rm	800'-4"	M	M161/G2	E113/83	E341/F5	6
SV-6109A	Solenoid valve	ASCo	8321A1	CB H&V rm	800'-4"	M	M161/G3	E113/83	E341/G5	6
SV-6109B	Solenoid valve	ASCo	8321A1	CB H&V rm	800'-4"	M	M161/D3	E113/83	E341/G5	6
SV-6110A	Solenoid valve	ASCo	HT8321A1	CB H&V rm	800'-4"	M	M161/B2	E113/82	E341/F7	6
SV-6110B	Solenoid valve	ASCo	HT8321A1	CB H&V rm	800'-4"	M	M161/B2	E113/83	E341/F7	6
CS-6132A	Control switch	DAZIC	CI2120	CB H&V rm	800'-4"	M	M161/E1	E113/40	E341/G6	6
CS-6132B	Control switch	DAZIC	CI2120	CB H&V rm	800'-4"	M	M161/F1	E113/40	E341/G6	6
CS-6132C	Control switch	DAZIC	CI2120	CB H&V rm	800'-4"	M	M161/F1	E113/40	E341/G6	6
SV-7301A	Solenoid valve	ASCo	8321A8	CB H&V rm	807'-8"	M	M173/H6	E113/35	E341/G4	6
SV-7301B	Solenoid valve	ASCo	8321A8	CB H&V rm	800'-4"	M	M173/D7	E113/35	E341/G7	6
SV-7318A	Solenoid valve	ASCo	HT-8300B9U	CB H&V rm	807'-8"	M	M173/G3	E113/35	E341/G3	6
SV-7318B	Solenoid valve	ASCo	HT-8300B9U	CB H&V rm	800'-4"	M	M173/D2	E113/35	E341/G7	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-7322A	Solenoid valve	ASCo	8321A6	CB H&V rm	807'-8"	M	M173/F3	E113/39	E341/G3	6
SV-7322B	Solenoid valve	ASCo	8321A6	CB H&V rm	800'-4"	M	M173/C3	E113/39	E341/G7	6
SV-7328A	Solenoid valve	ASCo	831667	CB H&V rm	807'-8"	M	M173/F5	E113/34	E341/G3	6
SV-7328B	Solenoid valve	ASCo	831667	CB H&V rm	800'-4"	M	M173/C5	E113/34	E341/G7	6
TE-7304A	Temperature element	Channel Master	CNOF-76D	CB H&V rm	807'-8"	M	M173/G6	E113/37	E341/G3	6
TE-7304B	Temperature element	Channel Master	CNOF-76D	CB H&V rm	800'-4"	M	M173/D6	E113/37	E341/G7	6
TS-7304A	Temperature switch	Channel Master	ARC290	CB H&V rm	807'-8"	M	M173/G5	E113/37	E341/G3	6
TS-7304B	Temperature switch	Channel Master	ARC290	CB H&V rm	800'-4"	M	M173/D5	E113/37	E341/G7	6
1V-SF-30A	Standby filter unit fan	Allis-Chalmers	COC64B	CB H&V rm	800'-4"	M	M173/G2	E113/35	M5/E5	6
1V-SF-30B	Standby filter unit fan	Allis Chalmers	COC64B	CB H&V rm	800'-4"	M	M173/D2	E113/35	M5/E3	6
1V-AC-30A	Control building ventilation fan	H.K. Porter	F1R-(P270)-23.0	CB H&V rm	800'-4"	M	M161/G6	E113/26	M5/E2	6
1V-AC-30B	Control building ventilation fan	H.K. Porter	F1R-(P270)-23.0	CB H&V rm	800'-4"	M	M161/D6	E113/26	M5/E2	6
1V-RF-30A	Control room exhaust fan	H.K. Porter	N1R	CB H&V rm	800'-4"	M	M161/H5	E113/27	M5/D2	6
1V-RF-30B	Control room exhaust fan	H.K. Porter	N1R	CB H&V rm	800'-4"	M	M161/E5	E113/27	M5/D2	6
1V-AC-32	Computer room exhaust fan	H.K. Porter	C1H-447APR	CB H&V rm	800'-4"	M	M161/G7	E113/19	M5/D3	6
1V-EF-30A	Battery room exhaust fan	GE	K32EG273	CB H&V rm	800'-4"	M	M161/E1	E113/40	M5/E3	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1V-EF-30B	Battery room exhaust fan	GE	K32EG273	CB H&V rm	800'-4"	M	M161/F1	E113/40	M5/E3	6
1V-EF-30C	Battery room exhaust fan	GE	K32EG273	CB H&V rm	800'-4"	M	M161/F1	E113/40	M5/D3	6
1V-EF-33	Cable spreading room exhaust fan	Louis-Allis Company	CO64B	CB H&V rm	800'-4"	M	M161/E7	E113/20	M5/E3	6
TS-6124A	Temperature switch	Penn	A-19AAF-20	CB H&V rm	800'-4"	M	M161/A2	E113/35	E341/F7	6
TS-6124B	Temperature switch	Penn	A-19AAF-20	CB H&V rm	800'-4"	M	M161/A3	E113/35	E341/F7	6
PS-7333A	Pressure switch	United Electric Controls	270	SGT room	786'	M	M173/B6	E113/144	E315/G6	6
PS-7333B	Pressure switch	United Electric Controls	270	SGT room	786'	M	M173/B8	E113/144	E315/F6	6
PS-7334A	Pressure switch	United Electric Controls	270	SGT room	786'	M	M173/B6	E113/144	E315/G6	6
PS-7334B	Pressure switch	United Electric Controls	270	SGT room	786'	M	M173/B8	E113/144	E315/F6	6
PS-7335A	Pressure switch	Mercond Corp.	DA7031-153	SGT room	786'	M	M173/B5	E113/144	E315/G6	6
PS-7335B	Pressure switch	Mercond Corp.	DA7031-153	SGT room	786'	M	M173/B7	E113/144	E315/F6	6
SV-7333A	Solenoid valve	Asco	8210B27	CB H&V rm	800'-4"	M	M173/B6	E113/144	E341/G4	6
SV-7333B	Solenoid valve	Asco	8210B27	CB H&V rm	800'-4"	M	M173/C7	E113/144	E341/F4	6
SV-7334A	Solenoid valve	Asco	8210B27	CB H&V rm	800'-4"	M	M173/C5	E113/144	E341/G4	6
SV-7334B	Solenoid valve	Asco	8210B27	CB H&V rm	800'-4"	M	M173/C7	E113/144	E341/F4	6
LC-7328A	Level switch	Square D	DG-253	CB H&V rm	807'-8"	M	M173/F5	E113/152	E341/G3	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LC-7328B	Level switch	Square D	DG-253	CB H&V rm	800'-4"	M	M173/C5	E113/152	E341/G7	6
P/ER-7334A	Controller	PENN	P47BA-6	CB H&V rm	800'-4"	M	M173/C6	E113/144	E341/G4	6
P/ER-7334B	Controller	PENN	P47BA-6	CB H&V rm	800'-4"	M	M173/C7	E113/144	E341/F4	6
FT-7320A	Flow transmitter	GE	554	CB H&V rm	800'-4"	M	M173/E7	E113/99	E341/G3	6
FT-7320B	Flow transmitter	GE	554	CB H&V rm	800'-4"	M	M173/E7	E113/99	E341/G7	6
1V-CP-30A	Chilled water pump	Gould Pumps, Inc.	3196MT	RB-N	812'	M	M169/D3	E113/30	M4/F5	6
1V-CP-30B	Chiller water pump	Gould Pumps Inc.	3196MT	RB-N	812'	M	M169/D2	E113/31	M4/F5	6
1T-6924A (1MB305)	Compressor motor	GE	9173028	RB-N	812'	M	M169/C3	E113/30	E322/G5	6
1T-6924B (1MB405)	Compressor motor	GE	9173029	RB-N	812'	M	M169/C2	E113/31	E322/F5	6
HS-6104A	Hand switch	GE	CR2940-US203E	CB ctl rm	786'	M	M161/G5	E113/27	E338/E4	6
HS-6104B	Hand switch	GE	CR2940-US203E	CB ctl rm	786'	M	M161/E5	E113/27	E338/E4	6
HS-6113A	Hand switch	GE	CR2940-US203E	CB ctl rm	786'	M	M161/F6	E113/26	E338/E4	6
HS-6113B	Hand switch	GE	CR2940-US203E	CB ctl rm	786'	M	M161/D6	E113/26	E338/E4	6
HS-7304A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/H6	E113/37	E338/E4	6
HS-7304B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/E6	E113/37	E338/E4	6
HS-6924A	Hand switch	GE	SBM	CB ctl rm	786'	M	M169/D4	E113/32	E338/E4	6
HS-6924B	Hand switch	GE	SBM	CB ctl rm	786'	M	M169/D1	E113/32	E338/E4	6
HS-7301A	Hand switch	GE	CR2940-UB203A	CB ctl rm	786'	M	M173/H7	E113/35	E338/E4	6
HS-7301B	Hand switch	GE	CR2940-UB203A	CB ctl rm	786'	M	M173/D7	E113/35	E338/E4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-7322A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/F4	E113/39	E338/E4	6
HS-7322B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/C4	E113/39	E338/E4	6
HS-7318A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/G3	E113/35	E338/E4	6
HS-7318B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/D3	E113/35	E338/E4	6
HS-7319A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/H2	E113/35	E338/E4	6
HS-7319B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M173/E2	E113/35	E338/E4	6
HS-6132A	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M161/E1	E113/40	E328/E4	6
HS-6132B	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M161/F1	E113/40	E338/E4	6
HS-6132C	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M161/F1	E113/40	E338/E4	6
HS-6131	Hand switch	GE	CR2940-UB202A	CB ctl rm	786'	M	M161/E7	E113/20	E338/E4	6
HS-6102	Hand switch	GE	CR2940	CB ctl rm	786'	M	M161/F7	E113/19	E338/E4	6
RIM-6101A	Radiation monitor	NMC	GA-2TMO	CB ctl rm	786'	M	M161/H7	E113/35	E338/E4	6
RIM-6101B	Radiation monitor	NMC	GA-2TMO	CB ctl rm	786'	M	M161/G7	E113/35	E338/E4	6
PB-7328A	Pushbutton	GE	CR2940U201	CB ctl rm	786'	M	M173/F4	E113/34	E338/E4	6
PB-7328B	Pushbutton	GE	CR2940U201	CB ctl rm	786'	M	M173/C4	E113/34	E338/E4	6
PB-7329A	Pushbutton	GE	CR2940U201	CB ctl rm	786'	M	M173/F4	E113/34	E338/E4	6
PB-7329B	Pushbutton	GE	CR2940U201	CB ctl rm	786'	M	M173/C4	E113/34	E338/E4	6
PB-7316A	Pushbutton	GE	CR2940U201	CB ctl rm	786'	M	M173/H3	E113/35	E338/E4	6
PB-7316B	Pushbutton	GE	CR2940U201	CB ctl rm	786'	M	M173/E3	E113/35	E338/E4	6
LR-7315A	Lockout relay	Westinghouse	WL-3573A45-G01	CB ctl rm	786'	M	M173/H4	E113/36	E338/E4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LR-7315B	Lockout relay	Westinghouse	WL-3573A45-G01	CB ctl rm	786'	M	M173/E4	E113/36	E338/E4	6
SQ-7321A	Converter	GE	565	CB ctl rm	807'-8"	M	M173/F6	E113/99	E341/G3	6
SQ-7321B	Converter	GE	565	CB ctl rm	800'-4"	M	M173/F6	E113/99	E341/G7	6
FS-7321A	Flow switch	GE	560	CB ctl rm	786'	M	M173/F5	E113/35	E338/E4	6
FS-7321B	Flow switch	GE	560	CB ctl rm	786'	M	M173/E5	E113/35	E338/E4	6
FIC-7320A	Flow indicating controller	GE	540-01	CB ctl rm	786'	M	M173/F5	E113/99	E338/E4	6
FIC-7320B	Flow indicating controller	GE	540-01	CB ctl rm	786'	M	M173/F5	E113/99	E338/E4	6
E/PC-7320A	Converter	Johnson Controls	N-6810	CB H&V rm	807'-8"	M	M173/F2	E113/99	E341/G3	6
E/PC-7320B	Converter	Johnson Controls	N-6810	CB H&V rm	800'-4"	M	M173/E2	E113/99	E341/G7	6
HS-6104U	Control switch (switchgear)	GE	CR2940-US203E	E SWGR rm	757'-6"	M	M161/H5	E113/27	E335/NS	6
HS-6104V	Control switch (switchgear)	GE	CR2940-US203E	E SWGR rm	757'-6"	M	M161/E6	E133/27	E335/NS	6
HS-6924X	Hand switch	GE	CR2940-UN200D	RB-N	812'	M	M169/D4	E113/30	E322/F5	6
HS-6924Y	Hand switch	GE	CR2940-UN200D	RB-N	812'	M	M169/D1	E113/31	E322/G5	6
HS-6924U	Hand switch	GE	CR2940-UB203A	RB-N	812'	M	M169/D4	E113/30	E322/F5	6
HS-6924V	Hand switch	GE	CR2940-UB203A	RB-N	812'	M	M161/D1	E113/31	E335/G5	6
HS-6113U	Control switch (switchgear)	GE	CR2940-US203E	E SWGR rm	757'-6"	M	M161/S6	E113/26	E335/NS	6
HS-6113V	Control switch (switchgear)	GE	CR2940-US203E	E SWGR rm	757'-6"	M	M161/D6	E113/26	E335/NS	6

SYSTEM: STANDBY DIESEL GENERATOR ROOM VENTILATION (SYSTEM 20)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1V-SF-20	Supply fan	Joy	SF-31060, Series 1000	DG room	757'-6"	M	M170/G7	E113/52	M625/C3	6
1V-SF-21	Supply fan	Joy	SF-3160-1, Series 1000	DG room	757'-6"	M	M170/E8	E113/52	M625/C3	6
HS-7000A	Hand switch	GE	CR2940 US203E	CB ctl rm	786'	M	M170/G6	E113/52	E338/E4	6
HS-7000B	Hand switch	GE	CR2940 US203E	CB ctl rm	786'	M	M170/E7	E113/52	E338/E4	6
HS-7003A	Hand switch	GE	CR2940-US203E	DG room	757'-6"	M	M170/G6	E113/52	E310/G6	6
HS-7003B	Hand switch	GE	CR3940-US203E	DG room	757'-6"	M	M170/E5	E113/52	E310/F6	6
SV-7000A	Solenoid valve	Johnson Service Co.	V-24	DG room	757'-6"	M	M170/G7	E113/52	E310/G6	6
SV-7000B	Solenoid valve	Johnson Service Co.	V-24	DG room	757'-6"	M	M170/E7	E113/52	E310/F6	6
SV-7001A	Solenoid valve	Johnson Service Co.	V-24-173	DG room	757'-6"	M	M170/G7	E113/52	E310/G6	6
SV-7001B	Solenoid valve	Johnson Service Co.	V-24-173	DG room	757'-6"	M	M170/E5	E113/52	E310/F6	6
SV-7002A	Solenoid valve	Johnson Service Co.	V-24-173	DG room	757'-6"	M	M170/G7	E113/52	E310/G6	6
SV-7002B	Solenoid valve	Johnson Service Co.	V-24-173	DG room	757'-6"	M	M170/E5	E113/52	E310/F6	6

SYSTEM: EMERGENCY SERVICE WATER PUMP ROOM HEATING AND VENTILATING (SYSTEM 21)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-7539A	Solenoid valve	Johnson Controls	V-24	Pumphouse	762'	M	M175/F7	E113/79	E347/G7	6
SV-7539B	Solenoid valve	Johnson controls	V-24	Pumphouse	762'	M	M175/F8	E113/79	E347/G7	6
SV-7538A	Solenoid valve	Johnson controls	V-24	Pumphouse	762'	M	M175/E7	E113/79	E347/G7	6
SV-7538B	Solenoid valve	Johnson controls	V-24	Pumphouse	762'	M	M175/E8	E113/79	E347/G7	6
SV-7536	Solenoid valve	Johnson controls	V-24	Pumphouse	762'	M	M175/H7	E113/79	E347/G7	6
SV-7537	Solenoid valve	Johnson	V-24	Pumphouse	762'	M	M175/G8	E113/79	E347/G7	6
1V-SF-56A	Supply fan	Joy	SF-29448, Series 1000	Pumphouse	761'	M	M175/G7	E113/79	M679/G7	6
1V-SF-56B	Supply fan	Joy	SF-29448, Series 1000	Pumphouse	761'	M	M175/G8	E113/79	M679/G7	6
TIC-7538A	Temperature indicating controller	Penn	T2J-1	Pumphouse	747'6"	M	M175/E7	E113/79	M679/E7	6
TIC-7538B	Temperature indicating controller	Penn	T2J-1	Pumphouse	747'6"	M	M175/E8	E113/79	M679/E7	6
HS-7538A	Hand switch	GE	CR2940-UB2037	Pumphouse	761'	M	M175/E7	E113/79	E347/G7	6
HS-7538B	Hand switch	GE	CR2940-UB2037	Pumphouse	761'	M	M175/E8	E113/79	E347/G7	6
TS-7540A	Temperature switch	Penn	A19BAC-1	Pumphouse	761'	M	M175/E7	E113/79	E347/G7	6
TS-7540B	Temperature switch	Penn	A19BAC-1	Pumphouse	761'	M	M175/E8	E113/79	E347/G7	6
TS-7538C	Temperature switch	Penn	T2J-1	Pumphouse	747'-6"	M	M175/E7	E113/79	E347/G7	6
TS-7538D	Temperature switch	Penn	T2J-1	Pumphouse	747'-6"	M	M175/E8	E113/79	E347/G7	6

SYSTEM: INTAKE STRUCTURE HEATING AND VENTILATING (SYSTEM 22)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1V-UH-52A	Unit heater	Chromalox	LUH12-18	Intake str	764'	M	M117/H8	E128/3	M667/F6	6
1V-UH-52B	Unit heater	Chromalox	LUH12-18	Intake str	764'	M	M117/H8	E128/7	M667/G6	6
1V-UH-52C	Unit heater	Chromalox	LUH12-18	Intake str	764'	M	M117/H8	E128/3	M667/F7	6
1V-UH-52D	Unit heater	Chromalox	LUH12-18	Intake str	764'	M	M117/H8	E128/7	M667/G7	6
1V-UH-52E	Unit heater	Chromalox	LUH12-18	Intake str	777'	M	M177/H8	E128/3	M667/F2	6
1V-UH-52F	Unit heater	Chromalox	LUH12-18	Intake str	777'	M	M177/H8	E128/7	M667/G2	6
1V-UH-52G	Unit heater	Chromalox	LUH12-18	Intake str	777'	M	M177/H8	E128/3	M667/F4	6
1V-UH-52H	Unit heater	Chromalox	LUH12-18	Intake str	777'	M	M177/H8	E128/7	M667/G4	6
TS-7701	Temperature switch	Chromalox	972D	Intake str	764'	M	M177/H8	E128/3	M667/F6	6
TS-7702	Temperature switch	Chromalox	972D	Intake str	764'	M	M177/H8	E128/7	M667/G6	6
TS-7703	Temperature switch	Chromalox	972D	Intake str	764'	M	M177/H8	E128/3	M667/F7	6
TS-7704	Temperature switch	Chromalox	972D	Intake str	764'	M	M177/H8	E128/7	M667/G7	6
TS-7705	Temperature switch	Chromalox	972D	Intake str	777'	M	M177/H8	E128/3	M667/F2	6
TS-7706	Temperature switch	Chromalox	972D	Intake str	777'	M	M177/H8	E128/7	M667/G2	6
TS-7707	Temperature switch	Chromalox	972D	Intake str	777'	M	M177/H8	E128/3	M667/F4	6
TS-7708	Temperature switch	Chromalox	972D	Intake str	777'	M	M177/H8	E128/7	M667/G4	6
1V-SF-50	Supply fan	Joy	SF-302060, Series 1000	Intake str	767'	M	M177/G6	E113/63	M17/E7	6
1V-SF-51	Supply fan	Joy	SF-302061, Series 1000	Intake str	767'	M	M177/G6	E113/63	M17/D7	6
HS-7714A	Hand switch	GE	CR2940-UB202D	Intake str	767'	M	M177/F6	E113/63	E348/C7	
HS-7714B	Hand switch	GE	CR2940-UB202D	Intake str	767'	M	M177/F6	E113/63	E348/B7	

SYSTEM: [illegible]VER WATER SUPPLY SYSTEM (SYSTEM 24)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-117A	Water supply pump	Layne & Bowler Pump Co.	M-10	Intake str	767'	M	M129/D7	E111/11	E348/C6	6
1P-117B	Water supply pump	Layne & Bowler Pump Co.	M-10	Intake str	767'	M	M129/D4	E111/11	E348/B6	6
1P-117C	Water supply pump	Layne & Bowler Pump Co.	M-10	Intake str	767'	M	M129/D6	E111/11	E348/C6	6
1P-117D	Water supply pump	Layne & Bowler Pump Co.	M-10	Intake str	767'	M	M129/D3	E111/11	E348/B6	6
ZS-2902	Position switch	Limitorque	SMB-000-2	Intake str	754'	M	M129/C7	E111/15	E348/F5	6
ZS-2903	Position switch	Limitorque	SMB-000-2	Intake str	754'	M	M129/C3	E111/15	E348/E5	6
MO-2902	Motor-operated valve	Limitorque	SMB-000-2	Intake str	754'	M	M129/C7	E111/15	E348/F5	6
MO-2903	Motor-operated valve	Limitorque	SMB-000-2	Intake str	754'	M	M129/C3	E111/15	E348/E5	6
PS-2902	Pressure switch	Barksdale	D2TM150SSP2	Intake str	754'	M	M129/C7	E111/10	E348/F5	6
PS-2903	Pressure switch	Barksdale	D2TM150SSP2	Intake str	754'	M	M129/C3	E111/10	E348/E5	6
1F-36A	Traveling screen motor	Reliance	P1461403	Intake str	754'	M	M129/B6	E111/10	E348/C5	6
1F-36B	Traveling screen motor	Reliance	P1461403	Intake str	754'	M	M129/B4	E111/10	E348/B5	6
1P-112A	Screen wash pump	Gould Pumps, Inc.	3196MT	Intake str	754'	M	M129/D8	E111/9	E348/F6	6
1P-112B	Screen wash pump	Gould Pumps, Inc.	3196MT	Intake str	754'	M	M129/D3	E111/9	E348/E6	6
HS-2908A	Hand switch (switchgear)			Intake str	767'	M	M129/D7	E111/11	E348	6
HS-2908B	Hand switch (switchgear)			Intake str	767'	M	M129/D4	E111/11	E348	6
HS-2908C	Hand switch (switchgear)			Intake str	767'	M	M129/D6	E111/11	E348	6
HS-2908D	Hand switch (switchgear)			Intake str	767'	M	M129/D3	E111/11	E348	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
KY-2903A	Time delay relay (switchgear room)	Paragon	Crim			M	M129/C2	E111/10	E348/	6
KY-2903B	Time delay relay (switchgear room)	Paragon	Crim			M	M129/B2	E111/10	E348/	6
KY-2903C	Time delay relay (switchgear room)					M	M129/B2	E111/9	E348/	6
KY-2902A	Time delay relay (switchgear room)	Paragon	Crim			M	M129/C8	E111/10	E348/	6
KY-2902B	Time delay relay (switchgear room)	Paragon	Crim			M	M129/B8	E111/10	E348/	6
KY-2902C	Time delay relay (switchgear room)					M	M129/B8	E111/9	E348/	6
1S-85A	Screen wash water strainer	GE	5K42F6	Intake str	754'	M	M129/E8	E111/21	E348/C5	6
1S-85B	Screen wash water strainer	GE	5K42F6	Intake str	754'	M	M129/E2	E111/21	E348/B5	6
MO-2910A	Motor operator	Zurn Industries	MAR-8	Intake str	754'	M	M129/F8	E111/21	E348/G6	6
MO-2910B	Motor operator	Zurn Industries	MAR-8	Intake str	754'	M	M129/F2	E111/21	E348/E6	6
PDS-2910A	Differential pressure switch	Industries	150 Industries	Intake str	754'	M	M129/F7	E111/21	E348/G6	6
PDS-2910B	Differential pressure switch	Zurn Industries	150	Intake str	754'	M	M129/F3	E111/21	E348/E6	6
SV-4914	Solenoid valve	ASCo	8320A6	Pumphouse	727'	M	M146/F6	E111/13	E347/C6	6
SV-4915	Solenoid valve	ASCo	8320A6	Pumphouse	727'	M	M146/F7	E111/13	E347/C7	6
SV-4909	Solenoid valve	ASCo	8320A6	Pumphouse	727'	M	M146/H6	E111/13	E347/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
HS-2906A	Hand switch (switchgear)	GE	CR2940-UB203	Intake str	767'	M	M129/D8	E111/9	E348/G6	6
HS-2906B	Hand switch (switchgear)	GE	CR3940-UB203	Intake str	767'	M	M129/D2	E111/9	E348/E6	6
SV-4910A	Solenoid valve	ASCo	8320A6	Pumphouse	727'	M	M146/H7	E111/13	E347/D5	6
SV-4910B	Solenoid valve	ASCo	8320A6	Pumphouse	727'	M	M146/H8	E111/13	E347/C5	6
KY-2908A	Time delay relay	Agastat	7012-PFLL	CB ctl rm	786'	M	M129/D7	E111/11	E338/E4	6
KY-2908B	Time delay relay	Agastat	7012-PFLL	CB ctl rm	786'	M	M129/D4	E111/11	E338/E4	6
KY-2908C	Time delay relay	Agastat	7012-PFLL	CB ctl rm	786'	M	M129/D6	E111/11	E338/E4	6
KY-2908D	Time delay relay	Agastat	7012-PFLL	CB ctl rm	786'	M	M129/D3	E111/11	E338/E4	6
HS-2902A	Hand switch	GE	SBM	Intake str	754'	M	M129/C7	E111/10	E348/C5	6
HS-2902B	Hand switch	GE	SBM	Intake str	754'	M	M129/C7	E111/10	E348/C5	6
HS-2903A	Hand switch	GE	SBM	Intake str	754'	M	M129/C3	E111/10	E348/B5	6
HS-2903B	Hand switch	GE	SBM	Intake str	754'	M	M129/C3	E111/10	E348/B5	6
HS-4914	Hand switch	GE	CR2940-UA202B	CB ctl rm	786'	M	M146/F6	E111/13	E338/E4	6
HS-4915	Hand switch	GE	CR3940-UA202B	CB ctl rm	786'	M	M146/F7	E111/13	E338/E4	6
HS-4909A	Hand switch	GE	SBM	CB ctl rm	786'	M	M146/H6	E111/13	E338/E4	6
HS-4909B	Hand switch	GE	SBM	Pumphouse	727'	M	M146/H6	E111/13	E347/C5	6
HS-2907A	Hand switch	GE	SBM	CB ctl rm	786'	M	M129/D7	E111/11	E338/E4	6
HS-2907B	Hand switch	GE	SBM	CB ctl rm	786'	M	M129/D4	E111/11	E338/E4	6
HS-2907C	Hand switch	GE	SBM	CB ctl rm	786'	M	M129/D6	E111/11	E338/E4	6
HS-2907D	Hand switch	GE	SBM	CB ctl rm	786'	M	M129/D3	E111/11	E338/E4	6
HSS-2911A	Hand switch	GE	SBM	CB ctl rm	786'	M	M129/D7	E111/11	E338/E4	6
HSS-2911B	Hand switch	GE	SBM	CB ctl rm	786'	M	M129/D4	E111/11	E338/E4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PDIS-2902	Differential pressure indicating switch	Barton	289	Intake str	767'	M	M129/B8	E111/10	E348/F6	6
PDIS-2903	Differential pressure indicating switch	Barton	289	Intake str	767'	M	M129/B3	E111/10	E348/F6	6
HS-2910A	Hand switch	GE	CR2940	Intake str	754'	M	M129/F8	E111/21	E348/G6	6
HS-2910B	Hand switch	GE	CR2940	Intake str	754'	M	M129/F2	E111/21	E348/E6	6
HS-4910A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M146/H8	E111/13	E338/E4	6
HS-4910B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M146/H8	E111/13	E338/E4	6

SYSTEM: ELECTRICAL AND CONTROL PANELS (SYSTEM 25)

DELETED

In our initial response, we considered a panel and all its components as one piece of equipment, and therefore qualified the panel in its entirety. For this response, we have investigated each component individually. Consequently System 25 (Electrical and Control Panels) has been deleted.

SYSTEM: PUMPHOUSE DRAIN SUMP (SYSTEM 26)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-132A	Drain sump pump	Crane Company	GA-1K-ISO	Pumphouse	727'	M	M146/F5	E111/16A	E347/D4	6
1P-132B	Drain sump pump	Crane Company	GA-1K-ISO	Pumphouse	727'	M	M146/F5	E111/16A	E347/D4	6
HS-4936A	Control switch	GE	CR2940-BC301A	Pumphouse	727'	M	M146/G5	E111/16A	E347/D4	6
HS-4936B	Control switch	GE	CR2940-BC301A	Pumphouse	727'	M	M146/G5	E111/16A	E347/D4	6
LS-4936A	Level switch	Borg/Warner	E-4-51-1201	Pumphouse	727'	M	M146/F5	E111/16A	E347/D4	6
LS-4936B	Level switch	Borg/Warner	E-4-51-1201	Pumphouse	727'	M	M146/F5	E111/16A	E347/D4	6
LE-4936A	Level sensor	Borg/Warner Controller Group	E-4(10-493)	Pumphouse	727'	M	M146/F5	E111/16A	E347/C4	6
LE-4936B	Level sensor	Borg/Warner Controller Group	E-4(10-493)	Pumphouse	727'	M	M146/F5	E111/16A	E347/D4	6

SYSTEM: LEAK DETECTION (SYSTEM 27)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-2742A (G31-N016A)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU PR	816'	H	M127/A8	E124/7	M657/E4	2
TE-2742B (G31-N016B)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU PR	786'	H	M124/A8	E124/7	M657/E3	2
TE-2742C (G31-N016C)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/7	M657/E3	2
TE-2742D (G31-N016D)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/7	M657/E4	2
TE-2742E (G31-N016E)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/7	E657/E6	2
TE-2742F (G31-N016F)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/7	M657/F5	2
TE-2743A (G31-N022A)	Temperature element (reactor water cleanup)	NECI	M145C3224	RWCU PR	786'	H	M127/A8	E124/6	M657/E4	2
TE-2743B (G31-N022B)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU PR	786'	H	M127/A8	E124/6	M657/E3	2
TE-2743C (G31-N022C)	Temperatue element (reactor water cleanup)	NECI	N145C3224	RWCU PR	786'	H	M127/A8	E124/6	M657/E4	2
TE-2743D (G31-N022D)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/6	M657/F6	2

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-2743E (G31-N022E)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/6	M657/F6	2
TE-2743F (G31-N022F)	Tempeature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/6	M657/E5	2
TE-2744A (31-N023A)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU PR	786'	H	M127/A8	E124/6	M657/F4	2
TE-2744B (31-N023B)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU PR	786'	H	M127/A8	E124/6	M657/F4	2
TE-2744C (31-N023C)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU PR	786'	H	M127/A8	E124/6	M657/E4	2
TE-2744D (31-N023D)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/6	M657/E4	2
TE-2744E (31-N023E)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/6	M657/E4	2
TE-2744F (31-N023F)	Temperature element (reactor water cleanup)	NECI	N145C3224	RWCU hxr	786'	H	M127/A8	E124/6	M657/F5	2
TE-2526A (E51-N025A)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	755'	H	M125/B4	E124/6	M646/F4	2
TE-2526B (E51-N025B)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	755'	H	M125/B2	E124/6	M646/B8	2
TE-2526C (E51-N025C)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-S	755'	H	M125/A4	E124/6	M660/D4	2

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-2526D (E51-N025D)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	755'	H	M125/A2	E124/6	M646/B2	2
TE-2522A (E51-N026A)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	755'	H	M125/B4	E124/6	M646/C3	2
TE-2522B (E51-N026B)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-S	755'	H	M125/B3	E124/6	M660/H8	2
TE-2522C (E51-N026C)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-S	754'	H	M125/A4	E124/6	M660/F7	2
TE-2522D (E51-N026D)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-S	755'	H	M125/A3	E124/6	M660/D5	2
TE-2523A (E51-N027A)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	741'	H	M125/B4	E124/6	E316/E3	2
TE-2523B (E51-N027B)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	741'	H	M125/B3	E124/6	E316/E3	2
TE-2523C (E51-N027C)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	741'	H	M125/A4	E124/6	E316/E3	2
TE-2523D (E51-N027D)	Temperature element (suppression pool)	NECI	N145C3023	Torus rm-N	741'	H	M125/A3	E124/6	E316/E3	2
TE-2451A (E51-N023A)	Temperature element (RCIC)	NECI	N145C3023	RCIC room	724'	H	M124/B7	E124/7	E317/C5	2
TE-2451B (E51-N023B)	Temperature element (RCIC)	NECI	N145C3023	RCIC room	724'	H	M124/B7	E124/7	E317/C5	2
TE-2446A (E51-N021A)	Temperature element (RCIC)	NECI	N145C3023	RCIC room	750'	H	M124/B8	E124/6	E317/C6	2
TE-2446B (E51-N021B)	Temperature element (RCIC)	NECI	N145C3023	RCIC room	750'	H	M124/B8	E124/6	E317/C6	2
TE-2447A (E51-N022A)	Temperature element (RCIC)	NECI	N145C3023	RCIC room	726'	H	M124/B8	E124/6	E317/D5	2
TE-2447B (E51-N022B)	Temperature element (RCIC)	NECI	N145C3023	RCIC room	725'	H	M124/B8	E124/6	E317/D5	2

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-2264A (E41-N030A)	Temperature element (HPCI)	NECI	N145C3023	HPCI room	747'	H	M122/A2	E124/7	E317/C3	2
TE-2264B (E41-N030B)	Temperature element (HPCI)	NECI	N145C3023	HPCI room	747'	H	M122/A2	E124/7	E317/C3	2
TE-2262A (E41-N028A)	Temperature element (HPCI)	NECI	N145C3023	HPCI room	732'	H	M122/A4	E124/6	E317/C2	2
TE-2262B (E41-N028B)	Temperature element (HPCI)	NECI	N145C3023	HPCI room	732'	H	M122/A4	E124/6	E317/C2	2
TE-2263A (E41-N029A)	Temperature element (HPCI)	NECI	N145C3023	HPCI room	725'	H	M122/A3	E124/6	M661/D4	2
TE-2263B (E41-N029B)	Temperature element (HPCI)	NECI	N145C3023	HPCI room	725'	H	M122/A3	E124/6	M661/D4	2
FT-2725 (G31-N012)	Flow transmitter	GE	555-111BC AA3PDG	RB-N	812'	H	M127/D5	E120/4	E322/D4	4
PS-1014 (B21-N015A)	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/F7	E122/9	E304/B6	6
PS-1015 (B21-N015B)	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/F7	E122/9	E304/B7	6
PS-1016 (B21-N015C)	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/F6	E122/9	E304/B7	6
PS-1017 (B21-N015D)	Pressure switch	Barksdale	B2T-M12SS	TB-N	734'	M	M103/F7	E122/9	E304/B7	6
TE-4443A	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/D3	12
TE-4443B	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/D3	12
TE-4443C	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H1	E122/9	E328/D4	12
TE-4443D	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	763'	H	M114/H1	E122/9	E328/D4	12
TE-4444A	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	763'	H	M114/H1	E122/9	E328/C2	12
TE-4444B	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H1	E122/9	E328/C3	12
TE-4444C	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/C3	12

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-4444D	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/C4	12
TE-4445A	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H1	E122/9	E328/E2	12
TE-4445B	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H1	E122/9	E328/E3	12
TE-4445C	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/E3	12
TE-4445D	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/E4	12
TE-4446A	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H1	E122/9	E328/E2	12
TE-4446B	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	763'	H	M114/H1	E122/9	E328/E3	12
TE-4446C	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	763'	H	M114/H2	E122/9	E328/E3	12
TE-4446D	Temperature element (MSL)	Rosemount	104MA23ABBB	Stm tunnel	758'	H	M114/H2	E122/9	E328/E4	12
TE-4477A	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/E6	E122/9	E309/D8	12
TE-4477B	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/F8	E122/9	E308/D7	12
TE-4478A	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/F7	E122/9	E309/D8	12
TE-4478B	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/F7	E122/9	E308/C7	12
TE-4479A	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/E6	E122/9	E309/E8	12
TE-4479B	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/G8	E122/9	E308/D7	12
TE-4480A	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/G8	E122/9	E308/D7	12
TE-4480B	Temperature element (MSL)	Rosemount	104MA23ABBB	TB	767'	H	M103/F8	E122/9	E308/D7	12
TS-2742A (G31-N600A)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M127/B8	E124/7	E338/C4	6

SYSTEM: LEAK DETECTION (SYSTEM 27)

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TS-2742B (G31-N600B)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M127/B8	E124/7	E338/C4	6
TS-2742C (G31-N600C)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M127/B8	E124/7	E338/C4	6
TS-2742D (G31-N600D)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M127/B8	E124/7	E338/C4	6
TS-2742E (G31-N600E)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M127/B8	E127/7	E338/C4	6
TS-2742F (G31-N600F)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M127/B8	E124/7	E338/C4	6
TDS-2743A (G31-N602A)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M127/B8	E124/7	E338/C4	6
TDS-2743B (G31-N602B)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M127/B8	E124/6	E338/C4	6
TDS-2743C (G31-N602C)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M127/B8	E124/6	E338/C4	6
TDS-2743D (G31-N603D)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M127/B8	E124/6	E338/C4	6
TDS-2743E (G31-N603E)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M127/B8	E124/6	E338/C4	6
TDS-2743F (G31-N603F)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M127/B8	E124/6	E338/C4	6
TDS-2521A (E51-N604A)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M125/B4	E124/6	E338/C4	6
TDS-2521B (E51-N604B)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M125/B3	E124/6	E338/C4	6
TDS-2521C (E51-N604C)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M125/A4	E124/6	E338/C4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TDS-2521D (E51-N604D)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M125/A3	E124/6	E338/C4	6
FT-2747 (G31-N036)	Flow transmitter	GE	565	CB ctl rm	786'	M	M127/G5	E120/14	M405-3/C6	6
FT-2748 (G31-N041)	Flow transmitter	GE	555	CB ctl rm	786'	M	M127/F5	E120/14	M405-3/C6	6
TS-2526A (E51-N603A)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M125/B4	E124/6	E338/C4	6
TS-2526B (E51-N603B)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M125/B2	E124/7	E338/C4	6
TS-2526C (E51-N603C)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M125/A4	E124/7	E338/C4	6
TS-2526D (E51-N603D)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M125/A2	E124/7	E338/C4	6
KS-2524A (E51-M602A)	Timer	Eagle Signal	HP57A607	CB ctl rm	786'	M	M125/B3	E124/6	E338/C4	6
KS-2524B (E51-M602B)	Timer	Eagle Signal	HP57A607	CB ctl rm	786'	M	M125/A3	E124/6	E338/C4	6
KS-2525A (E51-M603A)	Timer	Eagle Signal	HP57A607	CB ctl rm	786'	M	M125/B3	E124/6	E338/C4	6
KS-2525B (E51-M603B)	Timer	Eagle Signal	HP57A607	CB ctl rm	786'	M	M125/A3	E124/6	E338/C4	6
HS-2267A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/A3	E124/7	E338/C4	6
HS-2267B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M122/A3	E124/7	E338/C4	6
HS-2449A	Hand switch	GE	CR2940	CB ctl rm	786'	M	M124/B7	E124/6	E338/C4	6
HS-2449B	Hand switch	GE	CR2940	CB ctl rm	786'	M	M124/A7	E124/6	E338/C4	6
TDS-2445A (E51-N601A)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M124/B8	E124/6	E338/C4	6
TDS-2445B (E51-N601B)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M124/A8	E124/6	E338/C4	6
TS-2450A (E51-N602A)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M124/B7	E124/7	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TS-2450B (E51-N602B)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M124/A7	E124/7	E338/D5	6
TS-2261A (E41-N602A)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M122/B3	E124/6	E338/C4	6
TS-2261B (E41-N602B)	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M122/B4	E124/6	E338/C4	6
TDS-2260A (E41-N601A)	Temperature differential switch	Transmation	610A	CB ctl rm	786'	M	M122/A4	E124/6	E338/C4	6
TDS-2260B (E41-N601B)	Temperature differential switch	Transmation	610A	CB ctl rm	786'	M	M122/A4	E124/6	E338/C4	6
TDS-2085A (E11-N601A)	Temperature differential switch	Transmation	630A	CB ctl rm	786'	M	M120/G7	E124/7	E338/C4	6
TIS-4443	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4444	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4445	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4446	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4477	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	734'	M	M103/F8	E122/9	E304/B6	6
TIS-4478	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	734'	M	M103/F8	E122/9	E304/B7	6
TIS-4479	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	734'	M	M103/G8	E122/9	E304/B7	6
TIS-4480	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	734'	M	M103/G8	E122/9	E304/B7	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PDIS-2244 (E41-N004)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M122/F5	E121/24	E319/E5	6
PDIS-2245 (E41-N005)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M122/F6	E121/24	E319/E4	6
PS-2246A (E41-N001A)	Pressure switch	Barksdale	B2T-M12SS	RB-S	757'-6"	M	M122/F5	E121/24	E319/E4	6
PS-2246C (E41-N001B)	Pressure switch	Barksdale	B2T-M12SS	RB-S	757'-6"	M	M122/E5	E121/24	E319/E4	6
PS-2246B (E41-N001C)	Pressure switch	Barksdale	B2T-M12SS	RB-S	757'-6"	M	M122/F5	E121/24	E319/E5	6
PS-2246D (E41-N001D)	Pressure switch	Barksdale	B2T-M12SS	RB-S	757'-6"	M	M122/E5	E121/24	E319/E5	6
PDIS-2441 (E51-N017)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M124/F5	E121/37	E318/F4	6
PDIS-2442 (E51-N018)	Pressure differential indicating switch	Barton	288	NE crnr rm	716'-9"	M	M124/F5	E121/37	E316/E2	6
PS-2443A (E51-N019A)	Pressure switch	Barksdale	B2T-M12SS	RB-N	716'-9"	M	M124/F5	E121/37	F318/F4	6
PS-2443B (E51-N019B)	Pressure switch	Barksdale	B2T-M12SS	NE crnr rm	716'-9"	M	M124/F5	E121/37	E316/E2	6
PS-2443C (E51-N019C)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M124/F5	E121/37	E318/F4	6
PS-2443D (E51-N019D)	Pressure switch	Barksdale	B2T-M12SS	NE crnr rm	757'-6"	M	M124/F5	E121/37	E320/E2	6
FS-2749A (G31-N603A)	Flow switch	GE	560	CB ctl rm	786'	M	M127/G6	E120/14	E338/D5	6
FS-2749B (G31-N603B)	Flow switch	GE	560	CB ctl rm	786'	M	M127/G6	E120/14	E338/D5	6
FY-2749 (G31-K604)	Square root converter	GE	565	CB ctl rm	786'	M	M127/G5	E120/14	E338/D5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
FY-2748 (G31-K603)	Square root converter	GE	565	CB ctl rm	786'	M	M127/G5	E120/14	E338/D5	6
E/S-2748 (G31-K600)	Power supply	GE	145C3016-P001	CB ctl rm	786'	M	M127/G6	E120/14	E338/D5	6
FT-2748 (G31-N041)	Flow transmitter	GE	555	RB-S	786'	M	M127/G5	E120/14	E321/E3	6
FY-2747 (G31-K602)	Square root converter	GE	565	CB ctl rm	786'	M	M127/G5	E120/14	E338/D5	6
FT-2747 (G31-R609)	Flow transmitter	GE	555	RB-S	786'	M	M127/F5	E120/14	E321/C6	6
FY-2725 (G31-K605)	Square root converter	GE	565	CB ctl rm	786'	M	M127/D5	E120/14	E338/D5	6
E/S-2725 (G31-K600)	Power supply	GE	145C3016-P001	CB ctl rm	786'	M	M127/D5	E120/14	E338/D5	6
PDIS-4432A (B21-N006A)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M114/E2	E122/9	E318/D3	6
PDIS-4432B (B21-N006B)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M114/E2	E122/9	E318/D3	6
PDIS-4432C (B21-N006C)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/E2	E122/9	E319/E4	6
PDIS-4432D (B21-N006D)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/E2	E122/9	E319/E4	6
PDIS-4434A (B21-N007A)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/C8	E122/9	E319/E5	6
PDIS-4434B (B21-N007B)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/C8	E122/9	E319/E5	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PDIS-4434C (B21-N007C)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/C8	E122/9	E319/E4	6
PDIS-4434D (B21-N007D)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/C7	E122/9	E319/E4	6
PDIS-4436A (B21-N008A)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M114/C2	E122/9	E318/D3	6
PDIS-4436B (B21-N008B)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M114/C2	E122/9	E318/D3	6
PDIS-4436C (B21-N008C)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/C2	E122/9	E319/E4	6
PDIS-4436D (B21-N008D)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/C2	E122/9	E319/E4	6
PDIS-4438A (B21-N009A)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M114/E7	E122/9	E318/D3	6
PDIS-4438B (B21-N009B)	Pressure differential indicating switch	Barton	288	RB-N	757'-6"	M	M114/E8	E122/9	E318/D3	6
PDIS-4438C (B21-N007C)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/E8	E122/9	E319/E4	6
PDIS-4438D (B21-N009D)	Pressure differential indicating switch	Barton	288	RB-S	757'-6"	M	M114/E8	E122/9	E319/E4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-4300	Solenoid valve	ASCo	831665	NE crnr rm	751'	H	M143/D7	E122/12	E316/E2	1
SV-4301	Solenoid valve	ASCo	831665	NE crnr rm	751'	H	M143/C8	E122/13	E316/E2	1
SV-4302	Solenoid valve	ASCo	166586	RB-N	812'	M	M143/D7	E122/12	E322/D4	6
SV-4303	Solenoid valve	ASCo	166587	RB-S	833'-6"	M	M143/D7	E122/13	E322/D4	6
SV-4304	Solenoid valve	ASCo	831665	NE crnr rm	740'	H	M143/B7	E122/23	E316/F3	1
PDIS-4304	Pressure differential indicating switch	Barton	P288A	NE crnr rm	741'	H	M143/B7	E122/23	M405-1/G6	4
SV-4305	Solenoid valve	ASCo	831665	NE crnr rm	740'	H	M143/B7	E122/23	E316/F3	1
PDIS-4305	Pressure differential indicating switch	Barton	P288A	NE crnr rm	741'	H	M143/B8	E122/23	M405-1/G6	4
SV-4306	Solenoid valve	ASCo	831665	RHR vlv rm	758'	H	M143/F1	E122/13	E318/E6	1
SV-4307	Solenoid valve	ASCo	831665	RHR vlv rm	758'	H	M143/F2	E122/12	E318/D6	1
PS-4365A	Pressure switch	Barksdale	D1T-A80	RB-S	758'	H	M143/F6	E122/31	E319/E5	10
PS-4365B	Pressure switch	Barksdale	D1T-A80	RB-N	786'	H	M143/D5	E122/31		10
PS-4348	Pressure switch	Barton	289	RB-N	759'	H	M143/C4	E122/12	E318/A5	11
SV-4308	Solenoid	ASCo	831665	RHR vlv rm	758'	H	M143/E3	E122/12	E318/D6	1
SV-4309	Solenoid valve	ASCo	HB83020C25R	NE crnr rm	716'-9"	M	M143/C7	E122/12	E316/E2	6
SV-4310	Solenoid valve	ASCo	831665	CB H&V rm	812'	H	M143/D7	E122/12	E322/D4	3
SV-4311	Solenoid valve	ASCo	831665	RHR vlv rm	761'	H	M143/F3	E122/13	E318/D6	1

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-4312	Solenoid valve	ASCo	831665	RHR vlv rm	761'	H	M143/F3	E122/12	E318/D6	1
SV-4313	Solenoid valve	ASCo	831665	RHR vlv rm	761'	H	M143/F3	E122/12	E318/D6	1
MO-4320A	Gate valve (motor-operated)	Limitorque	SMB-000	Torus rm-N	745'	H	M143/C3	E122/31	E317/B4	7
MO-4320B	Gate valve (motor-operated)	Limitorque	SMB-000	HPCI room	737'	H	M143/C4	E122/31	E317/B3	4
MO-4323A	Globe valve (motor-operated)	Limitorque	SMB-00	TB	757'-6"	M	M143/B3	E122/30	E354/F1	6
MO-4323B	Globe valve (motor-operated)	Limitorque	SMB-00	TB	757'-6"	M	M143/B4	E122/30	E354/F1	6
SV-4333A	Solenoid valve	Target Rock	72V-004	Torus rm-N	745'	H	M143/C2	E122/34	E317/F6	4
SV-4333B	Solenoid valve	Target Rock	72V-004	Torus rm-N	745'	H	M143/C2	E122/34	E317/E6	4
SV-4334A	Solenoid valve	Target Rock	72V-004	Torus rm-N	740'	H	M143/C2	E122/33	E316/D6	4
SV-4334B	Solenoid valve	Target Rock	72V-004	Torus rm-N	740'	H	M143/C2	E122/33	E316/D6	4
SV-4331A	Solenoid valve	Target Rock	72V-004	RHR vlv rm	758'	H	M143/C2	E122/34	E319/G6	4
SV-4331B	Solenoid valve	Target Rock	72V-004	RHR vlv rm	758'	H	M143/C2	E122/34	E319/G6	4
SV-4332A	Solenoid valve	Target Rock	72V-004	RB-S	786'	H	M143/C2	E122/33	E321/F6	4
SV-4332B	Solenoid valve	Target Rock	72V-004	RB-S	786'	H	M143/C2	E122/33	E321/F6	4
SV-8117A	Solenoid valve	Atkomatic	31840	RB-S	757'	H	M181/C7	E122/26	M405-2/C6	13
SV-8117B	Solenoid valve	Atkomatic	31840	RB-N	757'	H	M181/C2	E122/26	M405-2/F6	13

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-8117C	Solenoid valve	Atkomatic	31840	RB-S	757'	H	M181/D6	E122/26	M405-2/C6	13
SV-8117D	Solenoid valve	Atkomatic	31840	RB-N	757'	H	M181/D3	E122/26	M405-2/F6	13
SV-8101A	Solenoid valve	Target Rock	72V-003	RB-S	758'	H	M181/F5	E122/29	E319/E6	4
SV-8101B	Solenoid valve	Target Rock	72V-003	RB-N	758'	H	M181/F4	E122/29	E318/E4	4
SV-8103A	Solenoid valve	Target Rock	72V-003	RB-S	758'	H	M181/F5	E122/29	E319/E6	4
SV-8103B	Solenoid valve	Target Rock	72V-003	RB-N	758'	H	M181/F4	E122/29	E318/E4	4
SV-8102A	Solenoid valve	Target Rock	72V-003	RB-S	758'	H	M181/G5	E122/29	E319/E6	4
SV-8102B	Solenoid valve	Target Rock	72V-003	RB-N	758'	H	M181/G4	E122/29	E318/E4	4
SV-8104A	Solenoid valve	Target Rock	72V-003	RB-S	758'	H	M181/F5	E122/29	E319/E6	4
SV-8104B	Solenoid valve	Target Rock	72V-003	RB-N	758'	H	M181/F4	E122/29	E318/F4	4
SV-8105A	Solenoid valve	Target Rock	72V-003	RB-S	758'	H	M181/E5	E122/29	E319/E6	4
SV-8105B	Solenoid valve	Target Rock	72V-003	RB-N	758'	H	M181/E4	E122/29	E318/E5	4
SV-8106A	Solenoid valve	Target Rock	72V-003	RB-S	758'	H	M181/E5	E122/29	E319/E6	4
SV-8106B	Solenoid valve	Target Rock	72V-003	RB-N	758'	H	M181/E4	E122/29	E318/E5	4
SV-8107A	Solenoid valve	Target Rock	72V-003	Torus rm-N	734'	H	M181/D5	E122/29	E316/D3	4
SV-8107B	Solenoid valve	Target Rock	72V-003	Torus rm-S	735'	H	M181/D4	E122/29	E317/F7	4
SV-8108A	Solenoid valve	Target Rock	72V-003	Torus rm-N	734'	H	M181/E5	E122/29	E316/D3	4
SV-8108B	Solenoid valve	Target Rock	72V-003	Torus rm-S	735'	H	M181/E4	E122/29	E317/F7	4

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-8109A	Solenoid valve	Target Rock	72V-003	Torus rm-S	735'	H	M181/D5	E122/29	E317/E4	4
SV-8109B	Solenoid valve	Target Rock	72V-003	Torus rm-N	734'	H	M181/D4	E122/29	E316/E6	4
SV-8110A	Solenoid valve	Target Rock	72V-003	torus rm-S	735'	H	M181/D5	E122/29	E317/E4	4
SV-8110B	Solenoid valve	Target Rock	72V-003	Torus rm-N	734'	H	M181/D4	E122/29	E316/E6	4
SV-8114A	Solenoid valve	Atkomatic	31840	RB-S	757'	H	M181/G6	E122/26	E319/E6	13
SV-8114B	Solenoid valve	Atkomatic	31840	RB-N	757'	H	M181/G3	E122/26	E318/F6	13
SV-8115A	Solenoid valve	Atkomatic	31840	RB-S	757'	H	M181/F6	E122/26	E319/E6	13
SV-8115B	Solenoid valve	Atkomatic	31840	RB-N	757'	H	M181/F3	E122/26	E318/F6	13
SV-8116A	Solenoid valve	Atkomatic	31840	RB-S	757'	H	M181/E6	E122/26	E319/E6	13
SV-8116B	Solenoid valve	Atkomatic	31840	RB-N	757'	H	M181/E3	E122/26	E318/F6	13
SV-8112A	Solenoid valve			RB-S	757'-6"	M	M181/F6	E122/27	E319/E6	6
SV-8112B	Solenoid valve			RB-N	757'-6"	M	M181/F3	E122/27	E318/F6	6
SV-8113A	Solenoid valve			RB-S	757'-6"	M	M181/E6	E122/27	E319/E6	6
SV-8113B	Solenoid valve			RB-N	757'-6"	M	M181/E3	E122/27	E318/F6	6
SV-8118A	Solenoid valve			RB-S	757'-6"	M	M181/C7	E122/27	E319/E6	6
SV-8118B	Solenoid valve			RB-N	757'-6"	M	M181/C2	E122/27	E318/F6	6
SV-8126A	Solenoid valve			RB-S	757'-6"	M	M181/E6	E122/27	E319/E6	6
SV-8126B	Solenoid valve			RB-N	757'-6"	M	M181/E3	E122/27	E318/F6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-8128A	Solenoid valve			RB-S	757'-6"	M	M181/F7	E122/27	E319/E6	6
SV-8128B	Solenoid valve			RB-N	757'-6"	M	M181/F2	E122/27	E318/F6	6
SV-8133A	Solenoid valve			RB-S	757'-6"	M	M181/D7	E122/27	E319/E6	6
SV-8133B	Solenoid valve			RB-N	757'-6"	M	M181/D3	E122/27	E318/F6	6
SV-8130A	Solenoid valve			RB-S	757'-6"	M	M181/F8	E122/27	E319/E6	6
SV-8130B	Solenoid valve			RB-N	757'-6"	M	M181/F2	E122/27	E318/F6	6
1P-26A	Pump motors and motor starters			RB-S	757'-6"	M	M181/C6	E122/27	E319/E6	6
1P-26B	Pump motors and motor starters			RB-N	757'-6"	M	M181/C6	E122/27	E318/F6	6
1P-26C	Pump motors and motor starters			RB-S	757'-6"	M	M181/B6	E122/27	E319/E6	6
1P-26D	Pump motors and motor starters			RB-N	757'-6"	M	M181/B6	E122/27	E318/F6	6
1P-27A	Pump motors and motor starters			RB-S	757'-6"	M	M181/C3	E122/27	E319/E6	6
1P-27B	Pump motors and motor starters			RB-N	757'-6"	M	M181/C3	E122/27	E318/F6	6
1P-27C	Pump motors and motor starters			RB-S	757'-6"	M	M181/B3	E122/27	E319/E6	6
1P-27D	Pump motors and motor starters			RB-N	757'-6"	M	M181/B3	E122/27	E318/F6	6
1P-28A	Pump motors and motor starters			RB-S	757'-6"	M	M181/H6	E122/27	E319/E6	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
1P-28B	Pump motors and motor starters			RB-N	757'-6"	M	M181/H6	E122/27	E318/G6	6
1P-29A	Pump motors and motor starters			RB-S	757'-6"	M	M181/H3	E122/27	E319/E6	6
1P-29B	Pump motors and motor starters			RB-N	757'-6"	M	M181/H3	E122/27	E318/G6	6
AN-8181A	Oxygen analyzer			RB-S	757'-6"	M	M181/G7	E122/27	E319/E6	6
AN-8181B	Oxygen analyzer			RB-N	757'-6"	M	M181/G2	E122/27	E318/F6	6
AN-8182A	Hydrogen analyzer			RB-S	757'-6"	M	M181/D7	E122/27	E319/E6	6
AN-8182B	Hydrogen analyzer			RB-N	757'-6"	M	M181/D2	E122/27	E318/F6	6
SV-8111A	Solenoid valve			RB-S	757'-6"	M	M181/F6	E122/29	E319/F6	6
SV-8111B	Solenoid valve			RB-N	757'-6"	M	M181/F4	E122/29	E318/F6	6
SV-4129A	Solenoid valve			Off gas	740'	M	M141/F2	E122/27	E370/E3	6
SV-4129B	Solenoid valve			Offgas	740'	M	M141/F2	E122/27	E338/C4	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
	5 kV cable	Kerite	HT kerite with NS jacket							
	600 V control and power cable	Okonite	1/C#14, 4/C#14, 7/C#14							
	600 V instrument cable	Okonite	N/A							
	Special coaxial cable	Raychem	N/A							
	Splicing kits for 600 V control and power cable	Raychem	WCSF-N							
	Terminal blocks (1J1190)	Amerace-Buchanan	NQB108							5,3
	Terminal blocks (2J1641)	Amerace-Buchanan	NQB108							5,3
	Terminal blocks (3J1191)	Amerace-Buchanan	NQB108							5,3
	Terminal blocks (4J1642)	Amerace-Buchanan	NQB108							5,3
	Terminal blocks (3J706)	Amerace-Buchanan	NQB108							5,3
	Terminal blocks (1J705)	Amerace-Buchanan	NQB108							5,3
	Terminal blocks	GE	EB-5							6
	Electrical penetrations (JX101A)	GE	238X703RSG001							8
	Electrical penetrations (JX101B)	GE	238X703RSG001							8

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
	Electrical penetrations (JX103)	GE	238X705RSG001							8
	Electrical penetrations (JX104A)	GE	238X702RSG001							8
	Electrical penetrations (JX104B)	GE	238X702RSG001							8
	Electrical penetrations (JX104C)	GE	238X702RSG001							8
	Electrical penetrations (JX104D)	GE	238X702RSG001							8
	Electrical penetrations (JX105A)	GE	238X704RSG001							8
	Electrical penetrations (JX105B)	GE	238X704RSG001							8
	Electrical penetrations (JX105C)	GE	238X704RSG001							8
	Electrical penetrations (JX105D)	GE	238X704RSG001							8

Note: The above listed components are located inside and outside primary containment. However, none of the 5 kV cable in drywell performs safety-related functions.

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LIS-4531 (B21-N031A)	Level indicating switch	Yarway	4418C	RB-N	786'	M	M115/F6	E121/2	E320/D4	16
LIS-4532 (B21-N031B)	Level indicating switch	Yarway	4418C	RB-N	757'-6"	M	M115/F3	E121/2	E318/E6	16
LIS-4533 (B21-N031C)	Level indicating switch	Yarway	4418C	RB-N	786'	M	M115/F7	E121/2	E320/D4	16
LIS-4534 (B21-N031D)	Level indicating switch	Yarway	4418C	RB-N	757'-6"	M	M115/F3	E121/2	E318/E6	16
PS-4310B	Pressure switch	Static-O-Ring	12N-AA5	RB-S	757'-6"	M	M143/D6	E121/2	E319/E5	6
PS-4311B	Pressure switch	Static-O-Ring	12N-AA5	SW crnr rm	716'-9"	M	M143/D6	E121/2	E317/D7	6
PS-4312B	Pressure switch	Static-O-Ring	12N-AA5	RB-S	757'6"	M	M143/E6	E121/2	E319/E4	6
PS-4313B	Pressure switch	Static-O-Ring	12N-AA5	RB-N	757'-6"	M	M143/E6	E121/2	E318/F4	6
LIS-4535 (B21-N024A)	Level indicating switch	Yarway	4418C	RB-N	757'-6"	M	M115/F7	E122/9	E320/D4	16
LIS-4536 (B21-N025A)	Level indicating switch	Yarway	4418C	RB-N	786'	M	M115/F3	E122/9	E318/E6	16
LIS-4537 (B21-N024B)	Level indicating switch	Yarway	4418C	RB-N	786'	M	M115/F7	E122/9	E320/D4	16
LIS-4538 (B21-N025B)	Level indicating switch	Yarway	4418C	RB-N	757'-6"	M	M115/F3	E122/9	E318/E6	16
TIS-4443A	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4443B	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4443C	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4443D	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TIS-4444A	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4444B	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4444C	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4444D	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4445A	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4445B	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4445C	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4445D	Temperature indicating switch	Rosemount	3000A-1-4-	RB-S	757'-6"	M	M114/H1	E122/9	E319/F2	6
TIS-4446A	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4446B	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4446C	Temperature indicating switch	Rosemount	3000A-1-4-2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
TIS-4446D	Temperature indicating switch	Rosemount	3000A-1-4 2-20	RB-N	757'-6"	M	M114/H1	E122/9	E318/E2	6
PS-4545 (B21-N021A)	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/F7	E121/9	E320/D4	16
PS-4548 (B21-N021B)	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/F3	E121/10	E318/E6	16

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PS-4529	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/D7	E121/56	E319/E5	6
PS-4530	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/E3	E121/56	E318/F4	6
PS-4555 (B21-N039A)	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/E8	E121/56	E320/D4	16
PS-4556 (B21-N039B)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/E3	E121/56	E318/E6	16
PS-4557 (B21-N039C)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/E8	E121/56	E320/D4	16
PS-4558 (B21-N039D)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/E2	E121/56	E318/E6	16
PS-4593A (B21-N045A)	Pressure switch	Static-O-Ring	9N-AA45-(X9)-TT	RB-N	786'	M	M115/E8	E120/5	E320/D4	16
PS-4593B (B21-N045B)	Pressure switch	Barksdale	9N-AA45-(X9)-TT	RB-N	786'	M	M115/E8	E120/5	E320/D4	16
PS-4593C (B21-N045C)	Pressure switch	Static-O-Ring	9N-AA45-(X9)-TT	RB-N	757'-6"	M	M115/E2	E120/5	E318/E6	16
PS-4593D (B21-N045D)	Pressure switch	Static-O-Ring	9N-AA45-(X9)-TT	RB-N	757'-6"	M	M115/E2	E120/5	E318/E6	16
PS-4543	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/F6	E66	E320/D4	6
PS-4544 (B21-N020)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/F3	E66	E318/E6	6
PS-4546	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'	M	M115/F3	E66	E318/E6	6
PS-4547	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/F7	E66	E320/D4	6
PS-4549 (B21-N023A)	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/F7	E66	E320/D4	16
PS-4550 (B21-N025C)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/F2	E66	E318/E6	16
PS-4551 (B21-N023B)	Pressure switch	Barksdale	B2T-M12SS	RB-N	786'	M	M115/F7	E66	E320/D4	16
PS-4552 (B21-N023D)	Pressure switch	Barksdale	B2T-M12SS	RB-N	757'-6"	M	M115/F2	E66	E318/E6	16

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LITS-4565 (B21-N036)	Level indicating switch	Yarway	4418EC	RB-S	757'-6"	M	M115/E7	E121/56	E319/E5	16
LITS-4566 (B21-N037)	Level indicating switch	Yarway	4418EC	RB-N	757'-6"	M	M115/E3	E121/56	E318/F4	16
LIS-4561 (B21-N042A)	Level indicating switch	Yarway	4418C	RB-N	786'	M	M115/E6	E121/2	E320/D4	16
LIS-4562 (B21-N042B)	Level indicating switch	Yarway	4418C	RB-N	757'-6"	M	M115/E3	E121/2	E318/E6	16

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PS-4405A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4405B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4405C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4406A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4406B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4406C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4407A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4407B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
PS-4407C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/F4	
LI-4397A	Level indicator			CB ctl rm	786'	M	M143/B6	E122/20	E338/G4	
LI-4397B	Level indicator			CB ctl rm	786'	M	M143/B5	E122/20	E338/G4	
RR-9184A	Radiation recorder			CB ctl rm	786'	M	M148/C5	E63/	E338/G4	
RR-9184B	Radiation recorder			CB ctl rm	786'	M	M148/C4	E63/	E338/G4	
PI-4398A	Pressure indicator			CB ctl rm	786'	M	M143/F7	E124/3	E338/G4	
PI-4398B	Pressure indicator			CB ctl rm	786'	M	M143/D5	E124/3	E338/G4	
PI-4399A	Pressure indicator			CB ctl rm	786'	M	M143/D7	E124/3	E338/G4	
PI-4399B	Pressure indicator			CB ctl rm	786'	M	M143/D5	E124/3	E338/G4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PR-4398A	Pressure recorder			CB ctl rm	786'	M	M143/F7	E124/3	E338/G4	
PR-4398B	Pressure recorder			CB ctl rm	786'	M	M143/D5	E124/3	E338/G4	
LR-4396A	Level recorder			CB ctl rm	786'	M	M143/B6	E122/19A	E338/G4	
LR-4396B	Level recorder			CB ctl rm	786'	M	M143/B5	E122/19A	E338/G4	
E/S-4599A	Power supply			CB ctl rm	786'	M	M115/F8	E122/19A	E338/G4	
E/S-4599B	Power supply			CB ctl rm	786'	M	M115/F2	E122/19A	E338/G4	
PR-4599A	Pressure recorder			CB ctl rm	786'	M	M115/F8	E122/20	E338/G4	
PR-4599B	Pressure recorder			CB ctl rm	786'	M	M115/F2	E122/20	E338/G4	
LI-4396A	Level indicator			CB ctl rm	786'	M	M143B7	E122/19A	E338/G4	
LI-4396B	Level indicator			CB ctl rm	786'	M	M143/B5	E122/19A	E338/G4	
PI-4599A	Pressure indicator			CB ctl rm	786'	M	M115/F8	E122/20	E338/G4	
LY-4396A	Summer	Bailey Meter	752210-AAAE1	CB ctl rm	786'	M	M143/C7	E122/19A	E338/G4	
LY-4396B	Summer	Bailey Meter	752210-AAAE1	CB ctl rm	786'	M	M143/B4	E122/19A	E338/G4	
LT-4396A	Level transmitter	Gould	MA-128	RB-N	716'-9'	H	M143/B6	E122/19A	E316/F6	
LT-4396B	Level transmitter	Gould	MA-128	RB-N	716'-9"	H	M143/B4	E122/19A	E316/E3	
LT-4396C	Level transmitter	Gould	MA-128	RB-S	757'-6"	H	M143/E7	E122/19A	E319/E6	
LT-4396D	Level transmitter	Gould	MA-128	RB-S	786'	M	M143/D4	E122/19A	E320/C4	
LT-4397A	Level transmitter	Gould	MA-128	Torus rm-S	716'	H	M143/B5	E122/20	E316/F6	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LT-4397B	Level transmitter	Gould	MA-128	Torus rm-S	716'	H	M143/B5	E122/20	E316/E3	
PT-4599A	Pressure transmitter	ITT Barton	763	RB 1C56	786'	M	M115/F8	E122/20	E320/D3	
PT-4599B	Pressure transmitter	ITT Barton	763	RB 1C55	757'-6"	M	M115/F2	E122/20	M405-3/E7	
1C-218A	Panel	Comsip	K4	RB-S	757'-6"	M	M181/E7	E122/28	M405-2/C6	
1C-218B	Panel	Comsip	K4	RB-N	757'-6"	M	M181/E1	E122/28	M405-2/E6	
RE-9184A	Radiation element	Victoreen	877-1-1	Drywell	757'	H	M148/B5	E63/	E329/E5	
RE-9184B	Radiation element	Victoreen	877-1-1	Drywell	757'	H	M148/B4	E63/	E329/C4	
RIM-9184A	Radiation indicating monitor	Victoreen	876A	CB ctl rm	786'	M	M148/C5	E63/	E338/G4	
RIM-9184B	Radiation indicating monitor	Victoreen	876A	CB ctl rm	786'	M	M148/C4	E63/	E338/G4	
PT-4398A	Pressure transmitter	ITT Baraton	764	RB-N	757'-6"	M	M143/F7	E124/3	E319/E6	
PT-4398B	Pressure transmitter	ITT Barton	764	RB-S	757'-6"	M	M143/D5	E124/3	E320/C4	
PT-4399A	Pressure transmitter	ITT Barton	763	RB-N	757'-6"	M	M143/F7	E124/3	E319/E6	
PT-4399B	Pressure transmitter	ITT Barton	763	RB-S	757'-6"	M	M143/D6	E124/3	E320/C4	
PS-4400A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4400B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4400C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4401A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4401B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PS-4401C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4402A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4402B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4402C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4403A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4403B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4403C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4404A	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4404B	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
PS-4404C	Pressure switch	Pressure Controls	219B4562	Drywell	757'	H	M114/	E121/2B	M331/	
RE-9185A	Radiation Element	Victoreen	877-1-1	Torus rm-N	716'-9"	H	M148/C5	E63	E316/F6	
RE-9185B	Radiation Element	Victoreen	877-1-1	Torus rm-S	716'-9"	H	M148/C4	E63	E317/G2	
RR-9185A	Radiation Recorder			CB ctl rm	786'	M	M148/C4	E63	E338/G4	
RR-9185B	Radiation Recorder			CB ctl rm	786'	M	M148/C4	E63	E338/G4	
RIM-9185A	Radiation Indicating Monitor	Victoreen	876A	CB ctl rm	786'	M	M148/C5	E63	E338/G4	
RIM-9185B	Radiation Indicating Monitor	Victoreen	87A	CB ctl rm	786'	M	M148/C4	E63	E338/G4	
SV-8772A	Solenoid Valve	Target Rock	1031010-2	Torus rm-N	716'-9"	H	M187/E1	E112/19	E316/G4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
SV-8772B	Solenoid Valve	Target Rock	1030101-2	Torus rm-N	716'-9"	H	M187/E1	E112/19	E316/D8	
HS-8772A	Hand Switch	GE	CR2940-UB203F	CB ctl rm	786'	M	M187/E1	E112/19	E338/E4	
HS-8772B	Hand Switch	GE	CR2940-UB203F	Torus rm-N	786'	M	M187/E1	E112/19	E338/E4	
SV-8773A	Solenoid Valve	ASCO	NP8321 A5E	Torus rm-N	716'-9"	H	M187/C3	E113/64	E316/F6	
SV-8773B	Solenoid Valve	ASCO	NP8321 A5E	Torus rm-N	716'-9"	H	M187/C2	E113/64	E316/F6	
HS-8773A	Hand Switch	GE	CR2940-UB203A	CB ctl rm	786'	M	M187/C3	E113/64	E338/D4	
HS-8773B	Hand Switch	GE	CR2940-UB203A	CB ctl rm	786'	M	M187/C2	E113/64	E338/D4	
ZS-8773A	Position Switch	Namco	EA170-41302	Torus rm-N	716'-9"	H	M187/C3	E113/64	E316/F6	
ZS-8773B	Position Switch	Namco	EA170-41302	Torus rm-N	716'-9"	H	M187/C2	E113/64	E316/F6	
PI-4599B	Pressure indicator			CB ctl rm	786'	M	M115/F1	E122/20	E338/G4	
SV-4300X	Solenoid valve	ASCo	NP831667E	NE crnr rm	751'	H	M143/D7	E122/12	E316/E2	
SV-4302X	Solenoid valve	ASCo	NP831667P	RB-N	812'	M	M143/D7	E122/12	E322/D4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-4328L	Temperature element	Leeds & Northrup	8197-10-S	Drywell	816'	H	M143/E6	E122/20	E330/F4	
TE-4328M	Temperature element	Leeds & Northrup	8197-10-S	Drywell	816'	H	M143/D6	E122/20	E331/D4	
TI-4328	Temperature indicator	Leeds & Northrup	900	E SWGR rm	757'-6"	M	M/143/F6	E122/20	E335/D6	
TR-4400	Temperature recorder	GE	HG	CB ctl rm	786'	M	M114/D4	E121/2	E338/D5	
TE-4386E	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	186'	H	M143/D6	E122/20	E331/C3	
TE-4386F	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/D6	E122/20	E331/F6	
TE-4386G	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/D6	E122/20	E329/B4	
TE-4386H	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/D6	E122/20	E329/G4	
TE-4386J	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/E6	E122/20	E330/D2	
TE-4386K	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/E6	E122/20	E330/D6	
TE-4386L	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/E6	E122/20	E330/F5	
TE-4386M	Temperature element	Leeds & Northrup	8920-404-00-3-21	Drywell	816'	H	M143/D6	E122/20	E331/D4	
TT-4386E	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TT-4386F	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TT-4386G	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TT-4386H	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TT-4386I	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'6-"	M	M143/F5	E122/20	E335/D6	
TT-4386J	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TT-4386K	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TT-4386L	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TT-4386M	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/F5	E122/20	E335/D6	
TR-4386A	Temperature recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D2	E122/20	E338/E4	
TR-4386B	Temperature recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D1	E122/20	E338/E4	
TE-4328A	Temperature element	Leeds & Northrup	8197-10-S	Torus rm-N	724'	H	M143/C5	E122/18	E316/F5	
TE-4328B	Temperature element	Leeds & Northrup	8197-10-S	Torus rm-N	724'	H	M143/C5	E122/18	E316/B2	
TE-4328C	Temperature element	Leeds & Northrup	8197-10-S	Torus rm-S	724'	H	M143/C5	E122/18	E317/G5	
TE-4328D	Temperature element	Leeds & Northrup	8197-10-S	Torus rm-S	724'	H	M143/C5	E122/18	E317/H8	
TE-4386A	Temperature element	Leeds & Northrup	8920-404-00-3-21	Torus rm-N	724'	H	M143/C5	E122/18	E316/F5	
TE-4386B	Temperature element	Leeds & Northrup	8920-404-00-3-21	Torus rm-N	724'	H	M143/C5	E122/18	E316/B2	
TE-4386C	Temperature element	Leeds & Northrup	8920-404-00-3-21	Torus rm-S	724'	H	M143/C5	E122/18	E317/G5	
TE-4386D	Temperature element	Leeds & Northrup	8920-404-00-3-21	Torus rm-S	724'	H	M143/C5	E122/18	E317/H8	
FT-4408	Flow transmitter	Barton	368	RB-S	757'-6"	H	M114/E3	E109/9	E319/E4	
FY-4408	Flow relay	GE	564120AAAC1	CB ctl rm	786'	M	M114/D3	E109/9	E338/C5	
E/S-4408	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M114/D3	E109/9	E338/C5	
FI-4408	Flow indicator	GE	180	CB ctl rm	786'	M	M114/D2	E109/9	E338/D5	
FC-4408	Flow control	GE	563022CAAC1	CB ctl rm	786'	M	M114/D2	E109/9	E338/C5	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
FT-4409	Flow transmitter	Barton	368	RB-S	757'-6"	H	M114/C7	E109/9	E319/E4	
FY-4409	Flow relay	GE	564120AAAC1	CB ctl rm	786'	M	M114/B7	E109/9	E338/C5	
E/S-4409	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M114/B7	E109/9	E338/C5	
FI-4409	Flow indicator	GE	180	CB ctl rm	786'	M	M114/B8	E109/9	E338/D5	
FC-4409	Flow control	GE	563022CAAC1	CB ctl rm	786'	M	M114/B8	E109/9	E338/C5	
FT-4410	Flow transmitter	Barton	368	RB-N	757'-6"	H	M114/C3	E109/9	E318/C3	
FY-4410	Flow relay	GE	564120AAAC1	CB ctl rm	786'	M	M114/B3	E109/9	E338/C5	
E/S-4410	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M114/B3	E109/9	E338/C5	
FI-4410	Flow indicator	GE	180	CB ctl rm	786'	M	M114/B3	E109/9	E338/D5	
FC-4410	Flow control	GE	563022CAAC1	CB ctl rm	786'	M	M114/B3	E109/9	E338/C5	
FT-4411	Flow transmitter	Barton	368	RB-N	757'-6"	H	M114/E7	E109/9	E318/D3	
FY-4411	Flow relay	GE	564120AAAC1	CB ctl rm	786'	M	M114/D7	E109/9	E338/C5	
E/S-4411	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M114/D7	E109/9	E338/C5	
FI-4411	Flow indicator	GE	180	CB ctl rm	786'	M	M114/D7	E109/9	E338/D5	
FC-4411	Flow control	GE	563022CAAC1	CB ctl rm	786'	M	M114/D7	E109/9	E338/C5	
PR-4384A	Pressure recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D2	E122/21	E338/E4	
PR-4385A	Pressure recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D2	E122/21	E338/E4	
PT-2106	Pressure transmitter	GE	551032EK2Z2	RB-S	716'-9"	H	M121/E3	E121/9	E317/D3	
PI-2106	Pressure indicator	GE	180	CB ctl rm	786'	M	M121/E4	E121/9	E338/D5	
E/S-2106	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M121/E4	E121/9	E338/D5	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PT-2126	Pressure transmitter	GE	551032EKZZ2	RB-N	716'-9"	H	M121/E4	E121/10	E316/E7	
PI-2126	Pressure indicator	GE	180	CB ctl rm	786'	M	M121/E4	E121/10	E338/D5	
E/S-2126	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M121/E4	E121/10	E338/C5	
PDT-4623	Pressure differential transmitter			RB-N	716'-9"	H	M116/A3	E124/2	E316/E2	
E/S-4623	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M116/A3	E124/2	E338/C5	
PDI-4623	Pressure differential indicator	GE	180	CB ctl rm	786'	M	M116/A3	E124/2	E338/D5	
PDT-4624	Pressure differential transmitter			RB-S	716'-9"	H	M116/A7	E124/2	E317/D7	
E/S-4624	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M116/A7	E124/2	E338/C5	
PDI-4624	Pressure differential indicator	GE	180	CB ctl rm	786'	M	M116/A7	E124/2	E338/D5	
ZS-1906A	Position switch			Drywell	757'-4"	H	M119/F7	E121/58A	E329/C5	
ZS-1906B	Position switch			Drywell	757'-4"	H	M119/E7	E121/58A	E329/C5	
E/S-4365A	Power supply	GE	570-06	E SWGR rm	757'-6"	M	M143/F6	E122/21	E335/D6	
E/S-4365B	Power supply	GE	570-06	CB ctl rm	786'	M	M143/D5	E122/21	E338/D4	
PT-4365A	Pressure transmitter	GE	556	RB-S	757'-6"	H	M143/F6	E122/21	E319/E5	
PT-4365B	Pressure transmitter	GE	556	RB-N	786'	H	M143/D5	E122/21	E320/C4	
PT-4542	Pressure transmitter	Barton	368	RB-N	757'-6"	H	M115/F2	E109/9	E318/E6	
PR-4542	Pressure recorder	GE	531	CB ctl rm	786'	M	M115/G2	E109/9	E338/D5	
E/S-4365A	Power supply	GE	570-06	E SWGR rm	757'-6"	M	M143/F6	E122/21	E335/D6	
E/S-4365B	Power supply	GE	570-06	CB ctl rm	786'	M	M143/D5	E122/21	E338/E4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
PT-4365A	Pressure transmitter	GE	556	RB-S	757'-6"	H	M143/F6	E122/21	E319/E5	
PT-4365B	Pressure transmitter	GE	556	RB-N	786'	H	M143/D5	E122/21	E320/C4	
PT-4542	Pressure transmitter	Barton	368	RB-N	757'-6"	H	M115/F2	E109/9	E318/E6	
PR-4542	Pressure recorder	GE	531	CB ctl rm	786'	M	M115/G2	E109/9	E338/D5	
PI-4563	Pressure indicator	GE	180	CB ctl rm	786'	M	M115/E7	E109/10	E338/D5	
PT-4563	Pressure transmitter	GE	551082-GM772	RB-N	786'	H	M115/E7	E109/10	E320/D4	
E/S-4563	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/E7	E109/10	E338/C5	
PI-4564	Pressure indicator	GE	180	CB ctl rm	786'	M	M115/E2	E109/10	E338/D5	
PT-4564	Pressure transmitter	GE	551032-GM772	RB-N	757'	H	M115/E2	E109/10	E318/E6	
E/S-4564	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/E2	E109/10	E338/C5	
PI-4565	Pressure indicator	GE	180	CB ctl rm	786'	M	M115/E6	E109/10	E338/D5	
PT-4565	Pressure transmitter	GE	551032-GM772	RB-N	786'	H	M115/E6	E109/10	E320/D4	
E/S-4565	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/E6	E109/10	E338/C5	
LE-4531	Level element	Yarway		RV	NA	H	M115/F6	E121/2	NA/	
LE-4532	Level element	Yarway		RV	NA	H	M115/F4	E121/2	NA/	
LT-4559	Level transmitter	GE	555111BB AA3PDE	RB-N	786'	H	M115/E7	E109/10	E320/D4	
LT-4560	Level transmitter	GE	555111BB AA3PDE	RB-N	757'-6"	H	M115/E3	E109/10	E318/E6	
LT-4561	Level transmitter	GE	555111BB AA3PDE	RB-N	786'	H	M115/E7	E109/10	E320/D4	
E/S-4559	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/E7	E109/10	E338/C5	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
E/S-4560	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/E3	E109/10	E338/C5	
E/S-4561	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/E7	E109/10	E338/C5	
LI-4559	Level indicator	GE	180	CB ctl rm	786'	M	M115/E7	E109/10	E338/D5	
LI-4560	Level indicator	GE	180	CB ctl rm	786'	M	M115/E2	E109/10	E338/D5	
LI-4561	Level indicator	GE	180	CB ctl rm	786'	M	M115/E7	E109/10	E338/D5	
LC-4559	Level control	GE	563022CAAC1	CB ctl rm	786'	M	M115/E7	E109/10	E338/C5	
LC-4560	Level control	GE	563022CAAC1	CB ctl rm	786'	M	M115/E2	E109/10	E338/C5	
LC-4561	Level control	GE	563022CAAC1	CB ctl rm	786'	M	M115/E7	E109/10	E338/C5	
LI-4565	Level indicator	Yarway	4455	CB ctl rm	786'	M	M115/E7	E121/57	E338/D5	
LITS-4565	Level indicating transmitter switch	Yarway	4418CE	RB-N	757'-6"	H	M115/E7	E121/56	E319/A7	
LI-4541	Level indicator	GE	180	CB ctl rm	786'	M	M115/F6	E124/2	E338/D5	
LT-4541	Level transmitter	GE	555111BDAA-3PDF	RB-N	786'	H	M115/F6	E124/2	E320/D4	
LI-4539	Level indicator	Yarway	4455	CB ctl rm	786'	M	M115/F7	E109/10	E338/D5	
LI-4540	Level indicator	Yarway	4455	CB ctl rm	786'	M	M115/F2	E109/10	E338/D5	
LR-4566	Level recorder	GE	530	CB ctl rm	786'	M	M115/E3	E121/56	E338/D5	
RE-8102A	Radiation element	NMC	FS1MADC	RB-S	757'-6"	H	M181/G6	E122/28	E319/E6	
RE-8102B	Radiation element	NMC	FS1MADC	RB-S	757'-6"	H	M181/G3	E122/28	E319/E6	
RE-8103A	Radiation element	NMC	FS1MADC	RB-S	757'-6"	H	M181/G3	E122/28	E319/E6	
RE-8103B	Radiation element	NMC	FS1MADC	RB-S	757'-6"	H	M181/G3	E122/28	E319/E6	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LPRM-4571A	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571B	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571C	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571D	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571E	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571F	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571G	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571H	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571I	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571J	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571K	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571L	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571M	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571N	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571O	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571P	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571Q	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571R	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LPRM-4571S	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571T	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571U	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
LPRM-4571V	Radiation monitor	GE		CB ctl rm	786'	M	M115/D4	E62	E338/D5	
IRM-4572A	Radiation monitor	GE	194X672G8	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
IRM-4572B	Radiation monitor	GE	194X672G8	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
IRM-4572C	Radiation monitor	GE	194X672G8	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
IRM-4572D	Radiation monitor	GE	194X672G8	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
IRM-4572E	Radiation monitor	GE	194X672G8	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
IRM-4572F	Radiation monitor	GE	194X672G8	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
SRM-4573A	Radiation monitor	GE	194X400G17	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
SRM-4573B	Radiation monitor	GE	194X400G17	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
SRM-4573C	Radiation monitor	GE	194X400G17	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
SRM-4573D	Radiation monitor	GE	194X400G17	CB ctl rm	786'	M	M115/D4	E61	E338/D5	
ZS-2002A	Position switch			Drywell	757'-4"	H	M120/F3	E121/58	E329/F5	
ZS-2002B	Position switch			Drywell	757'-4"	H	M120/E3	E121/58	E329/F5	
RR-4379A	Radiation recorder	Honeywell	37303-6020-022-000-610-00	CB ctl rm	786'	M	M143/E2	E122/28	E338/E4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
RR-4379B	Radiation recorder	Honeywell	37303-6020-022-000-610-00	CB ctl rm	786'	M	M143/E1	E122/28	E338/D4	
RIT-8101A	Radiation indicating transmitter	NMC	FS1MADC	RB-S	757'-6"	H	M181/G6	E122/28	E319/E6	
RIT-8101B	Radiation indicating transmitter	NMC	FS1MADC	RB-N	757'-6"	H	M181/G3	E122/28	E318/G6	
RIT-8102A	Radiation indicating transmitter	NMC	FS1MADC	RB-S	757'-6"	H	M181/G6	E122/28	E319/E6	
RIT-8102B	Radiation indicating transmitter	NMC	FS1MADC	RB-N	757'-6"	H	M181/G3	E122/28	E318/G6	
RIT-8103A	Radiation indicating transmitter	NMC	FS1MADC	RB-S	757'-6"	H	M181/G6	E122/28	E319/E6	
RIT-8103B	Radiation indicating transmitter	NMC	FS1MADC	RB-N	757'-6"	H	M181/G3	E122/28	E318/G6	
AR-4381A	Analysis recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'M	M	M143/D2	E122/28	E338/D4	
AR-4381B	Analysis recorder	Honeywell	37300-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D1	E122/28	E338/E4	
AR-4382A	Analysis recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D1	E122/28	E338/E4	
AR-4382B	Analysis recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D1	E122/28	E338/E4	
TR-4383C	Temperature recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/E1	E122/20	E338/E4	
RE-4131A	Radiation element	GE	194X927G11	RB-N	833'-6"	M	M141/H2	E64/	E324/E3	
RE-4131B	Radiation element	GE	194X927G11	RB-N	833'-6"	M	M141/H2	E64/	E324/E3	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
RIS-4131A	Radiation indicating switch	GE	129B2802	CB ctl rm	786'	M	M141/H2	E64/	E338/C4	
RIS-4131B	Radiation indicating switch	GE	129B2802	CB ctl rm	786'	M	M141/H2	E64/	E338/C4	
RE-7606A	Radiation element	NMC	GA-2	RB-N	757'-6"	H	M176/A3	E113/11	E318/G2	
RE-7606B	Radiation element	NMC	GA-2	RB-N	757'-6"	H	M176/A3	E113/11	E318/G2	
RIM-7606A	Radiation indicating monitor	NMC	GA-2TO	RB-N	757'-6"	H	M176/A3	E113/11	E318/G2	
RIM-7606B	Radiation indicating monitor	NMC	GA-2TO	RB-N	757'-6"	H	M176/A3	E113/11	E318/G3	
FIC-5828A	Flow indicating control	GE	540	CB ctl rm	786'	M	M158/E5	E113/112	E338/D4	
FIC-5828B	Flow indicating control	GE	540	CB ctl rm	786'	M	M158/E5	E113/112	E338/D4	
RR-4131	Radiation recorder	GE	521	CB ctl rm	786'	M	M141/H2	E64/	E338/C4	
RR-7606A	Radiation recorder	Honeywell	37303-3	RB-N	757'-6"	H	M176/A3	E113/11	E318/G2	
RR-7606B	Radiation recorder	Honeywell	37303-3	RB-N	757'-6"	H	M176/A3	E113/11	E318/G3	
FS-5826A	Flow switch	GE	560	CB ctl rm	786'	M	M158/E6	E113/112	E338/D4	
FS-5826B	Flow switch	GE	560	CB ctl rm	786'	M	M158/E6	E113/112	E338/D4	
RR-7613	Radiation recorder	Esterline-Angus	E1124E	RB-N	855'	M	M176/F5	E113/43	E326/G4	
RR-7614	Radiation recorder	Esterline-Angus	E1124E	RB-N	855'	M	M176/F6	E113/43	E326/G4	
RR-7615	Radiation recorder	Esterline-Angus	E1124E	RB-N	855'	M	M176/F7	E113/43	E326/F4	
PT-2306	Pressure transmitter	GE	50551032 GKZZ2	RB-S	716'-9"	H	M124/D4	E121/25	E317/B4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
E/S-2306	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M123/D4	E121/25	E338/C5	
PI-2306	Pressure indicator	GE	180	CB ctl rm	786'	M	M123/De	E121/25	E338/D5	
RE-4448A	Radiation element			Stm tunnel	757'-6"	H	M114/E2	E64/	E328/E4	
RE-4448B	Radiation element			Stm tunnel	757'-6"	H	M114/D8	E64/	E328/E4	
RE-4448C	Radiation element			Stm tunnel	757'-6"	H	M114/D8	E64/	E328/E4	
RE-4448D	Radiation element			Stm tunnel	757'-6"	H	M114/E8	E64/	E328/E4	
RR-4448A	Radiation recorder	GE	521	CB ctl rm	786'	M	M114/E1	E64/	E338/C4	
RR-4448B	Radiation recorder	GE	521	CB ctl rm	786'	M	M114/E2	E64/	E338/C4	
TE-4451A	Temperature element			RB-S	786'	H	M114/G2	E124/6	M658/G2	
TE-4451B	Temperature element			RB-N	786'	H	M114/G2	E124/6	M644/D3	
TE-4447	Temperature element	NECI		RB-N	757'-6"	H	M114/G3	E124/7	E328/E3	
PT-1018	Pressure transmitter	Schaevitz	501X5A	TB-N	757'-6"	H	M103/G6	E43/	E308/C6	
PT-1019	Pressure transmitter	Schaevitz	501X5A	TB-N	757'-6"	H	M103/G6	E43/	E308/C6	
PT-4343	Pressure transmitter	GE	556	SGT room	786'	M	M143/G3	E122/21	E315/B8	
E/S-4343	Power supply	GE	570-06	E SWGR rm	757'-6"	M	M143/G3	E122/21	E335/D6	
PT-2403	Pressure transmitter	GE	50-551	RB-S	716'-9"	H	M124/G3	E121/38	E317/B5	
E/S-2403	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M124/G3	E121/38	E338/D5	
TE-2265	Temperature element			RB-S	757'-6"	H	M122/A2	E124/7	M660/C3	
PT-2207	Pressure transmitter	GE	50551032-GKzz2	RB-S	716'-9"	H	M122/F2	E121/25	E317/B4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
E/S-2207	Power supply	GE	570	CB ctl rm building, control room	786'	M	M122/F2	E121/25	E338/C5	
E/S-2747	Power supply	GE	570	CB ctl rm	786'	M	M127/F5	E120/14	E338/D5	
TE-4400	Temperature element	NECI		Drywell	773'-9"	H	M114/E4	E121/2	E330/C4	
TE-4401	Temperature element	NECI		Drywell	773'-9"	H	M114/E4	E121/2	E330/C3	
TE-4402	Temperature element	NECI		Drywell	773'-9"	H	M114/E6	E121/2	E330/C4	
TE-4403	Temperature element	NECI		Drywell	773'-9"	H	M114/E6	E121/2	E330/C4	
TE-4404	Temperature element	NECI		Drywell	773'-9"	H	M114/D5	E121/2	E330/F4	
TE-4405	Temperature element	NECI		Drywell	773'-9"	H	M114/D4	E121/2	E330/F4	
TE-4406	Temperature element	NECI		Drywell	773'-9"	H	M114/E6	E121/2	E330/F3	
TE-4407	Temperature element	NECI		Drywell	773'-9"	H	M114/E6	E121/2	E330/E3	
RE-7613	Radiation element			RB-N	812'	M	M176/F6	E113/118	M642/B5	
RE-7614	Radiation element			RB-N	812'	M	M176/F6	E113/118	M642/B5	
RE-7615	Radiation element			RB-N	812'	M	M176/F7	E113/118	M642/B6	
RIM-7613	Radiation indicating monitor			RB-N	855'	M	M176/F5	E113/118	E326/G4	
RIM-7614	Radiation indicating monitor			RB-N	855'	M	M176/F6	E113/118	E326/G4	
RIM-7615	Radiation indicating monitor			RB-N	855'	M	M176/F7	E113/118	E326/F4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
TE-2453	Temperature element	Nooter Corp.	145C322AP-001	RB-S	734'	H	M124/C7	E124/7	M661/B5	
RE-8101A	Radiation element	NMC	FS1MADC	RB-S	757'-6"	H	M181/G6	E122/28	E319/E6	
RE-8101B	Radiation element	NMC	FS1MADC	RB-S	757'-6"	H	M181/G3	E122/28	E319/E6	
ZS-2211	Position switch			RB-S	716'-9"	H	M122/D2	E121/26	E317/C3	
ZS-2212	Position switch			RB-S	716'-9"	H	M122/D2	E121/26	E317/C3	
ZS-2234	Position switch			RB-S	716'-9"	H	M122/C5	E121/26	E317/A3	
ZS-2235	Position switch			RB-S	716'-9"	H	M122/C6	E121/26	E317/A3	
LE-3701	Level electrode			Drywell	742'-9"	H	M137/F8	E125/2	E331/D4	
LS-3701	Level switch	Gems Division Delaval	31924	RB-N	757'-6"	H	M137/F8	E125/2	E318/E5	
LSS-3701	Level selector switch	GE	CR120A28802	Rad bldg	786'	M	M137/F8	E125/2	E359/G5	
KS-3706A	Time switch	Bliss	HP52A6	CB ctl rm	786'	M	M137/F7	E125/2	E338/C4	
KS-3706B	Time switch	Bliss	HP52A6	CB ctl rm	786'	M	M137/F7	E125/2	E338/C4	
LE-3721	Level electrode			Drywell	742'-9"	H	M137/B7	E125/2	E331/E5	
LS-3721	Level switch	Gems Division Delaval	31924	RB-N	757'-6"	H	M137/B7	E125/2	E318*/E5	
LSS-3721	Level selector switch	GE	CR120A28802	Rad bldg	786'	M	M137/B7	E125/2	E359/G5	
KS-3747A	Time switch	Bliss	HP53A6	CB ctl rm	786'	M	M137/B8	E125/2	E338/C4	
FT-3708	Flow transmitter	GE	555111BCAA-3ABA	RB-N	716'-9"	H	M137/E6	E125/5	E316/D7	
E/S-3708	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M137/E6	E125/5	E338/D5	
FY-3708	Flow relay	GE	565100AAAC1	CB ctl rm	786'	M	M137/E6	E125/5	E338/D5	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
FQ-3708	Flow integrator	GE	561290AAA-C1PYE	CB ctl rm	786'	M	M137/E6	E125/5	E338/D5	
FT-3707	Flow transmitter	GE	555111BCAA-3ABA	RB-S	716'-9"	H	M137/H6	E125/5	E317/F3	
E/S-3707	Power supply	GE	570062-FAAC1	CB ctl rm	786'	M	M137/H6	E125/5	E338/D5	
FY-3707	Flow relay	GE	565100AAAC1	CB ctl rm	786'	M	M137/H6	E125/5	E338/D5	
FQ-3707	Flow integrator	GE	561290AAA-CIPYE	CB ctl rm	786'	M	M137/H6	E125/5	E338/D5	
FR-3707	Flow recorder	GE	531	CB ctl rm	786'	M	M137/H6	E125/5	E338/D5	
TIS-3724	Temperature indicating switch	GE	195	CB ctl rm	786'	M	M137/B4	E125/5	E338/D5	
TE-3724	Temperature element			Drywell	742'-9"	H	M137/B4	E125/5	E331/E5	
E/I-3724	Voltage converter	GE	550211EAA-C1PPN	CB ctl rm	786'	M	M137/B4	E125/5	E338/D5	
TR-4383A	Temperature recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D2	E122/20	E338/E4	
TR-4383B	Temperature recorder	Honeywell	37303-6020-0222-000-610-00	CB ctl rm	786'	M	M143/D1	E122/20	E338/E4	
TE-4328E	Temperature element	Leeds & Northrup	8197-10-S	Drywell	742'-9"	H	M143/D6	E122/20	E331/C3y	
TE-4328F	Temperature element	Leeds & Northrup	8197-10-S	Drywell	742'-9"	H	M143/D6	E122/20	E331/F6	
TE-4328G	Temperature element	Leeds & Northrup	8197-10-S	Drywell	757'-4"	H	M143/D6	E122/20	E329/B4	
TE-4328H	Temperature element	Leeds & Northrup	8197-10-S	Drywell	757'-4"	H	M143/D6	E122/20	E329/G4	
TE-4328J	Temperature element	Leeds & Northrup	8197-10-S	Drywell	757'-9"	H	M143/E6	E122/20	E330/E2	
TE-4328K	Temperature element	Leeds & Northrup	8197-10-S	Drywell	773'-9"	H	M143/E6	E122/20	E330/E6	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
LITS-4539	Level indicating transmitter switch	Yarway	4418CE	RB-N	786'	H	M115/F7	E843/	E320/D4	
LITS-4540	Level indicating transmitter switch	Yarway	4418CE	RB-N	757'-6"	H	M115/F3	E842/	E318/E6	
E/S-4541	Power supply	GE	570062FAAC1	CB ctl rm	786'	M	M115/G6	E124/2	E338/D5	
LITS-4566	Level indicating transmitter switch	Yarway	4418CE	RB-N	757'-6"	H	M115/E3	E121/56	E318/F4	
LI-4539	Level indicator	Yarway	4455	CB ctl rm	786'	M	M115/F7	E109/10	E338/D5	
LI-4540	Level indicator	Yarway	4455	CB ctl rm	786'	M	M115/F2	E109/10	E338/D5	
LR-4559	Level recorder	GE	531	CB ctl rm	786'	M	M115/E1	E109/10	E338/D5	
LR-4560	Level recorder	GE	531	CB ctl rm	786'	M	M115/E1	E109/10	E338/D5	
PI-1018	Pressure indicator	GE	180	CB ctl rm	786'	M	M130/G6	E43/	E338/E4	
PI-1019	Pressure indicator	GE	180	CB ctl rm	786'	M	M103/G7	E43/	E338/E4	
TS-2453	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M124/C7	E124/7	E338/D5	
TS-2265	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M122/A2	E124/7	E338/C4	
PI-2403	Pressure indicator	GE	180	CB ctl rm	786'	M	M124/G3	E121/30	E338/D5	
PI-2207	Pressure indicator	GE	180	CB ctl rm	786'	M	M122/F2	E121/26	E338/D5	
RC-4448A	Radiation control	GE	238X660G3	CB ctl rm	786'	M	M114/E1	E64/	E338/D5	
RC-4448B	Radiation control	GE	238X660G3	CB ctl rm	786'	M	M114/D8	E64/	E338/D5	
RC-4448C	Radiation control	GE	238X660G3	CB ctl rm	786'	M	M114/C1	E64/	E338/D5	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
RC-4448D	Radiation control	GE	238X660G3	CB ctl rm	786'	M	M114/E8	E64/	E338/D5	
TDS-4451	Temperature differential switch	RI	86UTFF	CB ctl rm	786'	M	M114/G1	E124/6	E338/C4	
TS-4447	Temperature switch	Transmation	610A	CB ctl rm	786'	M	M114/G2	E124/7	E338/C4	
FT-2509	Flow transmitter	GE	555	RCIC room	716'-9"	H	M125/D4	E121/38	E317/C5	
FY-2509	Relay	GE	565	CB ctl rm	786'	M	M125/D4	E121/38	E338/D5	
FIC-2509	Flow indicating control	GE	540	CB ctl rm	786'	M	M125/D4	E121/38	E338/D5	
E/S-2509	Power supply	GE	570	CB ctl rm	786'	M	M125/C2	E121/38	E338/D5	
FI-2749	Flow indicator	GE	180	CB ctl rm	786'	M	M127/G6	E120/14	E338/D5	
ZS-7633B	Position switch	Micro switch	BZE6-ERN	RB-S	812'	M	M176/G5	E113/64	E323/G3	
ZS-7630A	Position switch	Micro switch	BZE-6-2RN-7331	RB-S	757'-6"	M	M176/H7	E113/64	E319/G8	
ZS-7630B	Position switch	Micro switch	BZE6-2RN-7331	RB-S	757'-6"	M	M176/G7	E113/64	E319/G8	
ZS-7636A	Position switch	Micro switch	BZE6-2RN-7331	RB-S	757'-6"	H	M176/C6	E113/64	E319/D8	
ZS-7636B	Position switch	Micro switch	BZE6-2RN-7331	RB-S	757'-6"	H	M176/D6	E113/64	E319/D8	
ZS-7634A	Position switch	Micro switch	BZE6-2RN-7331	RB-S	757'-6"	H	M176/H4	E113/64	E319/D8	
ZS-7634B	Position switch	Micro switch	BZE6-2RN-7331	RB-S	757'-6"	H	M176/G4	E113/64	E319/D8	
RE-4571A	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571B	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571C	Radiation element			RV	800'	H	M115/E5	E62	E369/	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
RE-4571D	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571E	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571F	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571G	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571H	Radiation element			RV	800'	H	M115/E5	E62	E369/1	
RE-4571I	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571J	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571K	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571L	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571M	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571N	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-45710	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571P	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571Q	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571R	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571S	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571T	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4571U	Radiation element			RV	800'	H	M115/E5	E62	E369/	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
RE-4571V	Radiation element			RV	800'	H	M115/E5	E62	E369/	
RE-4573A	Radiation element			RV	800'	H	M115/D5	E61	E369/	
RE-4573B	Radiation element			RV	800'	H	M115/D5	E61	E369/	
RE-4573C	Radiation element			RV	800'	H	M115/D5	E61	E369/	
RE-4573D	Radiation element			RV	800'	H	M115/D5	E61	E369/	
RE-4572A	Radiation element			RV	800'	H	M115/E5	E61	E369/	
RE-4572B	Radiation element			RV	800'	M	M115/E5	E62	E369/	
RE-4572C	Radiation element			RV	800'	H	M115/E5	E61	E369/	
RE-4572D	Radiation element			RV	800'	H	M115/E5	E61	E369/	
RE-4572E	Radiation element			RV	800'	H	M115/E5	E61	E369/	
RE-4572F	Radiation element			RV	800'	H	M115/E5	E61	E369/	
ZS-5825A	Position switch	Micro switch	OPD-AR-7209	SGT room	786'	H	M158/F6	E113/11	E315/G5	
ZS-5825B	Position switch	Micro switch	OPD-AR-7209	SGT room	786'	H	M158/D6	E113/11	E315/F5	
ZS-5817A	Position switch	Micro switch	OPD-AR-7209	RB-N	786'	H	M158/E2	E113/11	E320/G3	
ZS-5817B	Position switch	Micro switch	OPD-AR-7209	RB-N	786'	H	M158/D2	E113/11	E320/G3	
ZS-7641A	Position switch	Micro switch	EXD-AR	RB	786'	M	M176/H8	E113/64	E359/G8	
ZS-7641B	Position switch	Micro switch	EXD-AR	RB	786'	M	M176/G8	E113/64	E359/F8	
ZS-7612A	Position switch			RB-N	812'	M	M176/F3	E113/64	E322/F2	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
ZS-7612B	Position switch			RB-N	812'	M	M176/F3	E113/64	E322/F2	
ZS-7602A	Position switch	Micro switch	OPD-AR	SGT room	786'	H	M176/A4	E113/64	E315/G3	
ZS-7602B	Position switch	Micro switch	OPD-AR	SGT room	786'	H	M176/A4	E113/64	E315/G3	
ZS-7622	Position switch			RB-N	833'-6"	M	M176/B7	E113/110	E324/E3	
ZS-7621	Position switch			RB-N	833'-6"	M	M176/B8	E113/110	E324/D4	
ZS-7620	Position switch			RB-N	833'-6"	M	M176/B8	E113/110	E324/D3	
ZS-7610A	Position switch			RB-N	812'	M	M176/E3	E113/64	E322/F2	
ZS-7610B	Position switch			RB-N	812'	M	M176/E3	E113/64	E322/F2	
ZS-7604U	Position switch	Micro switch	OPD-AR	RB-N	786'	H	M176/B4	E113/54	E320/G3	
ZS-7604V	Position switch	Micro switch	OPD-AR	RB-N	786'	H	M176/B3	E113/57	E320/G3	
ZS-7631A	Position switch	Micro switch	BZE6-ERN	RB-S	812'	M	M176/H6	E113/64	E323/E3	
ZS-7631B	Position switch	Micro switch	BZE6-ERN	RB-S	812'	M	M176/G7	E113/64	E323/E3	
ZS-7632A	Position switch	Micro switch	BZE6-ERN	RB-S	812'	M	M176/H4	E113/64	E323/F3	
ZS-7632B	Position switch	Micro switch	BZE6-ERN	RB-S	812'	M	M176/G4	E113/64	E323/F3	
ZS-7633A	Position switch	Micro switch	BZE6-ERN	RB-S	812'	M	M176/H4	E113/64	E323/G3	
ZS-2051	Position switch			RB-S	716'-9"	H	M120/D7	E122/13	E317/D3	
ZS-2052	Position switch			RB-S	716'-9"	H	M120/D8	E122/13	E317/D3	
ZS-1972	Position switch			RB-N	716'-9"	H	M119/D3	E122/13	E316/E8	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
ZS-1973	Position switch			RB-N	716'-9"	H	M119/D2	E122/13	E316/E8	
ZS-4639	Position switch			Drywell	773'-9"	H	M116/F6	E122/10	E330/B5	
ZS-4640	Position switch			RB-S	786'	H	M116/F7	E122/10	E321/E5	
ZS-3704	Position switch			RB-S	716'-9"	H	M137/H7	E122/9	E317/F4	
ZS-3705	Position switch			RB-S	716'-9"	H	M137/H7	E122/9	E317/F4	
ZS-3728	Position switch			RB-N	716'-9"	H	M137/D7	E122/9	E316/D6	
ZS-3729	Position switch			RB-N	716'-9"	H	M137/D7	E122/9	E316/D6	
ZS-4300	Position switch	Micro switch	OPD-AR-7209	RB-N	716'-9"	H	M143/C7	E122/12	E316/E2	
ZS-4301	Position switch	Micro switch	OPD-AR-7109	RB-N	716'-9"	H	M143/C8	E122/13	E316/E2	
ZS-4302	Position switch	Micro switch	OPD-AR-7114	RB-N	812'	H	M143/D7	E122/12	E322/D3	
ZS-4303	Position switch			RB-N	812'	H	M143/D7	E122/13	E322/D3	
ZS-4304	Position switch	Micro switch	OPD-AR-7209	RB-N	716'-9"	H	M143/D7	E122/23	E316/E3	
ZS-4305	Position switch	Micro switch	OPD-AR	RB-N	716'-9"	H	M143/B7	E122/23	E316/E2	
ZS-4306	Position switch			RB-N	757'-6"	H	M143/B7	E122/13	E318/E6	
ZS-4307	Position switch			RB-N	757'-6"	H	M143/E3	E122/12	E318/E6	
ZS-4308	Position switch			RB-N	757'-6"	H	M143/E3	E122/12	E318/C6	
ZS-4309	Position switch	Namco	SA132	RB-N	716'-9"	H	M143/C7	E122/12	E316/E2	
ZS-4310	Position switch			RB-N	812'	H	M1431/D7	E122/12	E322/D4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
ZS-4311	Position switch			RB-S	757'-6"	H	M143/F3	E122/13	E319/G7	
ZS-4312	Position switch			RB-N	757'-6"	H	M143/F3	E122/12	E318/D7	
ZS-4313	Position switch			RB-S	757'-6"	H	M143/F3	E122/12	E319/G7	
ZS-5703A	Position switch			RB-S	716'-9"	H	M157/H7	E113/94	E317/E5	
ZS-5703B	Position switch			RB-S	716'-9"	H	M157/G7	E113/94	E317/H7	
ZS-5704A	Position switch			RB-S	716'-9"	H	M157/G6	E113/94	E317/E5	
ZS-5704B	Position switch			RB-S	716'-9"	H	M157/G6	E113/94	E317/G7	
ZS-5718A	Position switch			RB-S	716'-9"	H	M157/C8	E113/94	E317/E5	
ZS-5718B	Position switch			RB-N	716'-9"	H	M157/A8	E113/94	E316/C7	
ZS-5719A	Position switch			RB-S	716'-9"	H	M157/B7	E113/94	E317/E5	
ZS-5719B	Position switch			RB-N	716'-9"	H	M157/A7	E113/94	E316/C7	
ZS-2410	Position switch			RB-S	716'-9"	H	M124/D3	E121/39	E317/C5	
ZS-2411	Position switch			RB-S	716'-9"	H	M124/C3	E121/39	E317/C5	
ZS-2435	Position switch			RCIC room	716'-9"	H	M124/B5	E121/39	M405-1/B6	
ZS-2436	Position switch			RCIC room	716'-9"	H	M124/B5	E121/39	M405-1/B6	
KS-3747B	Time switch	Bliss	HP53A6	CB ctl rm	786'	M	M137/B8	E125/2	E338/C4	
APRM A1C37	Average power range monitors	GE		CB ctl rm	786'	M	NS	E62	E338/D4	

Plant ID	Generic Name	Manufacturer	Model	Location	Elev	Environment	P&ID/Loc	Electrical Scheme Dwg/Sh	Layout/Loc	Remarks
APRM B1C37	Average power range monitors	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
APRM C1C37	Average power range monitors	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
APRM D1C37	Average power range monitors	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
APRM E1C37	Average power range monitors	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
APRM F1C37	Average power range monitors	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
1C77A	Preamplifiers	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
1C77B	Preamplifiers	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
1C77C	Preamplifiers	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
1C77D	Preamplifiers	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
1C77E	Preamplifiers	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
1C77F	Preamplifiers	GE		CB ctl rm	786'	M	NS	E62	E338/D4	
TT-4386A	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/C5	E122/18	E335/D6	
TT-4386B	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/C5	E122/18	E335/D6	
TT-4386C	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/C5	E122/18	E335/D6	
TT-4386D	Temperature transmitter	Honeywell	39521-4010-912-00-00	E SWGR rm	757'-6"	M	M143/C5	E122/18	E335/D6	
W-DG1	Wattmeter	GE	50	CB ctl rm	786'	M	N/A	E5	E338/F4	
W-DG1	Wattmeter	GE	50	CB ctl rm	786'	M	N/A	E5	E338/F4	