ArevaEPRDCPEm Resource

From: DUNCAN Leslie E (AREVA NP INC) [Leslie.Duncan@areva.com]
Sent: Thursday, February 11, 2010 2:46 PM
To: Tesfaye, Getachew
Cc: DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); KOWALSKI David J (AREVA NP INC); ROMINE Judy (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 110, FSAR Ch 16, Supplement 4
Attachments: RAI 110 Supplement 4 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 21 of the 33 questions of RAI No. 110 on December 1, 2008. AREVA NP submitted Supplement 1 to the response on March 19, 2009 to address 9 of the remaining 12 questions. AREVA NP submitted Supplement 2 to the response on March 31, 2009 to provide an omitted page for the U.S. EPR FSAR that was not supplied in the March 19, 2009 response. AREVA NP submitted Supplement 3 to the response on June 30, 2009 to provide technically correct and complete responses to the remaining 3 questions. The attached file, "RAI 110 Supplement 4 Response US EPR DC.pdf" provides a technically correct and complete response to Question 16-212 and supersedes the original response in its entirety.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which supports the response to RAI 110 Question 16-212.

The following table indicates the respective pages in the response document, "RAI 110 Supplement 4 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 110 — 16-212	2	3

This concludes the formal AREVA NP response to RAI 110, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

Les Duncan
Licensing Engineer
AREVA NP Inc.
An AREVA and Siemens Company
Tel: (434) 832-2849
Leslie.Duncan@areva.com

From: WELLS Russell D (AREVA NP INC)
Sent: Tuesday, June 30, 2009 7:40 PM
To: 'Getachew Tesfaye'; 'Miernicki, Michael'
Cc: Pederson Ronda M (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 110, FSAR Ch 16, Supplement 3

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 21 of the 33 questions of RAI No. 110 on December 1, 2008. On March 31, 2009 AREVA NP provided technically correct and complete responses to 9 of the remaining 12 questions. The attached file, "RAI 110 Supplement 3 Response US EPR DC.pdf" provides technically correct and complete responses to the remaining three questions, as committed.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 103 Question 16-215.

The following table indicates the respective pages in the response document, "RAI 110 Supplement 3 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 110 — 16-215	2	2
RAI 110 — 16-217	3	3
RAI 110 — 16-226	4	4

This concludes the formal AREVA NP response to RAI 110, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

(Russ Wells on behalf of)
Ronda Pederson
ronda.pederson@areva.com
Licensing Manager, U.S. EPR Design Certification
New Plants Deployment
AREVA NP, Inc.
An AREVA and Siemens company
3315 Old Forest Road
Lynchburg, VA 24506-0935
Phone: 434-832-3694
Cell: 434-841-8788

From: WELLS Russell D (AREVA NP INC)
Sent: Tuesday, March 31, 2009 7:07 PM
To: 'Getachew Tesfaye'
Cc: Pederson Ronda M (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 110, FSAR Ch 16, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 21 of the 33 questions of RAI No. 110 on December 1, 2008. AREVA NP provided responses to 9 of the 12 remaining questions on March 19, 2009. However, a page for the U.S. EPR Final Safety Analysis Report was inadvertently omitted (i.e., page B 3.3.2-1). Accordingly, the attached file, "RAI 110 Supplement 2 Response US EPR DC.pdf" provides the corrected response in its entirety.

This response supersedes the response to Question 16-212 that was provided in RAI 110, Supplement 1.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the amended response to RAI 110 Questions 16-212.

The following table indicates the respective pages in the response document, "RAI 110 Supplement 2 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 110 — 16-212	2	2

The schedule for technically correct and complete responses to the remaining questions is unchanged and provided below:

Question #	Response Date
RAI 110 — 16-215	June 30, 2009
RAI 110 — 16-217	June 30, 2009
RAI 110 — 16-226	June 30, 2009

Sincerely,

(Russ Wells on behalf of)

Ronda Pederson
ronda.pederson@areva.com
Licensing Manager, U.S. EPR Design Certification
New Plants Deployment
AREVA NP, Inc.
An AREVA and Siemens company
3315 Old Forest Road
Lynchburg, VA 24506-0935
Phone: 434-832-3694
Cell: 434-841-8788

From: WELLS Russell D (AREVA NP INC)
Sent: Thursday, March 19, 2009 5:14 PM
To: 'Getachew Tesfaye'
Cc: Pederson Ronda M (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 110, FSAR Ch 16, Supplement 1

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 21 of the 33 questions of RAI No. 110 on December 1, 2008. The attached file, "RAI 110 Supplement 1 Response US EPR DC.pdf" provides technically correct and complete responses to 9 of the remaining 12 questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 110 Questions 16-212, 16-222, 16-227, 16-228, 16-237, and 16-241.

The following table indicates the respective pages in the response document, "RAI 110 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 110 — 16-212	2	2
RAI 110 — 16-213	3	3
RAI 110 — 16-222	4	4
RAI 110 — 16-223	5	5
RAI 110 — 16-227	6	7
RAI 110 — 16-228	8	8
RAI 110 — 16-236	9	9
RAI 110 — 16-237	10	11

RAI 110 — 16-241	12	12

The schedule for response to RAI 110 – 16-215 has been changed from March 19, 2009 to June 30, 2009. The schedule for technically correct and complete responses to the remaining questions is provided below:

Question #	Response Date
RAI 110 — 16-215	June 30, 2009
RAI 110 — 16-217	June 30, 2009
RAI 110 — 16-226	June 30, 2009

Sincerely,

(Russ Wells on behalf of)

Ronda Pederson
ronda.pederson@areva.com
Licensing Manager, U.S. EPR Design Certification
New Plants Deployment
AREVA NP, Inc.
An AREVA and Siemens company
3315 Old Forest Road
Lynchburg, VA 24506-0935
Phone: 434-832-3694
Cell: 434-841-8788

From: Pederson Ronda M (AREVA NP INC)
Sent: Monday, December 01, 2008 3:39 PM
To: 'Getachew Tesfaye'
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); PORTER Thomas (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 110 (1295, 1331),FSAR Ch. 16

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 110 Response US EPR DC.pdf," provides technically correct and complete responses to 21 of the 33 questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 110 Questions 16-214, 16-219, 16-220, 16-221, 16-224, 16-225, 16-231, 16-232, 16-234, and 16-242.

The following table indicates the respective pages in the response document, "RAI 110 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 110 — 16-210	2	2
RAI 110 — 16-211	3	4
RAI 110 — 16-212	5	5
RAI 110 — 16-213	6	6
RAI 110 — 16-214	7	7
RAI 110 — 16-215	8	8
RAI 110 — 16-216	9	9
RAI 110 — 16-217	10	10
RAI 110 — 16-218	11	11

RAI 110 — 16-219	12	12
RAI 110 — 16-220	13	13
RAI 110 — 16-221	14	14
RAI 110 — 16-222	15	15
RAI 110 — 16-223	16	16
RAI 110 — 16-224	17	17
RAI 110 — 16-225	18	18
RAI 110 — 16-226	19	19
RAI 110 — 16-227	20	20
RAI 110 — 16-228	21	21
RAI 110 — 16-229	22	22
RAI 110 — 16-230	23	24
RAI 110 — 16-231	25	25
RAI 110 — 16-232	26	26
RAI 110 — 16-233	27	27
RAI 110 — 16-234	28	28
RAI 110 — 16-235	29	30
RAI 110 — 16-236	31	31
RAI 110 — 16-237	32	32
RAI 110 — 16-238	33	33
RAI 110 — 16-239	34	34
RAI 110 — 16-240	35	35
RAI 110 — 16-241	36	36
RAI 110 — 16-242	37	37

A complete answer is not provided for 12 of the 33 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 110 — 16-212	March 19, 2009
RAI 110 — 16-213	March 19, 2009
RAI 110 — 16-215	March 19, 2009
RAI 110 — 16-217	June 30, 2009
RAI 110 — 16-222	March 31, 2009
RAI 110 — 16-223	March 31, 2009
RAI 110 — 16-226	June 30, 2009
RAI 110 — 16-227	March 31, 2009
RAI 110 — 16-228	March 31, 2009
RAI 110 — 16-236	March 31, 2009
RAI 110 — 16-237	June 30, 2009
RAI 110 — 16-241	March 31, 2009

Sincerely,

Ronda Pederson
ronda.pederson@areva.com
Licensing Manager, U.S. EPR(TM) Design Certification
AREVA NP Inc.
An AREVA and Siemens company
3315 Old Forest Road
Lynchburg, VA 24506-0935

Phone: 434-832-3694
Cell: 434-841-8788

From: Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Tuesday, October 28, 2008 9:57 AM
To: ZZ-DL-A-USEPR-DL
Cc: Robert Prato; Michael Marshall; Peter Hearn; Joseph Colaccino; John Rycyna
Subject: U.S. EPR Design Certification Application RAI No. 110 (1295, 1331),FSAR Ch. 16

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on October 20, 2008, and on October 28, 2008, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft RAI. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 1135

Mail Envelope Properties (F322AA625A7A7443A9C390B0567503A10193B0E9)

Subject: Response to U.S. EPR Design Certification Application RAI No. 110, FSAR Ch 16, Supplement 4
Sent Date: 2/11/2010 2:45:53 PM
Received Date: 2/11/2010 2:46:06 PM
From: DUNCAN Leslie E (AREVA NP INC)

Created By: Leslie.Duncan@areva.com

Recipients:
"DELANO Karen V (AREVA NP INC)" <Karen.Delano@areva.com>
Tracking Status: None
"BENNETT Kathy A (OFR) (AREVA NP INC)" <Kathy.Bennett@areva.com>
Tracking Status: None
"KOWALSKI David J (AREVA NP INC)" <David.Kowalski@areva.com>
Tracking Status: None
"ROMINE Judy (AREVA NP INC)" <Judy.Romine@areva.com>
Tracking Status: None
"Tesfaye, Getachew" <Getachew.Tesfaye@nrc.gov>
Tracking Status: None

Post Office: AUSLYNCMX01.adom.ad.corp

Files	**Size**	**Date & Time**
MESSAGE	11584	2/11/2010 2:46:06 PM
RAI 110 Supplement 4 Response US EPR DC.pdf	576751	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Response to

Request for Additional Information No. 110, Supplement 4

10/28/2008

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 16 - Technical Specifications
Application Section: FSAR Ch. 16

QUESTIONS for Technical Specification Branch (CTSB)

Question 16-212:

Provide a summary of the analysis or identify the summary of the analysis in the EPR FSAR.

In the EPR FSAR add a summary of the analysis (if needed) and identify in the EPR Bases, Section B 3.3.2 where the summary of the analysis can be found in the EPR FSAR to ensure that the EPR GTS, Table 3.3.2-1, Post Accident Monitoring Instrumentation includes the entire population of instruments required by GDC 13, 19 and 64 and the guidance included in IEEE 497-2002 and Regulatory Guide 1.97. that established the required instrumentation for post accident monitoring.

This additional information is needed to ensure the accuracy and completeness of the EPR GTS, Bases and FSAR.

Response to Question 16-212:

The original response to this question was provided in the Response to RAI 110, Supplement 1, dated March 19, 2009. This updated Response to Question 16-212 supersedes the original response in its entirety.

The response to RAI 110, Supplement 1, Question 16-212 is being updated in order to incorporate guidance found in DC/COL ISG-08 “Final Interim Staff Guidance Necessary Content of Plant Specific Technical Specifications When a Combined License Is Issued” [ML083310259]. DC/COL ISG-08 clarifies that the COL applicants must provide complete Plant Technical Specifications (PTS) at the time that the COL is issued and that this action cannot be deferred to the COL Holder or licensee. DC/COL ISG-08 also provides the following three options to be used in order to satisfy the requirement for complete PTS (in order of preference):

(1) Provide a plant-specific value.

(2) Provide a value that bounds the plant-specific value but by which the plant may be safely operated (i.e., a useable bounding value).

(3) Establish a PTS Section 5.5 or 5.6 administrative control program or report.

DC/COL ISG-08 states that Options (2) and (3) allow an applicant to provide the necessary information without relying on information that is impractical to obtain before the time of the COL issuance, and that Option (2) may be the most time-efficient approach to allow for NRC review.

Given the absence of information necessary to implement Option (1) in terms of identifying the Post-Accident Monitoring Instrumentation, and given the guidance provided in DC/COL ISG-08, AREVA is implementing Option (2) for use by the COL applicants and superseding the prior response to RAI 110, Supplement 1, Question 16-212.

AREVA NP has performed a detailed analysis to identify the post-accident monitoring instrumentation for the U.S. EPR. Because the U.S. EPR-specific emergency procedure guidelines and associated plant-specific emergency operating procedures (EOPs) and abnormal operating procedures (AOPs) are not yet available, the following methodology was used:

- A step-by-step evaluation of Volume 1, "Generic Emergency Operating Guidelines," of the EOP Technical Bases Document was performed to identify required supporting instrumentation.
- The operator manual actions listed in U.S. EPR FSAR Tier 2, Chapter 15, where no automatic control is provided, were evaluated to determine the necessary and sufficient instrumentation required to support those actions.
- The radiation monitoring system description was reviewed to determine which instruments were required for post-accident monitoring.
- Additional information was identified based on engineering judgment and the use of an expert panel review that included a team of personnel familiar with the U.S. EPR design, and with experience in plant operations, EOP generation and auditing EOPs for conformance with the technical basis document.
- An evaluation was performed to confirm that critical safety functions and fission product barriers defined in IEEE 497-2002 were adequately monitored.

As a result, the following changes will be made to U.S. EPR FSAR Tier 2:

- U.S. EPR FSAR Tier 2, Table 3.10-1—List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment, and Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment will be revised to reflect the new list of post-accident monitoring instrumentation.
- U.S. EPR FSAR Tier 2, Section 7.5.2.2 will be revised to reflect the methodology used for the selection of post-accident monitoring instrumentation.
- U.S. EPR FSAR Tier 2, Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables will be revised to reflect the new list of post-accident monitoring instrumentation.
- U.S. EPR FSAR Tier 2, Section 12.3.4 will be revised to reference U.S. EPR FSAR Tier 2, Section 7.5 for information regarding post-accident monitoring instrumentation.
- U.S. EPR FSAR Tier 2, Table 12.3-3—Radiation Monitor Detector Parameters will be revised to delete the post-accident monitoring subtitle.
- U.S. EPR FSAR Tier 2, Chapter 16, Limiting Condition for Operation (LCO) 3.3.2, "Post Accident Monitoring (PAM) Instrumentation," and its associated Bases will be revised to improve consistency with the Westinghouse Standard Technical Specifications (NUREG-1431) and reflect the new list of post-accident monitoring instrumentation.

FSAR Impact:

U.S. EPR FSAR Tier 2, Section 7.5.2.2, Section 12.3.4, Chapter 16, LCO 3.3.2 and associated Bases, Table 3.10-1, Table 3.11-1, Table 7.5-1, and Table 12.3-3 will be revised as described in the response and indicated on the enclosed markup.

U.S. EPR Final Safety Analysis Report Markups

Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 16 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SG NR Level Sensor #3 Loop 1 (PB)	30JEA10CL803	30UJA29003	H	H	SI	S	Y (5)
SG NR Level Sensor #4 Loop 1 (PB)	30JEA10CL804	30UJA29003	H	H	SI	S	Y (5)
SG WR Level Sensor #1 Loop 1 (PB)	30JEA10CL809	30UJA15003	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #2 Loop 1 (PB)	30JEA10CL810	30UJA15003	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #3 Loop 1 (PB)	30JEA10CL811	30UJA15003	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #4 Loop 1 (PB)	30JEA10CL812	30UJA15003	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #5 Loop 1 (PB)	30JEA10CL020	30UJA15003	H	H	SI	S	Y (5)
Steam Generator, Loop 2							
Steam Generator Loop 2	30JEA20AC001	30UJA15004	H	H	SI	S	Y (5)
SG WR Level Instr Lower Vlv #1 Loop 2	30JEA20AA301	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #2 Loop 2	30JEA20AA303	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #3 Loop 2	30JEA20AA305	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #4 Loop 2	30JEA20AA307	30UJA18004	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #1 Loop 2	30JEA20AA302	30UJA34004	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #2 Loop 2	30JEA20AA304	30UJA34004	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #3 Loop 2	30JEA20AA306	30UJA34004	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #4 Loop 2	30JEA20AA308	30UJA34004	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #1 Loop 2	30JEA20AA309	30UJA29004	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #2 Loop 2	30JEA20AA311	30UJA29004	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #3 Loop 2	30JEA20AA313	30UJA29004	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #4 Loop 2	30JEA20AA315	30UJA29004	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Cold Cal Level Instr Vlv Loop 2	30JEA20AA317	30UJA18004	H	H	SI	S C/NM	Y (4) Y (5)
SG Sample Vlv Loop 2	30JEA20AA601	30UJA29004	H	H	SI	S C/NM	Y (4) Y (5)
Main Steam Flow Sensor #1 Loop 2 (PB)	30JEA20CF030	30UJA34004	H	H	SI	S	Y (5)
Main Steam Flow Sensor #2 Loop 2 (PB)	30JEA20CF031	30UJA34004	H	H	SI	S	Y (5)
Main Steam Flow Sensor #3 Loop 2 (PB)	30JEA20CF032	30UJA34004	H	H	SI	S	Y (5)
SG NR Level Sensor #1 Loop 2 (PB)	30JEA20CL801	30UJA29004	H	H	SI	S	Y (5)
SG NR Level Sensor #2 Loop 2 (PB)	30JEA20CL802	30UJA29004	H	H	SI	S	Y (5)
SG NR Level Sensor #3 Loop 2 (PB)	30JEA20CL803	30UJA29004	H	H	SI	S	Y (5)
SG NR Level Sensor #4 Loop 2 (PB)	30JEA20CL804	30UJA29004	H	H	SI	S	Y (5)
SG WR Level Sensor #1 Loop 2 (PB)	30JEA20CL809	30UJA15004	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #2 Loop 2 (PB)	30JEA20CL810	30UJA15004	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #3 Loop 2 (PB)	30JEA20CL811	30UJA15004	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #4 Loop 2 (PB)	30JEA20CL812	30UJA15004	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #5 Loop 2 (PB)	30JEA20CL020	30UJA15004	H	H	SI	S	Y (5)
Steam Generator, Loop 3							
Steam Generator Loop 3	30JEA30AC001	30UJA15007	H	H	SI	S	Y (5)

16-212

Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 17 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SG WR Level Instr Lower Vlv #1 Loop 3	30JEA30AA301	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #2 Loop 3	30JEA30AA303	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #3 Loop 3	30JEA30AA305	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #4 Loop 3	30JEA30AA307	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #1 Loop 3	30JEA30AA302	30UJA34007	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #2 Loop 3	30JEA30AA304	30UJA34007	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #3 Loop 3	30JEA30AA306	30UJA34007	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #4 Loop 3	30JEA30AA308	30UJA34007	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #1 Loop 3	30JEA30AA309	30UJA29007	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #2 Loop 3	30JEA30AA311	30UJA29007	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #3 Loop 3	30JEA30AA313	30UJA29007	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #4 Loop 3	30JEA30AA315	30UJA29007	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Cold Cal Level Instr Vlv Loop 3	30JEA30AA317	30UJA18007	H	H	SI	S C/NM	Y (4) Y (5)
SG Sample Vlv Loop 3	30JEA30AA601	30UJA29007	H	H	SI	S C/NM	Y (4) Y (5)
Main Steam Flow Sensor #1 Loop 3 (PB)	30JEA30CF030	30UJA34007	H	H	SI	S	Y (5)
Main Steam Flow Sensor #2 Loop 3 (PB)	30JEA30CF031	30UJA34007	H	H	SI	S	Y (5)
Main Steam Flow Sensor #3 Loop 3 (PB)	30JEA30CF032	30UJA34007	H	H	SI	S	Y (5)
SG NR Level Sensor #1 Loop 3 (PB)	30JEA30CL801	30UJA29007	H	H	SI	S	Y (5)
SG NR Level Sensor #2 Loop 3 (PB)	30JEA30CL802	30UJA29007	H	H	SI	S	Y (5)
SG NR Level Sensor #3 Loop 3 (PB)	30JEA30CL803	30UJA29007	H	H	SI	S	Y (5)
SG NR Level Sensor #4 Loop 3 (PB)	30JEA30CL804	30UJA29007	H	H	SI	S	Y (5)
SG WR Level Sensor #1 Loop 3 (PB)	30JEA30CL809	30UJA15007	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #2 Loop 3 (PB)	30JEA30CL810	30UJA15007	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #3 Loop 3 (PB)	30JEA30CL811	30UJA15007	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #4 Loop 3 (PB)	30JEA30CL812	30UJA15007	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #5 Loop 3 (PB)	30JEA30CL020	30UJA15007	H	H	SI	S	Y (5)
Steam Generator, Loop 4							
Steam Generator Loop 4	30JEA40AC001	30UJA15008	H	H	SI	S	Y (5)
SG WR Level Instr Lower Vlv #1 Loop 4	30JEA40AA301	30UJA18008	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #2 Loop 4	30JEA40AA303	30UJA18008	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #3 Loop 4	30JEA40AA305	30UJA18008	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Level Instr Lower Vlv #4 Loop 4	30JEA40AA307	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #1 Loop 4	30JEA40AA302	30UJA34008	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #2 Loop 4	30JEA40AA304	30UJA34008	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #3 Loop 4	30JEA40AA306	30UJA34008	H	H	SI	S C/NM	Y (4) Y (5)
SG Level Instr Upper Vlv #4 Loop 4	30JEA40AA308	30UJA34008	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #1 Loop 4	30JEA40AA309	30UJA29008	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #2 Loop 4	30JEA40AA311	30UJA29008	H	H	SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SG NR Level Instr Lower Vlv #3 Loop 4	30JEA40AA313	30UJA29008	H	H	SI	S C/NM	Y (4) Y (5)
SG NR Level Instr Lower Vlv #4 Loop 4	30JEA40AA315	30UJA29008	H	H	SI	S C/NM	Y (4) Y (5)
SG WR Cold Cal Level Instr Vlv Loop 4	30JEA40AA317	30UJA18008	H	H	SI	S C/NM	Y (4) Y (5)
SG Sample Vlv Loop 4	30JEA40AA601	30UJA29008	H	H	SI	S C/NM	Y (4) Y (5)
Main Steam Flow Sensor #1 Loop 4 (PB)	30JEA40CF030	30UJA34008	H	H	SI	S	Y (5)
Main Steam Flow Sensor #2 Loop 4 (PB)	30JEA40CF031	30UJA34008	H	H	SI	S	Y (5)
Main Steam Flow Sensor #3 Loop 4 (PB)	30JEA40CF032	30UJA34008	H	H	SI	S	Y (5)
SG NR Level Sensor #1 Loop 4 (PB)	30JEA40CL801	30UJA29008	H	H	SI	S	Y (5)
SG NR Level Sensor #2 Loop 4 (PB)	30JEA40CL802	30UJA29008	H	H	SI	S	Y (5)
SG NR Level Sensor #3 Loop 4 (PB)	30JEA40CL803	30UJA29008	H	H	SI	S	Y (5)
SG NR Level Sensor #4 Loop 4 (PB)	30JEA40CL804	30UJA29008	H	H	SI	S	Y (5)
SG WR Level Sensor #1 Loop 4 (PB)	30JEA40CL809	30UJA15008	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #2 Loop 4 (PB)	30JEA40CL810	30UJA15008	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #3 Loop 4 (PB)	30JEA40CL811	30UJA15008	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #4 Loop 4 (PB)	30JEA40CL812	30UJA15008	H	H	PAM SI	S	Y (5)
SG WR Level Sensor #5 Loop 4 (PB)	30JEA40CL020	30UJA15008	H	H	SI	S	Y (5)
RCP, Loop 1							
Reactor Coolant Pump Loop 1	30JEB10AP001	30UJA11002	H	H	SI	S C/NM	Y (4) Y (5)
TB Inlet Cooling Water Vlv Loop 1	30JEB10AA021	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
TB Inlet Water Check Vlv Loop 1	30JEB10AA001	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
TB Outlet Water Throttle Vlv Loop 1	30JEB10AA002	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
TB Outlet Cooling Water Vlv Loop 1	30JEB10AA003	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
TB Cooling Water Relief Vlv Loop 1	30JEB10AA191	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
TB Cooling Water Press Vlv Loop 1	30JEB10AA302	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Sweeping Vlv #1 Loop 1	30JEB10AA006	30UJA34014	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Sweeping Vlv #2 Loop 1	30JEB10AA029	30UJA34014	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Inject Vlv #1 Loop 1	30JEB10AA005	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Inject Vlv #2 Loop 1	30JEB10AA004	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Injec Bypass Vlv #1 Loop 1	30JEB10AA007	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Injec Bypass Vlv #2 Loop 1	30JEB10AA008	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Inject Drain Vlv #1 Loop 1	30JEB10AA410	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Inject Drain Vlv #2 Loop 1	30JEB10AA412	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Inject Drain Vlv #3 Loop 1	30JEB10AA411	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Leakoff Vlv Loop 1	30JEB10AA009	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Leakoff Drain Vlv #1 Loop 1	30JEB10AA501	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Leakoff Drain Vlv #2 Loop 1	30JEB10AA502	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Diff Press Vlv #1 Loop 1	30JEB10AA303	30UJA15002	H	H	SI	S C/NM	Y (4) Y (5)
RCP Seal #1 Diff Press Vlv #2 Loop 1	30JEB10AA304	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 30 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Flowrate Instr Inner Radius Vlv Loop 1	30JEC10AA305	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #1 Loop 1	30JEC10AA304	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #2 Loop 1	30JEC10AA306	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #3 Loop 1	30JEC10AA307	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #4 Loop 1	30JEC10AA308	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #1 Loop 1	30JEC10AA310	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #2 Loop 1	30JEC10AA312	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #1 Loop 1	30JEC10AA311	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #2 Loop 1	30JEC10AA313	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
RCS Flowrate Sensor #1 Loop 1 (PB)	30JEC10CF815	30UJA15003	H	H	SI	S	Y (5)
RCS Flowrate Sensor #2 Loop 1 (PB)	30JEC10CF817	30UJA15003	H	H	SI	S	Y (5)
RCS Flowrate Sensor #3 Loop 1 (PB)	30JEC10CF819	30UJA15003	H	H	SI	S	Y (5)
RCS Flowrate Sensor #4 Loop 1 (PB)	30JEC10CF821	30UJA15003	H	H	SI	S	Y (5)
RCS Loop Level Sensor Loop 1 (PB)	30JEC10CL823	30UJA15003	H	H	SI	S	Y (5)
RCP Delta P Sensor #1 Loop 1 (PB)	30JEC10CP801	30UJA15003	H	H	SI	S	Y (5)
RCP Delta P Sensor #2 Loop 1 (PB)	30JEC10CP802	30UJA15003	H	H	SI	S	Y (5)
H/L NR Temp Sensor #1 Loop 1 (PB)	30JEC10CT801	30UJA15003	H	H	SI	S	Y (5)
H/L NR Temp Sensor #2 Loop 1 (PB)	30JEC10CT802	30UJA15003	H	H	SI	S	Y (5)
H/L NR Temp Sensor #3 Loop 1 (PB)	30JEC10CT803	30UJA15003	H	H	SI	S	Y (5)
H/L NR Temp Sensor #4 Loop 1 (PB)	30JEC10CT804	30UJA15003	H	H	SI	S	Y (5)
H/L WR Temp Sensor Loop 1 (PB)	30JEC10CT805	30UJA15003	H	H	PAM SI	S	Y (5)
C/L NR Temp Sensor #1 Loop 1 (PB)	30JEC10CT807	30UJA15002	H	H	SI	S	Y (5)
C/L NR Temp Sensor #2 Loop 1 (PB)	30JEC10CT808	30UJA15002	H	H	SI	S	Y (5)
C/L WR Temp Sensor Loop 1 (PB)	30JEC10CT811	30UJA15002	H	H	PAM SI	S	Y (5)
Reactor Coolant Loop 2							
H/L Level Instr Lower Vlv Loop 2	30JEC20AA303	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
H/L Level Instr Upper Vlv Loop 2	30JEC20AA302	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Inner Radius Vlv Loop 2	30JEC20AA305	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #1 Loop 2	30JEC20AA304	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #2 Loop 2	30JEC20AA306	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #3 Loop 2	30JEC20AA307	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #4 Loop 2	30JEC20AA308	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #1 Loop 2	30JEC20AA310	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #2 Loop 2	30JEC20AA312	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #1 Loop 2	30JEC20AA311	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #2 Loop 2	30JEC20AA313	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
RCS Flowrate Sensor #1 Loop 2 (PB)	30JEC20CF815	30UJA15004	H	H	SI	S	Y (5)
RCS Flowrate Sensor #2 Loop 2 (PB)	30JEC20CF817	30UJA15004	H	H	SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 31 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
RCS Flowrate Sensor #3 Loop 2 (PB)	30JEC20CF819	30UJA15004	H	H	SI	S	Y (5)
RCS Flowrate Sensor #4 Loop 2 (PB)	30JEC20CF821	30UJA15004	H	H	SI	S	Y (5)
RCS Loop Level Sensor Loop 2 (PB)	30JEC20CL823	30UJA15004	H	H	SI	S	Y (5)
RCP Delta P Sensor #1 Loop 2 (PB)	30JEC20CP801	30UJA15004	H	H	SI	S	Y (5)
RCP Delta P Sensor #2 Loop 2 (PB)	30JEC20CP802	30UJA15004	H	H	SI	S	Y (5)
H/L NR Temp Sensor #1 Loop 2 (PB)	30JEC20CT801	30UJA15004	H	H	SI	S	Y (5)
H/L NR Temp Sensor #2 Loop 2 (PB)	30JEC20CT802	30UJA15004	H	H	SI	S	Y (5)
H/L NR Temp Sensor #3 Loop 2 (PB)	30JEC20CT803	30UJA15004	H	H	SI	S	Y (5)
H/L NR Temp Sensor #4 Loop 2 (PB)	30JEC20CT804	30UJA15004	H	H	SI	S	Y (5)
H/L WR Temp Sensor Loop 2 (PB)	30JEC20CT805	30UJA15004	H	H	PAM SI	S	Y (5)
C/L NR Temp Sensor #1 Loop 2 (PB)	30JEC20CT807	30UJA15005	H	H	SI	S	Y (5)
C/L NR Temp Sensor #2 Loop 2 (PB)	30JEC20CT808	30UJA15005	H	H	SI	S	Y (5)
C/L WR Temp Sensor Loop 2 (PB)	30JEC20CT811	30UJA15005	H	H	PAM SI	S	Y (5)
Reactor Coolant Loop 3							
H/L Level Instr Lower Vlv Loop 3	30JEC30AA303	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
H/L Level Instr Upper Vlv Loop 3	30JEC30AA302	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Inner Radius Vlv Loop 3	30JEC30AA305	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #1 Loop 3	30JEC30AA304	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #2 Loop 3	30JEC30AA306	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #3 Loop 3	30JEC30AA307	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #4 Loop 3	30JEC30AA308	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #1 Loop 3	30JEC30AA310	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #2 Loop 3	30JEC30AA312	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #1 Loop 3	30JEC30AA311	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #2 Loop 3	30JEC30AA313	30UJA15007	H	H	SI	S C/NM	Y (4) Y (5)
RCS Flowrate Sensor #1 Loop 3 (PB)	30JEC30CF815	30UJA15007	H	H	SI	S	Y (5)
RCS Flowrate Sensor #2 Loop 3 (PB)	30JEC30CF817	30UJA15007	H	H	SI	S	Y (5)
RCS Flowrate Sensor #3 Loop 3 (PB)	30JEC30CF819	30UJA15007	H	H	SI	S	Y (5)
RCS Flowrate Sensor #4 Loop 3 (PB)	30JEC30CF821	30UJA15007	H	H	SI	S	Y (5)
RCS Loop Level Sensor Loop 3 (PB)	30JEC30CL823	30UJA15007	H	H	SI	S	Y (5)
RCP Delta P Sensor #1 Loop 3 (PB)	30JEC30CP801	30UJA15007	H	H	SI	S	Y (5)
RCP Delta P Sensor #2 Loop 3 (PB)	30JEC30CP802	30UJA15007	H	H	SI	S	Y (5)
H/L NR Temp Sensor #1 Loop 3 (PB)	30JEC30CT801	30UJA15007	H	H	SI	S	Y (5)
H/L NR Temp Sensor #2 Loop 3 (PB)	30JEC30CT802	30UJA15007	H	H	SI	S	Y (5)
H/L NR Temp Sensor #3 Loop 3 (PB)	30JEC30CT803	30UJA15007	H	H	SI	S	Y (5)
H/L NR Temp Sensor #4 Loop 3 (PB)	30JEC30CT804	30UJA15007	H	H	SI	S	Y (5)
H/L WR Temp Sensor Loop 3 (PB)	30JEC30CT805	30UJA15007	H	H	PAM SI	S	Y (5)
C/L NR Temp Sensor #1 Loop 3 (PB)	30JEC30CT807	30UJA15006	H	H	SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 32 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
C/L NR Temp Sensor #2 Loop 3 (PB)	30JEC30CT808	30UJA15006	H	H	SI	S	Y (5)
C/L WR Temp Sensor Loop 3 (PB)	30JEC30CT811	30UJA11006	H	H	PAM SI	S	Y (5)
PZR Surge Line Temp Sensor (PB)	30JEC30CT056	30UJA15007	H	H	SI	S	Y (5)
Reactor Coolant Loop 4							
H/L Level Instr Lower Vlv Loop 4	30JEC40AA303	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
H/L Level Instr Upper Vlv Loop 4	30JEC40AA302	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Inner Radius Vlv Loop 4	30JEC40AA305	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #1 Loop 4	30JEC40AA304	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #2 Loop 4	30JEC40AA306	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #3 Loop 4	30JEC40AA307	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
Flowrate Instr Outer Rad Vlv #4 Loop 4	30JEC40AA308	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #1 Loop 4	30JEC40AA310	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
RCP Suction Press Instr Vlv #2 Loop 4	30JEC40AA312	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #1 Loop 4	30JEC40AA311	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
RCP Disch Press Instr Vlv #2 Loop 4	30JEC40AA313	30UJA15008	H	H	SI	S C/NM	Y (4) Y (5)
RCS Flowrate Sensor #1 Loop 4 (PB)	30JEC40CF815	30UJA15008	H	H	SI	S	Y (5)
RCS Flowrate Sensor #2 Loop 4 (PB)	30JEC40CF817	30UJA15008	H	H	SI	S	Y (5)
RCS Flowrate Sensor #3 Loop 4 (PB)	30JEC40CF819	30UJA15008	H	H	SI	S	Y (5)
RCS Flowrate Sensor #4 Loop 4 (PB)	30JEC40CF821	30UJA15008	H	H	SI	S	Y (5)
RCS Loop Level Sensor Loop 4 (PB)	30JEC40CL823	30UJA15008	H	H	SI	S	Y (5)
RCP Delta P Sensor #1 Loop 4 (PB)	30JEC40CP801	30UJA15008	H	H	SI	S	Y (5)
RCP Delta P Sensor #2 Loop 4 (PB)	30JEC40CP802	30UJA15008	H	H	SI	S	Y (5)
H/L NR Temp Sensor #1 Loop 4 (PB)	30JEC40CT801	30UJA15008	H	H	SI	S	Y (5)
H/L NR Temp Sensor #2 Loop 4 (PB)	30JEC40CT802	30UJA15008	H	H	SI	S	Y (5)
H/L NR Temp Sensor #3 Loop 4 (PB)	30JEC40CT803	30UJA15008	H	H	SI	S	Y (5)
H/L NR Temp Sensor #4 Loop 4 (PB)	30JEC40CT804	30UJA15008	H	H	SI	S	Y (5)
H/L WR Temp Sensor Loop 4 (PB)	30JEC40CT805	30UJA15008	H	H	PAM SI	S	Y (5)
C/L NR Temp Sensor #1 Loop 4 (PB)	30JEC40CT807	30UJA15009	H	H	SI	S	Y (5)
C/L NR Temp Sensor #2 Loop 4 (PB)	30JEC40CT808	30UJA15009	H	H	SI	S	Y (5)
C/L WR Temp Sensor Loop 4 (PB)	30JEC40CT811	30UJA15009	H	H	PAM SI	S	Y (5)
Pressurizer							
Pressurizer	30JEF10BB001	30UJA23019	H	H	SI	S	Y (5)
PSRV #1	30JEF10AA191	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PSRV #1 Pilot Valve #1	30JEF10AA739	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PSRV #1 Pilot Valve #2	30JEF10AA740	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PSRV #1 Pilot #1 Impulse Vlv	30JEF10AA711	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PSRV #1 Pilot #2 Impulse Vlv	30JEF10AA712	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 37 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
PZR On-Off Heater #6 Train 4 (PB)	30JEF10AH434C	30UJA18019	H	H	SI	S C/NM	Y (4) Y (5)
PSRV #1 Position Sensor (M)	30JEF10CG191B	30UJA34019	H	H	PAM SII	NS-AQ	Y (5)
PSRV #1 Temp Sensor #1 (PB)	30JEG10CT013	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #1 Temp Sensor #2 (PB)	30JEG10CT016	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #1 Temp Sensor #3 (PB)	30JEG10CT017	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #1 Relief Line Temp Sensor (PB)	30JEF10CT061	30UJA34019	H	H	SI	S	Y (5)
PSRV #2 Position Sensor (M)	30JEF10CG192B	30UJA34019	H	H	PAM SII	NS-AQ	Y (5)
PSRV #2 Temp Sensor #1 (PB)	30JEG10CT023	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #2 Temp Sensor #2 (PB)	30JEG10CT026	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #2 Temp Sensor #3 (PB)	30JEG10CT027	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #2 Relief Line Temp Sensor (PB)	30JEF10CT062	30UJA34019	H	H	SI	S	Y (5)
PSRV #3 Position Sensor (M)	30JEF10CG193B	30UJA34019	H	H	PAM SII	NS-AQ	Y (5)
PSRV #3 Temp Sensor #1 (PB)	30JEG10CT033	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #3 Temp Sensor #2 (PB)	30JEG10CT036	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #3 Temp Sensor #3 (PB)	30JEG10CT037	30UJA34019	H	H	SII	NS-AQ	Y (5)
PSRV #3 Relief Line Temp Sensor (PB)	30JEF10CT063	30UJA34019	H	H	SI	S	Y (5)
PDS Vlv Temp Sensor (PB)	30JEF10CT064	30UJA34019	H	H	SI	S	Y (5)
PZR Spray Temp Sensor #1 (PB)	30JEF10CT054	30UJA29019	H	H	SI	S	Y (5)
PZR Spray Temp Sensor #2 (PB)	30JEF10CT055	30UJA29019	H	H	SI	S	Y (5)
PZR/RCS Level Sensor #1 (PB)	30JEF10CL081	30UJA15008	H	H	SI	S	Y (5)
PZR/RCS Level Sensor #2 (PB)	30JEF10CL782	30UJA15008	H	H	SI	S	Y (5)
PZR Level Sensor #1 (PB)	30JEF10CL802	30UJA15009	H	H	PAM SI	S	Y (5)
PZR Level Sensor #2 (PB)	30JEF10CL804	30UJA15009	H	H	PAM SI	S	Y (5)
PZR Level Sensor #3 (PB)	30JEF10CL806	30UJA15009	H	H	PAM SI	S	Y (5)
PZR Level Sensor #4 (PB)	30JEF10CL808	30UJA15009	H	H	PAM SI	S	Y (5)
PZR NR Press Sensor #1 (PB)	30JEF10CP801	30UJA18019	H	H	SI	S	Y (5)
PZR NR Press Sensor #2 (PB)	30JEF10CP803	30UJA18019	H	H	SI	S	Y (5)
PZR NR Press Sensor #3 (PB)	30JEF10CP805	30UJA18019	H	H	SI	S	Y (5)
PZR NR Press Sensor #4 (PB)	30JEF10CP807	30UJA18019	H	H	SI	S	Y (5)
PZR Steam Temp Sensor (PB)	30JEF10CT050	30UJA29019	H	H	SI	S	Y (5)
PZR Water Temp Sensor (PB)	30JEF10CT057	30UJA29019	H	H	SI	S	Y (5)
Pressurizer Relief System							
PRT	30JEG10BB001	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Instr Lower Vlv	30JEG10AA310	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Instr Upper Vlv	30JEG10AA309	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Vacuum Breaker	30JEG10AA015	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Rupture Disk #1	30JEG10AA195	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Rupture Disk #2	30JEG10AA196	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
PRT Disch Line #1 Thermal Exp Bellow	30JEG10BZ195	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Disch Line #2 Thermal Exp Bellow	30JEG10BZ196	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Disch Line C-C Thermal Exp Bellow	30JEG10BZ197	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Disch Line #1 Penetration	30JEG10BQ195	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Disch Line #2 Penetration	30JEG10BQ196	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Tank Filling Line Iso Vlv	30JEG10AA013	30UJA15018	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Cooling Line Iso Vlv	30JEG10AA012	30UJA15018	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Vent Line Iso Vlv	30JEG10AA014	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Drain Vlv	30JEG10AA401	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR Degassing Vlv #1	30JEF10AA503	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PZR Degassing Vlv #2	30JEF10AA504	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PZR Degassing Vlv #3	30JEG10AA504	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR Degassing Vlv #4	30JEG10AA505	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR Degassing Vlv #5	30JEG10AA506	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR High Flow Degas Limiter	30JEG10BP504	30UJA34015	H	H	SII	NS-AQ	Y (5)
PZR Low Flow Degas Limiter	30JEG10BP505	30UJA34015	H	H	SII	NS-AQ	Y (5)
PZR Degassing Vent Iso Vlv	30JEG10AA025	30UJA11019	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR Degassing Drain Vlv #1	30JEF10AA402	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PZR Degassing Drain Vlv #2	30JEF10AA403	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PZR Vacuum Pump/N2 Vlv #1	30JEF10AA501	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PZR Vacuum Pump/N2 Vlv #2	30JEF10AA502	30UJA34019	H	H	SI	S C/NM	Y (4) Y (5)
PZR Nitrogen Supply Iso Vlv	30JEG10AA019	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR Nitrogen Supply Check Vlv	30JEG10AA021	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PZR Vacuum Pump Iso Vlv	30JEG10AA503	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
PRT Level Sensor #1 (PB)	30JEG10CL051	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Level Sensor #2 (PB)	30JEG10CL151	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Press Sensor #1 (PB)	30JEG10CP061	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Press Sensor #2 (PB)	30JEG10CP161	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Temp Sensor #1 (PB)	30JEG10CT021	30UJA11019	H	H	SII	NS-AQ	Y (5)
PRT Temp Sensor #2 (PB)	30JEG10CT121	30UJA11019	H	H	SII	NS-AQ	Y (5)
PZR Vacuum Press Sensor (PB)	30JEF10CP007	30UJA29019	H	H	SI	S	Y (5)
Safety Injection & Residual Heat Removal System (SIS & RHRS)							
RHR 1st RCPB Isolation Valve	30JNA10AA001	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)
RHR 2nd RCPB Isolation Valve	30JNA10AA002	30UJA11025	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
RHR Outside Containment Isolation Valve	30JNA10AA003	31UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RHR 1st RCPB Bypass Check Valve	30JNA10AA009	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 39 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
LHSI HX Bypass Control Valve	30JNA10AA101	31UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Suction Line Safety Valve	30JNA10AA191	30UJA11025	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA10CG101	31UJH05004	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA10CG191B	30UJA11025	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
SAB Sump Level Sensor 1	30JNA10CL801	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 2	30JNA10CL802	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 3	30JNA10CL803	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 4	30JNA10CL804	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg RHR Suction Pressure Sensor	30JNA10CP001	30UJA07014	H	H	SI	S C/NM	Y (4) Y (5)
SAB Pressure Sensor 1	30JNA10CP801	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 2	30JNA10CP802	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 3	30JNA10CP803	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 4	30JNA10CP804	31UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg Pressure Sensor (WR)	30JNA10CP826	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA10CP827	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
HL RHR Suction Temperature Sensor	30JNA10CT001	30UJA11003	H	H	SI	S C/NM	Y (4) Y (5)
RHR 1st RCPB Isolation Valve	30JNA20AA001	30UJA11004	H	H	ES SI	S C/NM	Y (4) Y (5)
RHR 2nd RCPB Isolation Valve	30JNA20AA002	30UJA11026	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
RHR Outside Containment Isolation Valve	30JNA20AA003	32UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RHR 1st RCPB Bypass Check Valve	30JNA20AA009	30UJA11004	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Bypass Control Valve	30JNA20AA101	32UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Suction Line Safety Valve	30JNA20AA191	30UJA11026	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA20CG101	32UJH05002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA20CG191B	30UJA11026	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
SAB Sump Level Sensor 1	30JNA20CL801	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 2	30JNA20CL802	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 3	30JNA20CL803	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 4	30JNA20CL804	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg RHR Suction Pressure Sensor	30JNA20CP001	30UJA07014	H	H	SI	S C/NM	Y (4) Y (5)
SAB Pressure Sensor 1	30JNA20CP801	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 2	30JNA20CP802	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 3	30JNA20CP803	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 4	30JNA20CP804	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg Pressure Sensor (WR)	30JNA20CP826	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA20CP827	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
HL RHR Suction Temperature Sensor	30JNA20CT001	30UJA11004	H	H	SI	S C/NM	Y (4) Y (5)
RHR 1st RCPB Isolation Valve	30JNA30AA001	30UJA11007	H	H	ES SI	S C/NM	Y (4) Y (5)
RHR 2nd RCPB Isolation Valve	30JNA30AA002	30UJA11027	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
RHR Outside Containment Isolation Valve	30JNA30AA003	33UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 40 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
HX Byp. Iso. Valve on Puri. Line to CVCS	30JNA30AA004	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
HX Byp. Check Valve on Puri. Ln. to CVCS	30JNA30AA006	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR 1st RCPB Bypass Check Valve	30JNA30AA009	30UJA11007	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Bypass Control Valve	30JNA30AA101	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
HX Byp. Thr. Valve on Puri. Line to CVCS	30JNA30AA103	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Suction Line Safety Valve	30JNA30AA191	30UJA11027	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA30CG101	33UJH05002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
HX Thr. Val. on Puri. to CVCS Pos. Ssr.	30JNA30CG103	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA30CG191B	30UJA11027	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
SAB Sump Level Sensor 1	30JNA30CL801	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 2	30JNA30CL802	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 3	30JNA30CL803	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 4	30JNA30CL804	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg RHR Suction Pressure Sensor	30JNA30CP001	30UJA07015	H	H	SI	S C/NM	Y (4) Y (5)
SAB Pressure Sensor 1	30JNA30CP801	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 2	30JNA30CP802	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 3	30JNA30CP803	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Pressure Sensor 4	30JNA30CP804	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg Pressure Sensor (WR)	30JNA30CP826	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA30CP827	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
HL RHR Suction Temperature Sensor	30JNA30CT001	30UJA11007	H	H	SI	S C/NM	Y (4) Y (5)
Low-Pressure Puri. Line Temp. Sensor	30JNA30CT002	33UJH05002	M	H	SI	S C/NM	Y (3) Y (5)
RHR 1st RCPB Isolation Valve	30JNA40AA001	30UJA11008	H	H	ES SI	S C/NM	Y (4) Y (5)
RHR 2nd RCPB Isolation Valve	30JNA40AA002	30UJA11028	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
RHR Outside Containment Isolation Valve	30JNA40AA003	34UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
HX Byp. Iso. Valve on Puri. Line to CVCS	30JNA40AA004	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
HX Byp. Check Valve on Puri. Ln. to CVCS	30JNA40AA006	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR 1st RCPB Bypass Check Valve	30JNA40AA009	30UJA11008	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Bypass Control Valve	30JNA40AA101	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
HX Byp. Thr. Valve on Puri. Line to CVCS	30JNA40AA103	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Suction Line Safety Valve	30JNA40AA191	30UJA11028	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA40CG101	34UJH05004	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
HX Thr. Val. on Puri. to CVCS Pos. Ssr.	30JNA40CG103	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA40CG191B	30UJA11028	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
SAB Sump Level Sensor 1	30JNA40CL801	34UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 2	30JNA40CL802	34UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 3	30JNA40CL803	34UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
SAB Sump Level Sensor 4	30JNA40CL804	34UJH10004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Hot Leg RHR Suction Pressure Sensor	30JNA40CP001	30UJA07015	H	H	SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SAB Pressure Sensor 1	30JNA40CP801	34UJH10004	M	H	SII	NS-AQ	C/NM Y (3) Y (5)
SAB Pressure Sensor 2	30JNA40CP802	34UJH10004	M	H	SII	NS-AQ	C/NM Y (3) Y (5)
SAB Pressure Sensor 3	30JNA40CP803	34UJH10004	M	H	SII	NS-AQ	C/NM Y (3) Y (5)
SAB Pressure Sensor 4	30JNA40CP804	34UJH10004	M	H	SII	NS-AQ	C/NM Y (3) Y (5)
Hot Leg Pressure Sensor (WR)	30JNA40CP826	30UJA07016	H	H	ES PAM SI	S	C/NM Y (4) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA40CP827	30UJA07016	H	H	ES PAM SI	S	C/NM Y (4) Y (5)
HL RHR Suction Temperature Sensor	30JNA40CT001	30UJA11008	H	H	SI	S	C/NM Y (4) Y (5)
Low-Pressure Puri. Line Temp. Sensor	30JNA40CT002	34UJH05004	M	H	SI	S	C/NM Y (3) Y (5)
MHSI Suction Isolation Valve	30JND10AA001	31UJH01002	M	H	ES SI	S	C/NM Y (3) Y (5)
MHSI Outside Containment Isolation Valve	30JND10AA002	31UJH05004	M	H	ES PAM SI	S	C/NM Y (3) Y (5)
MHSI 2nd RCPB Isolation Valve	30JND10AA003	30UJA11025	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Small Miniflow Line Isolation Valve	30JND10AA004	30UJA07014	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Large Miniflow Line Isolation Valve	30JND10AA005	30UJA07014	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Inside Containment Isolation Valve	30JND10AA007	30UJA07014	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Pump	30JND10AP001	31UJH01002	M	H	ES SI	S	C/NM Y (3) Y (5)
MHSI Flowrate Sensor (WR)	30JND10CF001A	31UJH01001	M	H	ES PAM SI	S	C/NM Y (3) Y (5)
MHSI Flowrate Sensor (NR)	30JND10CF001B	31UJH01001	M	H	ES ~~PAM~~ SI	S	C/NM Y (3) Y (5)
MHSI Pump Downstream Press. Sensor	30JND10CP003	31UJH01001	M	H	ES ~~PAM~~ SI	S	C/NM Y (3) Y (5)
MHSI Pump Upstream Press. Ind. (Local)	30JND10CP501	31UJH01002	M	H	SI	S	C/NM Y (3) Y (5)
MHSI Pump Downstream Press. Ind. (Local)	30JND10CP502	31UJH01002	M	H	SI	S	C/NM Y (3) Y (5)
MHSI Suction Isolation Valve	30JND20AA001	32UJH01007	M	H	ES SI	S	C/NM Y (3) Y (5)
MHSI Outside Containment Isolation Valve	30JND20AA002	32UJH05002	M	H	ES PAM SI	S	C/NM Y (3) Y (5)
MHSI 2nd RCPB Isolation Valve	30JND20AA003	30UJA11026	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Small Miniflow Line Isolation Valve	30JND20AA004	30UJA07014	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Large Miniflow Line Isolation Valve	30JND20AA005	30UJA07014	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Inside Containment Isolation Valve	30JND20AA007	30UJA07014	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Pump	30JND20AP001	32UJH01007	M	H	ES SI	S	C/NM Y (3) Y (5)
MHSI Flowrate Sensor (WR)	30JND20CF001A	32UJH01003	M	H	ES PAM SI	S	C/NM Y (3) Y (5)
MHSI Flowrate Sensor (NR)	30JND20CF001B	32UJH01003	M	H	ES ~~PAM~~ SI	S	C/NM Y (3) Y (5)
MHSI Pump Downstream Press. Sensor	30JND20CP003	32UJH01003	M	H	ES ~~PAM~~ SI	S	C/NM Y (3) Y (5)
MHSI Pump Upstream Press. Ind. (Local)	30JND20CP501	32UJH01007	M	H	SI	S	C/NM Y (3) Y (5)
MHSI Pump Downstream Press. Ind. (Local)	30JND20CP502	32UJH01007	M	H	SI	S	C/NM Y (3) Y (5)
MHSI Suction Isolation Valve	30JND30AA001	33UJH01007	M	H	ES SI	S	C/NM Y (3) Y (5)
MHSI Outside Containment Isolation Valve	30JND30AA002	33UJH05002	M	H	ES PAM SI	S	C/NM Y (3) Y (5)
MHSI 2nd RCPB Isolation Valve	30JND30AA003	30UJA11027	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Small Miniflow Line Isolation Valve	30JND30AA004	30UJA07015	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Large Miniflow Line Isolation Valve	30JND30AA005	30UJA07015	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Inside Containment Isolation Valve	30JND30AA007	30UJA07015	H	H	ES SI	S	C/NM Y (4) Y (5)
MHSI Pump	30JND30AP001	33UJH01007	M	H	ES SI	S	C/NM Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
MHSI Flowrate Sensor (WR)	30JND30CF001A	33UJH01003	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
MHSI Flowrate Sensor (NR)	30JND30CF001B	33UJH01003	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
MHSI Pump Downstream Press. Sensor	30JND30CP003	33UJH01003	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
MHSI Pump Upstream Press. Ind. (Local)	30JND30CP501	33UJH01007	M	H	SI	S C/NM	Y (3) Y (5)
MHSI Pump Downstream Press. Ind. (Local)	30JND30CP502	33UJH01007	M	H	SI	S C/NM	Y (3) Y (5)
MHSI Suction Isolation Valve	30JND40AA001	34UJH01002	M	H	ES SI	S C/NM	Y (3) Y (5)
MHSI Outside Containment Isolation Valve	30JND40AA002	34UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
MHSI 2nd RCPB Isolation Valve	30JND40AA003	30UJA11028	H	H	ES SI	S C/NM	Y (4) Y (5)
MHSI Small Miniflow Line Isolation Valve	30JND40AA004	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
MHSI Large Miniflow Line Isolation Valve	30JND40AA005	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
MHSI Inside Containment Isolation Valve	30JND40AA007	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
MHSI Pump	30JND40AP001	34UJH01002	M	H	ES SI	S C/NM	Y (3) Y (5)
MHSI Flowrate Sensor (WR)	30JND40CF001A	34UJH01001	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
MHSI Flowrate Sensor (NR)	30JND40CF001B	34UJH01001	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
MHSI Pump Downstream Press. Sensor	30JND40CP003	34UJH01001	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
MHSI Pump Upstream Press. Ind. (Local)	30JND40CP501	34UJH01002	M	H	SI	S C/NM	Y (3) Y (5)
MHSI Pump Downstream Press. Ind. (Local)	30JND40CP502	34UJH01002	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Suction Isolation Valve	30JNG10AA001	31UJH01005	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Rad. Miniflow Line Check Valve	30JNG10AA003	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Tan. Miniflow Line Check Valve	30JNG10AA004	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI 2nd RCPB Isolation Valve	30JNG10AA006	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Inside Containment Isolation Valve	30JNG10AA009	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Isolation Valve	30JNG10AA010	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Check Valve	30JNG10AA011	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Bypass Check Valve	30JNG10AA012	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Outside Cont. Main Iso. Valve	30JNG10AA060	31UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Outside Cont. Bypass Iso. Valve	30JNG10AA061	31UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Main Control Valve	30JNG10AA102	31UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Pre-Valve	30JNG10AA104	31UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Discharge Line Safety Valve	30JNG10AA192	30UJA11025	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Sampling Line Isolation Valve	30JNG10AA601	31UJH05004	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG10AA602	31UJH05005	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG10AA603	31UJH05005	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger	30JNG10AC001	31UJH05005	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Pump	30JNG10AP001	31UJH01006	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (WR)	30JNG10CF001A	31UJH01001	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (NR)	30JNG10CF001B	31UJH01001	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG10CG192B	30UJA11025	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
LHSI HX Main Control Valve Pos. Sensor	30JNG10CG802	31UJH05004	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 43 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
LHSI Pump Downstream Press. Sensor	30JNG10CP003	31UJH05010	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Upstream Press. Ind. (Local)	30JNG10CP501	31UJH01006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Ind. (Local)	30JNG10CP502	31UJH01006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Temp. Sensor	30JNG10CT001	31UJH05004	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
RHR Temperature Sensor	30JNG10CT002	31UJH01002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Isolation Valve	30JNG12AA001	31UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Check Valve	30JNG12AA002	31UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
Hot Leg Injection Flowrate Sensor	30JNG12CF001	31UJH01001	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Accumulator Filling Line Isolation Valve	30JNG13AA002	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Filling Line Check Valve	30JNG13AA003	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS 1st RCPB Isolation Valve	30JNG13AA005	30UJA11002	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Iso. Valve	30JNG13AA006	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Check Valve	30JNG13AA007	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Isolation Valve	30JNG13AA008	30UJA11025	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Accumulator Check Valve	30JNG13AA009	30UJA11025	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Control Valve	30JNG13AA101	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Safety Valve	30JNG13AA197	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Isolation Valve	30JNG13AA502	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
Accum. Sampling Line Isolation Valve	30JNG13AA602	30UJA15013	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator	30JNG13BB001	30UJA15013	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 1 (NR)	30JNG13CL001	30UJA18013	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 2 (NR)	30JNG13CL002	30UJA18013	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (WR)	30JNG13CL003	30UJA15013	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (Local)	30JNG13CL504	30UJA15013	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 1 (NR)	30JNG13CP001	30UJA23013	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 2 (NR)	30JNG13CP002	30UJA23013	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Pressure Sensor	30JNG13CP003	30UJA07014	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (WR)	30JNG13CP004	30UJA23013	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (Local)	30JNG13CP503	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Temperature Sensor	30JNG13CT001	30UJA11003	H	H	SI	S C/NM	Y (4) Y (5)
Dead Leg Pressurization Valve	30JNG15AA001	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)
RCS Suction Line Pressurization Valve	30JNG15AA002	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Bypass Iso. Valve	30JNG15AA003	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Control Iso. Valve	30JNG15AA004	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
LHSI Suction Isolation Valve	30JNG20AA001	32UJH01008	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Rad. Miniflow Line Check Valve	30JNG20AA003	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Tan. Miniflow Line Check Valve	30JNG20AA004	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI 2nd RCPB Isolation Valve	30JNG20AA006	30UJA11004	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Inside Containment Isolation Valve	30JNG20AA009	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 44 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
LHSI Cross-Connect Isolation Valve	30JNG20AA010	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Check Valve	30JNG20AA011	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Outside Cont. Main Iso. Valve	30JNG20AA060	32UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Outside Cont. Bypass Iso. Valve	30JNG20AA061	32UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Main Control Valve	30JNG20AA102	32UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Pre-Valve	30JNG20AA104	32UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Discharge Line Safety Valve	30JNG20AA192	30UJA11026	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Sampling Line Isolation Valve	30JNG20AA601	32UJH05002	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG20AA602	32UJH05006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG20AA603	32UJH05006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger	30JNG20AC001	32UJH05006	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Pump	30JNG20AP001	32UJH01009	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (WR)	30JNG20CF001A	32UJH01003	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (NR)	30JNG20CF001B	32UJH01003	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG20CG192B	30UJA11026	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
LHSI HX Main Control Valve Pos. Sensor	30JNG20CG802	32UJH05002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Sensor	30JNG20CP003	32UJH05005	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Upstream Press. Ind. (Local)	30JNG20CP501	32UJH01009	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Ind. (Local)	30JNG20CP502	32UJH01010	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Temp. Sensor	30JNG20CT001	32UJH05002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
RHR Temperature Sensor	30JNG20CT002	32UJH01007	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Isolation Valve	30JNG22AA001	32UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Check Valve	30JNG22AA002	32UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
Hot Leg Injection Flowrate Sensor	30JNG22CF001	32UJH05010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Accumulator Filling Line Isolation Valve	30JNG23AA002	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Filling Line Check Valve	30JNG23AA003	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS 1st RCPB Isolation Valve	30JNG23AA005	30UJA11005	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Iso. Valve	30JNG23AA006	30UJA23014	H	H	SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Check Valve	30JNG23AA007	30UJA23014	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Isolation Valve	30JNG23AA008	30UJA11026	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Accumulator Check Valve	30JNG23AA009	30UJA11026	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Control Valve	30JNG23AA101	30UJA23014	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Safety Valve	30JNG23AA197	30UJA23014	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Isolation Valve	30JNG23AA502	30UJA23014	H	H	SI	S C/NM	Y (4) Y (5)
Accum. Sampling Line Isolation Valve	30JNG23AA602	30UJA15014	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator	30JNG23BB001	30UJA15014	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 1 (NR)	30JNG23CL001	30UJA18014	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 2 (NR)	30JNG23CL002	30UJA18014	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (WR)	30JNG23CL003	30UJA15014	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 45 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Accumulator Level Sensor (Local)	30JNG23CL504	30UJA15014	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 1 (NR)	30JNG23CP001	30UJA23014	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 2 (NR)	30JNG23CP002	30UJA23014	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Pressure Sensor	30JNG23CP003	30UJA07014	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (WR)	30JNG23CP004	30UJA23014	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (Local)	30JNG23CP503	30UJA23014	H	H	SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Temperature Sensor	30JNG23CT001	30UJA11004	H	H	SI	S C/NM	Y (4) Y (5)
Dead Leg Pressurization Valve	30JNG25AA001	30UJA11004	H	H	ES SI	S C/NM	Y (4) Y (5)
RCS Suction Line Pressurization Valve	30JNG25AA002	30UJA11004	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Bypass Iso. Valve	30JNG25AA003	30UJA11004	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Control Iso. Valve	30JNG25AA004	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
LHSI Suction Isolation Valve	30JNG30AA001	33UJH01008	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Rad. Miniflow Line Check Valve	30JNG30AA003	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Tan. Miniflow Line Check Valve	30JNG30AA004	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI 2nd RCPB Isolation Valve	30JNG30AA006	30UJA11027	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Inside Containment Isolation Valve	30JNG30AA009	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Isolation Valve	30JNG30AA010	30UJA11015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Check Valve	30JNG30AA011	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Outside Cont. Main Iso. Valve	30JNG30AA060	33UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Outside Cont. Bypass Iso. Valve	30JNG30AA061	33UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Main Control Valve	30JNG30AA102	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Pre-Valve	30JNG30AA104	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Discharge Line Safety Valve	30JNG30AA192	30UJA11027	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Sampling Line Isolation Valve	30JNG30AA601	33UJH05002	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG30AA602	33UJH05006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG30AA603	33UJH05006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger	30JNG30AC001	33UJH05006	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Pump	30JNG30AP001	33UJH01009	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (WR)	30JNG30CF001A	33UJH01003	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (NR)	30JNG30CF001B	33UJH01003	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG30CG192B	30UJA11027	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
LHSI HX Main Control Valve Pos. Sensor	30JNG30CG802	33UJH05002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Sensor	30JNG30CP003	33UJH05005	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Upstream Press. Ind. (Local)	30JNG30CP501	33UJH01009	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Ind. (Local)	30JNG30CP502	33UJH01009	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Temp. Sensor	30JNG30CT001	33UJH05002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
RHR Temperature Sensor	30JNG30CT002	33UJH01007	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Isolation Valve	30JNG32AA001	33UJH05002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Check Valve	30JNG32AA002	33UJH05002	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Hot Leg Injection Flowrate Sensor	30JNG32CF001	33UJH05010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Accumulator Filling Line Isolation Valve	30JNG33AA002	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Filling Line Check Valve	30JNG33AA003	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS 1st RCPB Isolation Valve	30JNG33AA005	30UJA11006	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Iso. Valve	30JNG33AA006	30UJA23015	H	H	SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Check Valve	30JNG33AA007	30UJA23015	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Isolation Valve	30JNG33AA008	30UJA11027	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Accumulator Check Valve	30JNG33AA009	30UJA11027	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Control Valve	30JNG33AA101	30UJA23015	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Safety Valve	30JNG33AA197	30UJA23015	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Isolation Valve	30JNG33AA502	30UJA23015	H	H	SI	S C/NM	Y (4) Y (5)
Accum. Sampling Line Isolation Valve	30JNG33AA602	30UJA15015	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator	30JNG33BB001	30UJA15015	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 1 (NR)	30JNG33CL001	30UJA18015	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 2 (NR)	30JNG33CL002	30UJA18015	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (WR)	30JNG33CL003	30UJA15015	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (Local)	30JNG33CL504	30UJA15015	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 1 (NR)	30JNG33CP001	30UJA23015	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 2 (NR)	30JNG33CP002	30UJA23015	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Pressure Sensor	30JNG33CP003	30UJA07015	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (WR)	30JNG33CP004	30UJA23015	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (Local)	30JNG33CP503	30UJA23015	H	H	SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Temperature Sensor	30JNG33CT001	30UJA11007	H	H	SI	S C/NM	Y (4) Y (5)
Dead Leg Pressurization Valve	30JNG35AA001	30UJA11007	H	H	ES SI	S C/NM	Y (4) Y (5)
RCS Suction Line Pressurization Valve	30JNG35AA002	30UJA11007	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Bypass Iso. Valve	30JNG35AA003	30UJA11007	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Control Iso. Valve	30JNG35AA004	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
LHSI Suction Isolation Valve	30JNG40AA001	34UJH01005	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Rad. Miniflow Line Check Valve	30JNG40AA003	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Tan. Miniflow Line Check Valve	30JNG40AA004	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI 2nd RCPB Isolation Valve	30JNG40AA006	30UJA11028	H	H	ES SI	S C/NM	Y (4) Y (5)
SAHRS-IRWST 1st Isolation Valve	30JNG40AA007	34UJH01006	M	H	ES SI	S C/NM	Y (3) Y (5)
SAHRS-IRWST 2nd Isolation Valve	30JNG40AA008	34UJH01006	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Inside Containment Isolation Valve	30JNG40AA009	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Isolation Valve	30JNG40AA010	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Check Valve	30JNG40AA011	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Cross-Connect Bypass Check Valve	30JNG40AA012	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Outside Cont. Main Iso. Valve	30JNG40AA060	34UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Outside Cont. Bypass Iso. Valve	30JNG40AA061	34UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
LHSI Heat Exchanger Main Control Valve	30JNG40AA102	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger Pre-Valve	30JNG40AA104	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Discharge Line Safety Valve	30JNG40AA192	30UJA11028	H	H	ES SI	S C/NM	Y (4) Y (5)
LHSI Sampling Line Isolation Valve	30JNG40AA601	34UJH05004	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG40AA602	34UJH05005	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Sampling Line Isolation Valve	30JNG40AA603	34UJH05005	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Heat Exchanger	30JNG40AC001	34UJH05005	M	H	ES SI	S C/NM	Y (3) Y (5)
LHSI Pump	30JNG40AP001	34UJH01006	M	H	ES SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (WR)	30JNG40CF001A	34UJH01001	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RHR Flowrate Sensor (NR)	30JNG40CF001B	34UJH01001	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG40CG192B	30UJA11028	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
LHSI HX Main Control Valve Pos. Sensor	30JNG40CG802	34UJH05004	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Sensor	30JNG40CP003	34UJH05006	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Pump Upstream Press. Ind. (Local)	30JNG40CP501	34UJH01006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Press. Ind. (Local)	30JNG40CP502	34UJH01006	M	H	SI	S C/NM	Y (3) Y (5)
LHSI Pump Downstream Temp. Sensor	30JNG40CT001	34UJH05004	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
RHR Temperature Sensor	30JNG40CT002	34UJH01002	M	H	ES ~~PAM~~ SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Isolation Valve	30JNG42AA001	34UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
LHSI Hot Leg Injection Check Valve	30JNG42AA002	34UJH05004	M	H	ES SI	S C/NM	Y (3) Y (5)
Hot Leg Injection Flowrate Sensor	30JNG42CF001	34UJH01001	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Accumulator Filling Line Isolation Valve	30JNG43AA002	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Filling Line Check Valve	30JNG43AA003	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS 1st RCPB Isolation Valve	30JNG43AA005	30UJA11009	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Iso. Valve	30JNG43AA006	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
Accum.-Nitrogen Distribution Check Valve	30JNG43AA007	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Isolation Valve	30JNG43AA008	30UJA11028	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Accumulator Check Valve	30JNG43AA009	30UJA11028	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Control Valve	30JNG43AA101	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Safety Valve	30JNG43AA197	30UJA23016	H	H	ES SI	S C/NM	Y (4) Y (5)
Accum. Depressurization Isolation Valve	30JNG43AA502	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
Accum. Sampling Line Isolation Valve	30JNG43AA602	30UJA15016	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator	30JNG43BB001	30UJA15016	H	H	ES SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 1 (NR)	30JNG43CL001	30UJA18016	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor 2 (NR)	30JNG43CL002	30UJA18016	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (WR)	30JNG43CL003	30UJA15016	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Level Sensor (Local)	30JNG43CL504	30UJA15016	H	H	SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 1 (NR)	30JNG43CP001	30UJA23016	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor 2 (NR)	30JNG43CP002	30UJA23016	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Pressure Sensor	30JNG43CP003	30UJA07015	H	H	SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 48 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Accumulator Pressure Sensor (WR)	30JNG43CP004	30UJA23016	H	H	ES ~~PAM~~ SI	S C/NM	Y (4) Y (5)
Accumulator Pressure Sensor (Local)	30JNG43CP503	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
Cold Leg Injection Temperature Sensor	30JNG43CT001	30UJA11008	H	H	SI	S C/NM	Y (4) Y (5)
Dead Leg Pressurization Valve	30JNG45AA001	30UJA11008	H	H 16-212	ES SI	S C/NM	Y (4) Y (5)
RCS Suction Line Pressurization Valve	30JNG45AA002	30UJA11008	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Bypass Iso. Valve	30JNG45AA003	30UJA11008	H	H	ES SI	S C/NM	Y (4) Y (5)
Dead Leg Pressure Control Iso. Valve	30JNG45AA004	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Component Cooling Water System (CCWS)							
CK-V KAA10 AC001 OUTLET	30KAA10AA004	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
V DNSTR KAA10 AC001	30KAA10AA005	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
QCL-V KAA10 TO COM1B	30KAA10AA006	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V DNSTR KAA10 AC002	30KAA10AA007	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V UPSTR KAA10 AC002	30KAA10AA008	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
QCL-V COM1B TO KAA10	30KAA10AA010	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V SUR TANK TO PP10	30KAA10AA011	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V UPSTR KAA10 AT001	30KAA10AA015	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V DNSTR KAA10 AP001	30KAA10AA018	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V MIN FLOW KAA10 AP001	30KAA10AA022	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
DWDS SUP ISOL KAA10	30KAA10AA027	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
V HYDRAZINE SUPPLY KAA10	30KAA10AA028	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
V RADN MON TO KAA10	30KAA10AA029	31UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
V KAA10 TO RADN MON	30KAA10AA030	31UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
QCL-V COM1A TO KAA10	30KAA10AA032	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
QCL-V KAA10 TO COM1A	30KAA10AA033	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
Tr 1 SUR Tk Lvl 2 Upper Isol	30KAA10AA034	31UJK31027	M	M	ES SI	S C/NM	Y (5)
Tr 1 SUR Tk Lvl 1 Upper Isol	30KAA10AA035	31UJK31026	M	M	ES SI	S C/NM	Y (5)
Tr 1 SUR Tk Lvl 1 Lwr Isol	30KAA10AA036	31UJK31026	M	M	ES SI	S C/NM	Y (5)
Tr 1 SUR Tk Lvl 2 Lwr Isol	30KAA10AA037	31UJK31027	M	M	ES SI	S C/NM	Y (5)
BYP-V KAA10AC001	30KAA10AA112	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
FAJ-V MFL KAA PP1	30KAA10AA123	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
FAJ-V KAA10 AC002 LN	30KAA10AA140	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
RL-V CCW PP1 MTR CLR	30KAA10AA191	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V P KAA10 CP274	30KAA10AA301	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V P KAA10 CP274	30KAA10AA302	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V P KAA10 CP578	30KAA10AA303	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAA10 CF570	30KAA10AA304	31UJH01026	M	H	ES SI	S C/NM	Y (3) Y (5)

Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
F M MCP3	30KAB30CF084	30UJA18006	H	H	SI	S C/NM	Y (4) Y (5)
F DNR BRG MCP3	30KAB30CF086	30UJA18006	H	H	SI	S C/NM	Y (4) Y (5)
F THML BARR3	30KAB30CF088	30UJA11015	H	H	SI	S C/NM	Y (4) Y (5)
F UPR BRG MCP4	30KAB30CF092	30UJA23009	H	H	SI	S C/NM	Y (4) Y (5)
F M MCP4	30KAB30CF094	30UJA18009	H	H	SI	S C/NM	Y (4) Y (5)
F DNR BRG MCP4	30KAB30CF096	30UJA18009	H	H	SI	S C/NM	Y (4) Y (5)
F THML BARR4	30KAB30CF098	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
F TEST UPR BRG MCP1	30KAB30CF261	30UJA23002	H	H	SI	S C/NM	Y (4) Y (5)
F TEST M MCP1	30KAB30CF263	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
F TEST DNR BRG MCP1	30KAB30CF265	30UJA18002	H	H	SI	S C/NM	Y (4) Y (5)
F TEST UPR BRG MCP2	30KAB30CF271	30UJA23005	H	H	SI	S C/NM	Y (4) Y (5)
F TEST M MCP2	30KAB30CF273	30UJA18005	H	H	SI	S C/NM	Y (4) Y (5)
F TEST DNR BRG MCP2	30KAB30CF275	30UJA18005	H	H	SI	S C/NM	Y (4) Y (5)
F TEST UPR BRG MCP3	30KAB30CF281	30UJA23006	H	H	SI	S C/NM	Y (4) Y (5)
F TEST M MCP3	30KAB30CF283	30UJA18006	H	H	SI	S C/NM	Y (4) Y (5)
F TEST DNR BRG MCP3	30KAB30CF285	30UJA18006	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR MCP1	30KAB30CT060	30UJA18013	H	H	SI	S C/NM	Y (4) Y (5)
T THML BARR 1	30KAB30CT061	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR MCP2	30KAB30CT070	30UJA18014	H	H	SI	S C/NM	Y (4) Y (5)
T THML BARR 2	30KAB30CT071	30UJA11014	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR MCP3	30KAB30CT080	30UJA18015	H	H	SI	S C/NM	Y (4) Y (5)
T THML BARR 3	30KAB30CT081	30UJA11015	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR MCP4	30KAB30CT090	30UJA18016	H	H	SI	S C/NM	Y (4) Y (5)
T THML BARR 4	30KAB30CT091	30UJA15009	H	H	SI	S C/NM	Y (4) Y (5)
CIV *KLA/KT* USERS	30KAB40AA001	31UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CIV CK-V COM 1b NC	30KAB40AA002	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
CIV *KLA/KT* USERS	30KAB40AA006	31UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CIV *KLA/KT* USERS	30KAB40AA012	30UJA11014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
V UPSTR KTA10 AC001	30KAB40AA023	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KTA10 AC001	30KAB40AA025	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
V UPSTR KLA61 AC001	30KAB40AA026	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KLA61 AC001	30KAB40AA027	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)
V UPSTR KLA61 AC003	30KAB40AA028	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KLA61 AC003	30KAB40AA029	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)
V UPSTR KLA63 AC001	30KAB40AA030	30UJA23016	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KLA63 AC001	30KAB40AA031	30UJA23016	H	H	ES SI	S C/NM	Y (4) Y (5)
V UPSTR KLA63 AC003	30KAB40AA032	30UJA23016	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KLA63 AC003	30KAB40AA033	30UJA23016	H	H	ES SI	S C/NM	Y (4) Y (5)
RL-V RBVS CLR KLA61 AC001	30KAB40AA191	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 71 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
T DNSTR KLA CL1	30KAB40CT264	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR KLA CL2	30KAB40CT265	30UJA23013	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR KLA CL3	30KAB40CT266	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR KLA CL4	30KAB40CT267	30UJA23016	H	H	SI	S C/NM	Y (4) Y (5)
V 1 UPSTR *UKA/UKS*	30KAB50AA001	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V DNSTR *UKA/UKS*	30KAB50AA004	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V 2 UPSTR *UKA/UKS*	30KAB50AA006	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
CK-V RTEN COM 2B NC	30KAB50AA008	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAB50 CF050	30KAB50AA303	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAB50 CF050	30KAB50AA304	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAB50 CF054	30KAB50AA319	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAB50 CF054	30KAB50AA320	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
D-V40 SUP COM2B	30KAB50AA401	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
D-V40 RETN COM2B	30KAB50AA402	34UJH10004	M	H	SI	S C/NM	Y (3) Y (5)
D-V40 RETN COM2B	30KAB50AA403	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V-V40 RETN COM2B	30KAB50AA501	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V-V40 SUP COM2B	30KAB50AA502	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
F UPSTR NC COM2B	30KAB50CF050	34UJH10004	M	H	SI	S C/NM	Y (3) Y (5)
F DNSTR NC COM2B	30KAB50CF054	34UJH10004	M	H	SI	S C/NM	Y (3) Y (5)
CIV *KBA*, RCP 1 & 2	30KAB60AA013	31UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
ICI CK-V COM 1B	30KAB60AA014	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
V UPSTR KBA11 AC001	30KAB60AA015	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KBA11 AC001	30KAB60AA017	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
CIV *KBA*, RCP 1 & 2	30KAB60AA018	30UJA11013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CIV *KBA*, RCP 1 & 2	30KAB60AA019	31UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
C-V KBA11 AC001	30KAB60AA116	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
RL-V CVCS HP CLR KBA11AC001	30KAB60AA191	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
RL-V CONT PEN JMQ60 BQ108	30KAB60AA196	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB60AA014	30KAB60AA251	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB60AA014	30KAB60AA252	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB60AA018	30KAB60AA255	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB60AA018	30KAB60AA256	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
V F KAB60 CF050	30KAB60AA301	30UJA07016	H	H	ES SI	S C/NM	Y (4) Y (5)
V F KAB60 CF050	30KAB60AA302	30UJA07016	H	H	ES SI	S C/NM	Y (4) Y (5)
V F KAB60 CF081	30KAB60AA303	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAB60 CF081	30KAB60AA304	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
D-V SUP CVCS HP1	30KAB60AA401	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V RETN CVCS HP1	30KAB60AA402	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V RETN COM1B C RB	30KAB60AA403	30UJA11013	H	H	ES SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
D-V SUP COM1B C RB	30KAB60AA405	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V10 SUP COM1B C	30KAB60AA406	30UJA11014	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V10 RETN COM1B C	30KAB60AA407	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V-V10 RETN COM1B C	30KAB60AA501	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
F DNSTR CVCS HP CL1	30KAB60CF050	30UJA07016	H	H	SI	S C/NM	Y (4) Y (5)
F CLASS COM1B	30KAB60CF081	31UJH10004	M	H	SI	S C/NM	Y (3) Y (5)
G ACTY CCWS INLET	30KAB60CR001	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
G ACTY CCWS OUTLET	30KAB60CR002	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR CVCS HP CL1	30KAB60CT082	30UJA07016	H	H	SI	S C/NM	Y (4) Y (5)
CIV *KBA*, RCP 3 & 4	30KAB70AA013	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
ICI CK-V COM 2B	30KAB70AA014	30UJA11015	H	H	ES SI	S C/NM	Y (4) Y (5)
V UPSTR KBA12 AC001	30KAB70AA015	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
V DNSTR KBA12 AC001	30KAB70AA017	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
CIV *KBA*, RCP 3 & 4	30KAB70AA018	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CIV *KBA*, RCP 3 & 4	30KAB70AA019	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
C-V KBA12 AC001	30KAB70AA116	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
RL-V CVCS HP CLR KBA12AC001	30KAB70AA191	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
RL-V CONT PEN JMQ60 BQ408	30KAB70AA194	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB70AA014	30KAB70AA251	30UJA11015	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB70AA014	30KAB70AA252	30UJA11015	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB70AA018	30KAB70AA255	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
TST C-V KAB70AA018	30KAB70AA256	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
V F KAB70 CF050	30KAB70AA301	30UJA07016	H	H	ES SI	S C/NM	Y (4) Y (5)
V F KAB70 CF050	30KAB70AA302	30UJA07016	H	H	ES SI	S C/NM	Y (4) Y (5)
V F KAB70 CF081	30KAB70AA303	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V F KAB70 CF081	30KAB70AA304	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
D-V SUP COM2B C	30KAB70AA401	30UJA11015	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V RETN CVCS HP2	30KAB70AA403	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V RET COM2B C	30KAB70AA404	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
D-V RETN COM1B ORB	30KAB70AA405	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
D-V40 SUP COM1B C	30KAB70AA406	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V-V40 RETN COM1B C	30KAB70AA501	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
V-V40 RETN COM1B IC	30KAB70AA502	34UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)
F DNSTR CVCS HP CL2	30KAB70CF050	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
F CLASS COM2B	30KAB70CF081	34UJH10004	M	H	SI	S C/NM	Y (3) Y (5)
G ACTY CCWS INLET	30KAB70CR001	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
G ACTY CCWS OUTLET	30KAB70CR002	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
T DNSTR CVCS HP CL2	30KAB70CT082	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
V 1 UPSTR *QN* USERS	30KAB80AA015	31UJH10004	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)	
ESW Drain Isolation Vlv	30PEB20AA401	32UJH01020	M	H	SI	S C/NM	Y (3)	Y (5)
ESW Drain Isolation Vlv	30PEB20AA402	32UJH10020	M	H	SI	S C/NM	Y (3)	Y (5)
ESW Drain Isolation Vlv	30PEB20AA403	32UJH01020	M	H	SI	S C/NM	Y (3)	Y (5)
ESW Drain Isolation Vlv	30PEB20AA405	32UJH01020	M	H	SI	S C/NM	Y (3)	Y (5)
ESW Drain Isolation Vlv	30PEB20AA407	32UJH05020	M	H	SI	S C/NM	Y (3)	Y (5)
ESW Drain Isolation Vlv	30PEB20AA408	32UJH01020	M	H	SI	S C/NM	Y (3)	Y (5)
CCW HX Tube Side Vent Vlv	30PEB20AA508	32UJH10020	M	H	SI	S C/NM	Y (3)	Y (5)
CCW HX Tube Side Vent Vlv	30PEB20AA509	32UJH10020	M	H	SI	S C/NM	Y (3)	Y (5)
Orifice Plate	30PEB20BP002	32UJH05020	M	H	SI	S C/NM	Y (3)	Y (5)
CCW HX DP Measurement	30PEB20CP004	32UJH05020	M	H	SI	S		Y (5)
CCW HX Outlet Temp Measurement	30PEB20CT002	32UJH05020	M	H	SI	S		Y (5)
EDG HXs Inlet Isolation Vlv	30PEB21AA001	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG HXs Outlet Isolation Vlv	30PEB21AA002	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG Water Jacket HX Air Release Vlv	30PEB21AA195	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG HX Tube Side Thermal Relief Vlv	30PEB21AA196	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Pressure Measurement Root Vlv	30PEB21AA301	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Pressure Measurement Root Vlv	30PEB21AA302	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Pressure Measurement Root Vlv	30PEB21AA303	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Pressure Measurement Root Vlv	30PEB21AA304	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Drain Isolation Vlv	30PEB21AA401	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Drain Isolation Vlv	30PEB21AA402	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Drain Isolation Vlv	30PEB21AA403	31UBP01001	M	M	SI	S C/NM		Y (5)
ESW Drain Isolation Vlv	30PEB21AA404	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG HX Tube Side Vent Vlv	30PEB21AA501	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG HX Tube Side Vent Vlv	30PEB21AA502	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG HX Tube Side Vent Vlv	30PEB21AA503	31UBP01001	M	M	SI	S C/NM		Y (5)
Orifice Plate	30PEB21BP003	31UBP01001	M	M	SI	S C/NM		Y (5)
EDG HXs Outlet Flow Measurement	30PEB21CF001	31UBP01001	M	M	ES ~~PAM~~ SI	S		Y (5)
ESW Pressure Measurement	30PEB21CP201	31UBP01001	M	M	SI	S		Y (5)
ESW Pressure Measurement	30PEB21CP202	31UBP01001	M	M	SI	S		Y (5)
ESW Pressure Measurement	30PEB21CP203	31UBP01001	M	M	SI	S		Y (5)
ESW Pressure Measurement	30PEB21CP204	31UBP01001	M	M	SI	S		Y (5)
EDG HX Outlet Temp Measurement	30PEB21CT201	31UBP01001	M	M	SI	S		Y (5)
EDG HX Outlet Temp Measurement	30PEB21CT202	31UBP01001	M	M	SI	S		Y (5)
EDG HX Outlet Temp Measurement	30PEB21CT203	31UBP01001	M	M	SI	S		Y (5)
EDG HXs Inlet Isolation Vlv	30PEB22AA001	32UBP01001	M	M	SI	S C/NM		Y (5)
EDG HXs Outlet Isolation Vlv	30PEB22AA002	32UBP01001	M	M	SI	S C/NM		Y (5)
EDG Water Jacket HX Air Release Vlv	30PEB22AA195	32UBP01001	M	M	SI	S C/NM		Y (5)
EDG HX Tube Side Thermal Relief Vlv	30PEB22AA196	32UBP01001	M	M	SI	S C/NM		Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
ESW Pressure Measurement Root Vlv	30PEB22AA301	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB22AA302	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB22AA303	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB22AA304	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB22AA401	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB22AA402	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB22AA403	32UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB22AA404	32UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB22AA501	32UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB22AA502	32UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB22AA503	32UBP01001	M	M	SI	S C/NM	Y (5)
Orifice Plate	30PEB22BP003	32UBP01001	M	M	SI	S C/NM	Y (5)
EDG HXs Outlet Flow Measurement	30PEB22CF001	32UBP01001	M	M	ES ~~PAM~~ SI	S	Y (5)
ESW Pressure Measurement	30PEB22CP201	32UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB22CP202	32UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB22CP203	32UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB22CP204	32UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB22CT201	32UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB22CT202	32UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB22CT203	32UBP01001	M	M	SI	S	Y (5)
EDG HXs Inlet Isolation Vlv	30PEB23AA001	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG HXs Outlet Isolation Vlv	30PEB23AA002	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG Water Jacket HX Air Release Vlv	30PEB23AA195	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Thermal Relief Vlv	30PEB23AA196	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB23AA301	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB23AA302	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB23AA303	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB23AA304	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB23AA401	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB23AA402	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB23AA403	33UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB23AA404	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB23AA501	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB23AA502	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB23AA503	33UBP01001	M	M	SI	S C/NM	Y (5)
Orifice Plate	30PEB23BP003	33UBP01001	M	M	SI	S C/NM	Y (5)
EDG HXs Outlet Flow Measurement	30PEB23CF001	33UBP01001	M	M	ES ~~PAM~~ SI	S	Y (5)
ESW Pressure Measurement	30PEB23CP201	33UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB23CP202	33UBP01001	M	M	SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
ESW Pressure Measurement	30PEB23CP203	33UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB23CP204	33UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB23CT201	33UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB23CT202	33UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB23CT203	33UBP01001	M	M	SI	S	Y (5)
EDG HXs Inlet Isolation Vlv	30PEB24AA001	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG HXs Outlet Isolation Vlv	30PEB24AA002	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG Water Jacket HX Air Release Vlv	30PEB24AA195	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Thermal Relief Vlv	30PEB24AA196	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB24AA301	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB24AA302	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB24AA303	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Pressure Measurement Root Vlv	30PEB24AA304	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB24AA401	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB24AA402	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB24AA403	34UBP01001	M	M	SI	S C/NM	Y (5)
ESW Drain Isolation Vlv	30PEB24AA404	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB24AA501	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB24AA502	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG HX Tube Side Vent Vlv	30PEB24AA503	34UBP01001	M	M	SI	S C/NM	Y (5)
Orifice Plate	30PEB24BP003	34UBP01001	M	M	SI	S C/NM	Y (5)
EDG HXs Outlet Flow Measurement	30PEB24CF001	34UBP01001	M	M	ES ~~PAM~~ SI	S	Y (5)
ESW Pressure Measurement	30PEB24CP201	34UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB24CP202	34UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB24CP203	34UBP01001	M	M	SI	S	Y (5)
ESW Pressure Measurement	30PEB24CP204	34UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB24CT201	34UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB24CT202	34UBP01001	M	M	SI	S	Y (5)
EDG HX Outlet Temp Measurement	30PEB24CT203	34UBP01001	M	M	SI	S	Y (5)
CCW HX Inlet Isolation Vlv	30PEB30AA007	33UJH05020	M	H	SI	S C/NM	Y (3) Y (5)
CCW HX Outlet Isolation Vlv	30PEB30AA009	33UJH05020	M	H	SI	S C/NM	Y (3) Y (5)
CCW HX Tube Side Thermal Relief Vlv	30PEB30AA192	33UJH05020	M	H	SI	S C/NM	Y (3) Y (5)
CCW HX Inlet Side DP Root Vlv	30PEB30AA306	33UJH10020	M	H	SI	S C/NM	Y (3) Y (5)
CCW HX Outlet Side DP Root Vlv	30PEB30AA307	33UJH10020	M	H	SI	S C/NM	Y (3) Y (5)
ESW Drain Isolation Vlv	30PEB30AA401	33UJH01038	M	H	SI	S C/NM	Y (3) Y (5)
ESW Drain Isolation Vlv	30PEB30AA402	33UJH10020	M	H	SI	S C/NM	Y (3) Y (5)
ESW Drain Isolation Vlv	30PEB30AA403	33UJH05020	M	H	SI	S C/NM	Y (3) Y (5)
ESW Drain Isolation Vlv	30PEB30AA405	33UJH05020	M	H	SI	S C/NM	Y (3) Y (5)
ESW Drain Isolation Vlv	30PEB30AA407	33UJH01020	M	H	SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
QKF10BR001 Vent Valve, Div 1	30QKF10AA501	30UFA01038	M	H	SI	S C/NM	Y (3) Y (5)
QKF10BR002 Vent Valve, Div 1	30QKF10AA502	30UFA01038	M	H	SI	S C/NM	Y (3) Y (5)
KLL64AC001 Upstrm Isol Valve, Div 4	30QKF40AA001	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
KLL64AC001 Dnstrm Flow Reg Valve, Div 4	30QKF40AA002	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
KLL64AC001 Dnstrm Isol Valve, Div 4	30QKF40AA003	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF CP501 Root Valve, Div 4	30QKF40AA301	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF CP502 Root Valve, Div 4	30QKF40AA302	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF CP503 Root Valve, Div 4	30QKF40AA303	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF40BR002 Drain Valve #1, Div 4	30QKF40AA401	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF40BR001 Drain Valve, Div 4	30QKF40AA402	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF40BR002 Drain Valve #2, Div 4	30QKF40AA403	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKC40BR026 Drain Valve, Div 4	30QKF40AA404	34UJH01001	M	H	SI	S C/NM	Y (3) Y (5)
QKF40BR001 Vent Valve, Div 4	30QKF40AA501	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
QKF40BR002 Vent Valve, Div 4	30QKF40AA502	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
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Extra Borating System (EBS)							
EBS Tank Iso Valve	30JDH10AA001	30UFA06039	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Suction Iso Valve	30JDH10AA002	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Discharge Iso Valve	30JDH10AA005	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Outside Cont Iso Valve	30JDH10AA006	30UFA10045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EBS Inside Cont Iso Valve	30JDH10AA007	30UJA11013	H	H	ES SI	S	Y (5)
EBS Test Line Iso Valve	30JDH10AA008	30UFA01038	M	H	SI	S C/NM	Y (3) Y (5)
EBS Test Line Iso Manual Valve	30JDH10AA009	30UFA01038	M	H	SI	S C/NM	Y (3) Y (5)
EBS Tank Refill Line Check Valve	30JDH10AA011	30UFA01038	M	H	SI	S	Y (5)
EBS Tank Refill Line Iso Valve	30JDH10AA012	30UFA01038	M	H	SI	S C/NM	Y (3) Y (5)
EBS RCS Iso Valve	30JDH10AA015	30UJA11003	H	H	ES SI	S C/NM	Y (4) Y (5)
EBS Suction Interconnect Valve	30JDH10AA016	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS IRWST Suction Line Iso Valve	30JDH10AA022	30UFA01083	M	H	SI	S C/NM	Y (3) Y (5)
EBS VCT Suction Line Iso Valve	30JDH10AA052	30UFA01083	M	H	SI	S C/NM	Y (3) Y (5)
EBS RCS Hydrotest Line Iso Valve	30JDH10AA053	30UFA01083	M	H	SI	S C/NM	Y (3) Y (5)
EBS Pump Discharge Safety Valve	30JDH10AA191	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump	30JDH10AP001	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank	30JDH10BB001	30UFA06038	M	H	ES SI	S	Y (5)
EBS Flow Meter	30JDH10CF058	30UFA01038	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EBS Tank Iso Valve Position Inst	30JDH10CG001A	30UFA01038	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Test Line Iso Man Vlv Position Inst	30JDH10CG009A	30UFA01038	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Test Line Iso Man Vlv Position Inst	30JDH10CG009B	30UFA01038	M	H	SII	NS-AQ C/NM	Y (3) Y (5)

Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 91 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
EBS Suction Interconnect Vlv Position Inst	30JDH10CG016A	30UFA01038	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Suction Interconnect Vlv Position Inst	30JDH10CG016B	30UFA01038	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Tank Level Inst	30JDH10CL050	30UFA06039	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank Level Inst	30JDH10CL060	30UFA06039	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Suction Pressure Inst	30JDH10CP054	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Discharge Pressure Inst	30JDH10CP056	30UFA01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank Temperature Inst	30JDH10CT052	30UFA06039	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank Temperature Inst	30JDH10CT062	30UFA06039	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS RCS Iso Valve	30JDH20AA015	30UJA11005	H	H	ES SI	S C/NM	Y (4) Y (5)
EBS Thermal Relief Valve	30JDH20AA194	30UJA11013	H	H	SI	S	Y (5)
EBS RCS Iso Valve	30JDH30AA015	30UJA11006	H	H	ES SI	S C/NM	Y (4) Y (5)
EBS Thermal Relief Valve	30JDH30AA194	30UJA11016	H	H	SI	S	Y (5)
EBS Tank Iso Valve	30JDH40AA001	30UFA06087	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Suction Iso Valve	30JDH40AA002	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Discharge Iso Valve	30JDH40AA005	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Outside Cont Iso Valve	30JDH40AA006	30UFA10095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EBS Inside Cont Iso Valve	30JDH40AA007	30UJA11016	H	H	ES SI	S	Y (5)
EBS Test Line Iso Valve	30JDH40AA008	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
EBS Test Line Iso Manual Valve	30JDH40AA009	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
EBS Tank Refill Line Tank Check Valve	30JDH40AA011	30UFA01088	M	H	SI	S	Y (5)
EBS Tank Refill Line Tank Iso Valve	30JDH40AA012	30UFA01088	M	H	SI	S C/NM	Y (3) Y (5)
EBS RCS Iso Valve	30JDH40AA015	30UJA11008	H	H	ES SI	S C/NM	Y (4) Y (5)
EBS Suction Interconnect Valve	30JDH40AA016	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Discharge Safety Valve	30JDH40AA191	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump	30JDH40AP001	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank	30JDH40BB001	30UFA06088	M	H	ES SI	S	Y (5)
EBS Flow Meter	30JDH40CF058	30UFA01088	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EBS Tank Iso Valve Position Inst	30JDH40CG001A	30UFA01088	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Test Line Iso Man Vlv Position Inst	30JDH40CG009A	30UFA01088	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Test Line Iso Man Vlv Position Inst	30JDH40CG009B	30UFA01088	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Suction Interconnect Vlv Position Inst	30JDH40CG016A	30UFA01088	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Suction Interconnect Vlv Position Inst	30JDH40CG016B	30UFA01088	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
EBS Tank Level Inst	30JDH40CL050	30UFA06087	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank Level Inst	30JDH40CL060	30UFA06087	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Suction Pressure Inst	30JDH40CP054	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Pump Discharge Pressure Inst	30JDH40CP056	30UFA01088	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank Temperature Inst	30JDH40CT052	30UFA06087	M	H	ES SI	S C/NM	Y (3) Y (5)
EBS Tank Temperature Inst	30JDH40CT062	30UFA06087	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Feedwater System (MFWS)							
MFW1 FUL LD I-V	30LAB60AA001	31UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW1 I-V	30LAB60AA002	31UJE26001	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
MFW1 CK-V	30LAB60AA003	30UJA29003	H	H	ES SI	S	Y (5)
MFW1 FUL LD C-V	30LAB60AA101	31UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW1 P I-V	30LAB60AA307	31UJE26001	H	H	SI	S	Y (5)
MFW1 FUL LD DP I-V1	30LAB60AA309	31UJE26001	H	H	SI	S	Y (5)
MFW1 FUL LD DP I-V2	30LAB60AA310	31UJE26001	H	H	SI	S	Y (5)
MFW1 D-V1	30LAB60AA401	31UJE26001	H	H	SI	S	Y (5)
MFW1 D-V2	30LAB60AA403	30UJA29003	H	H	SI	S	Y (5)
MFW1 V-V1	30LAB60AA501	31UJE26001	H	H	SI	S	Y (5)
P MFW1 ATP	30LAB60CP407	31UJK26030	M	M	SI	S	Y (5)
T1 MFW1 DNSTR FIX PT	30LAB60CT708	31UJK26030	M	M	SI	S	Y (5)
MFW1 LLD I-V	30LAB64AA001	31UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW1 LLD C-V	30LAB64AA101	31UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW1 VLLD C-V	30LAB64AA102	31UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW1 LLD DP I-V1	30LAB64AA301	31UJE26001	H	H	SI	S	Y (5)
MFW1 LLD DP I-V2	30LAB64AA302	31UJE26001	H	H	SI	S	Y (5)
MFW2 FUL LD I-V	30LAB70AA001	32UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW2 I-V	30LAB70AA002	32UJE26001	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
MFW2 CK-V	30LAB70AA003	30UJA29004	H	H	ES SI	S	Y (5)
MFW2 FUL LD C-V	30LAB70AA101	32UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW2 P I-V	30LAB70AA307	32UJE26001	H	H	SI	S	Y (5)
MFW2 FUL LD DP I-V1	30LAB70AA309	32UJE26001	H	H	SI	S	Y (5)
MFW2 FUL LD DP I-V2	30LAB70AA310	32UJE26001	H	H	SI	S	Y (5)
MFW2 D-V1	30LAB70AA401	32UJE26001	H	H	SI	S	Y (5)
MFW2 D-V2	30LAB70AA403	30UJA29004	H	H	SI	S	Y (5)
MFW2 V-V1	30LAB70AA501	32UJE26001	H	H	SI	S	Y (5)
P MFW2 ATP	30LAB70CP407	32UJE26001	M	M	SI	S	Y (5)
MFW2 LLD I-V	30LAB74AA001	32UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW2 LLD C-V	30LAB74AA101	32UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW2 VLLD C-V	30LAB74AA102	32UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW2 LLD DP I-V1	30LAB74AA301	32UJE26001	H	H	SI	S	Y (5)
MFW2 LLD DP I-V2	30LAB74AA302	32UJE26001	H	H	SI	S	Y (5)
MFW3 FUL LD I-V	30LAB80AA001	33UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW3 I-V	30LAB80AA002	33UJE26001	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
MFW3 CK-V	30LAB80AA003	30UJA29007	H	H	ES SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
MFW3 FUL LD C-V	30LAB80AA101	33UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW3 P I-V	30LAB80AA307	33UJE26001	H	H	SI	S	Y (5)
MFW3 FUL LD DP I-V1	30LAB80AA309	33UJE26001	H	H	SI	S	Y (5)
MFW3 FUL LD DP I-V2	30LAB80AA310	33UJE26001	H	H	SI	S	Y (5)
MFW3 D-V1	30LAB80AA401	33UJE26001	H	H	SI	S	Y (5)
MFW3 D-V2	30LAB80AA403	30UJA29007	H	H	SI	S	Y (5)
MFW3 V-V1	30LAB80AA501	33UJE26001	H	H	SI	S	Y (5)
MFW3 LLD I-V	30LAB84AA001	33UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW3 LLD C-V	30LAB84AA101	33UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW3 VLLD C-V	30LAB84AA102	33UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW3 LLD DP I-V1	30LAB84AA301	33UJE26001	H	H	SI	S	Y (5)
MFW3 LLD DP I-V2	30LAB84AA302	33UJE26001	H	H	SI	S	Y (5)
MFW4 FUL LD I-V	30LAB90AA001	34UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW4 I-V	30LAB90AA002	34UJE26001	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
MFW4 CK-V	30LAB90AA003	30UJA29008	H	H	ES SI	S	Y (5)
MFW4 FUL LD C-V	30LAB90AA101	34UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW4 P I-V	30LAB90AA307	34UJE26001	H	H	SI	S	Y (5)
MFW4 FUL LD DP I-V1	30LAB90AA309	34UJE26001	H	H	SI	S	Y (5)
MFW4 FUL LD DP I-V2	30LAB90AA310	34UJE26001	H	H	SI	S	Y (5)
MFW4 D-V1	30LAB90AA401	34UJE26001	H	H	SI	S	Y (5)
MFW4 D-V2	30LAB90AA403	30UJA29008	H	H	SI	S	Y (5)
MFW4 V-V1	30LAB90AA501	34UJE26001	H	H	SI	S	Y (5)
P MFW4 ATP	30LAB90CP407	34UJK26030	M	M	SI	S	Y (5)
T1 MFW4 DNSTR FIX PT	30LAB90CT708	34UJK26030	M	M	SI	S	Y (5)
MFW4 LLD I-V	30LAB94AA001	34UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW4 LLD C-V	30LAB94AA101	34UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW4 VLLD C-V	30LAB94AA102	34UJE26001	H	H	SI	S C/NM	Y (4) Y (5)
MFW4 LLD DP I-V1	30LAB94AA301	34UJE26001	H	H	SI	S	Y (5)
MFW4 LLD DP I-V2	30LAB94AA302	34UJE26001	H	H	SI	S	Y (5)
Emergency Feedwater System (EFWS)							
EFW Supply Header Vent/Drain Valve	30LAR01AA401	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Supply Header Vent/Drain Valve	30LAR01AA501	31UJH01002	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Supply Header Vent/Drain Valve	30LAR02AA401	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Supply Header Vent/Drain Valve	30LAR03AA401	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Demineralized Water Isolation Valve	30LAR04AA001	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Demineralized Water Check Valve	30LAR04AA002	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
EFW Supply Header Vent/Drain Valve	30LAR04AA401	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Supply Header Vent/Drain Valve	30LAR04AA501	34UJH01002	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Offsite Filling Valve Train 1	30LAR10AA001	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Local Level Gauge Isolation Valve Train 1	30LAR10AA303	31UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR10AA311	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR10AA312	31UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR10AA313	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR10AA314	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR10AA315	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR10AA316	31UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
Demineralized Water Isolation Valve Train 1	30LAR10AA318	31UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Drain Manual Iso. Valve	30LAR10AA401	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Train 1	30LAR10BB001	31UJH05026	M	H	ES SI	S	Y (5)
EFW Instrument Reference Leg Train 1	30LAR10BB301	31UJH10026	M	H	ES SI	S	Y (5)
EFW Instrument Reference Leg Train 1	30LAR10BB302	31UJH10026	M	H	ES SI	S	Y (5)
EFW Pool Level (Narrow Range) Train 1	30LAR10CL002	31UJH10026	M	H	ES SI	S	Y (5)
EFW Pool Local Level Guage Train 1	30LAR10CL501	31UJH05026	M	H	ES SI	S	Y (5)
EFW Storage Pool Temperature Train 1	30LAR10CT001	31UJH05026	M	H	ES SI	S	Y (5)
EFW Pump Suction Manual Iso. Valve Train 1	30LAR11AA001	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Min Flow Check Valve Train 1	30LAR11AA002	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Pump Discharge Manual Iso. Valve Train 1	30LAR11AA004	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Isolation Valve Train 1	30LAR11AA006	31UJH10010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EFW CI Check Valve Train 1	30LAR11AA007	30UJA29003	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Flow Control Valve Train 1	30LAR11AA103	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Level Control Valve Train 1	30LAR11AA105	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA301	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA302	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA303	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA304	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA305	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA306	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA307	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA308	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA309	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 1	30LAR11AA310	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 1	30LAR11AA401	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Hydrazine Injection Valve Train 1	30LAR11AA402	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 1	30LAR11AA403	30UJA29003	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Vent/Drain Valve Train 1	30LAR11AA501	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
EFW Vent/Drain Valve Train 1	30LAR11AA502	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 1	30LAR11AA503	30UJA29003	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Vent/Test Valve train 1	30LAR11AA504	31UJH10010	M	H	ES SI	S C/NM	Y(3) Y(5)
EFW Pump Suction Pressure Train 1	30LAR11CP001	31UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Developed Head Train 1	30LAR11CP002	31UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Discharge Pressure Train 1	30LAR11CP003	31UJH01024	M	H	ES SI	S	Y (5)
EFW SG Level Control Valve dP Train 1	30LAR11CP004	31UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Suction Temperature Train 1	30LAR11CT001	31UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Discharge Temperature Train 1	30LAR11CT004	31UJH10004	M	H	ES SI	S	Y (5)
Full Flow Test Valve Train 1	30LAR12AA001	31UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Supply Header Isolation Valve Train 1	30LAR13AA001	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Discharge Header Isolation Valve Train 1	30LAR14AA001	31UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Offsite Filling Valve Train 2	30LAR20AA001	32UJH10020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Local Level Gauge Isolation Valve Train 2	30LAR20AA303	32UJH05020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR20AA311	32UJH10020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR20AA312	32UJH05020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR20AA313	32UJH10020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR20AA314	32UJH10020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR20AA315	32UJH10020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR20AA316	32UJH05020	M	H	ES SI	S C/NM	Y (3) Y (5)
Demineralized Water Isolation Valve Train 2	30LAR20AA318	32UJH10020	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Drain Manual Iso. Valve	30LAR20AA401	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Train 2	30LAR20BB001	32UJH05020	M	H	ES SI	S	Y (5)
EFW Instrument Reference Leg Train 2	30LAR20BB301	32UJH10020	M	H	ES SI	S	Y (5)
EFW Instrument Reference Leg Train 2	30LAR20BB302	32UJH10020	M	H	ES SI	S	Y (5)
EFW Pool Level (Narrow Range) Train 2	30LAR20CL002	32UJH10020	M	H	ES SI	S	Y (5)
EFW Pool Local Level Guage Train 2	30LAR20CL501	32UJH05020	M	H	ES SI	S	Y (5)
EFW Storage Pool Temperature Train 2	30LAR20CT001	32UJH05020	M	H	ES SI	S	Y (5)
EFW Pump Suction Manual Iso. Valve Train 2	30LAR21AA001	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Min Flow Check Valve Train 2	30LAR21AA002	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Pump Discharge Manual Iso. Valve Train 2	30LAR21AA004	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Isolation Valve Train 2	30LAR21AA006	32UJH10002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EFW CI Check Valve Train 2	30LAR21AA007	30UJA29004	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Flow Control Valve Train 2	30LAR21AA103	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Level Control Valve Train 2	30LAR21AA105	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 2	30LAR21AA301	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 2	30LAR21AA302	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 2	30LAR21AA303	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 2	30LAR21AA304	32UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 97 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
EFW Min Flow Check Valve Train 3	30LAR31AA002	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Pump Discharge Manual Iso. Valve Train 3	30LAR31AA004	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Isolation Valve Train 3	30LAR31AA006	33UJH10002	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EFW CI Check Valve Train 3	30LAR31AA007	30UJA29007	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Flow Control Valve Train 3	30LAR31AA103	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Level Control Valve Train 3	30LAR31AA105	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA301	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA302	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA303	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA304	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA305	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA306	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA307	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA308	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA309	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 3	30LAR31AA310	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 3	30LAR31AA401	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Hydrazine Injection Valve Train 3	30LAR31AA402	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 3	30LAR31AA403	30UJA29007	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Vent/Drain Valve Train 3	30LAR31AA501	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 3	30LAR31AA502	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 3	30LAR31AA503	30UJA29007	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Vent/Test Valve train 1	30LAR31AA504	33UJH10010	M	H	ES SI	S C/NM	Y(3) Y(5)
EFW Pump Suction Pressure Train 3	30LAR31CP001	33UJH01038	M	H	ES SI	S	Y (5)
EFW Pump Developed Head Train 3	30LAR31CP002	33UJH01038	M	H	ES SI	S	Y (5)
EFW Pump Discharge Pressure Train 3	30LAR31CP003	33UJH01038	M	H	ES SI	S	Y (5)
EFW SG Level Control Valve dP Train 3	30LAR31CP004	33UJH01038	M	H	ES SI	S	Y (5)
EFW Pump Suction Temperature Train 3	30LAR31CT001	33UJH01038	M	H	ES SI	S	Y (5)
EFW Pump Discharge Temperature Train 3	30LAR31CT004	33UJH10002	M	H	ES SI	S	Y (5)
Full Flow Test Valve Train 3	30LAR32AA001	33UJH05024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Supply Header Isolation Valve Train 3	30LAR33AA001	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Discharge Header Isolation Valve Tra	30LAR34AA001	33UJH01038	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Offsite Filling Valve Train 4	30LAR40AA001	34UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Local Level Gauge Isolation Valve Train 4	30LAR40AA303	34UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR40AA311	34UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR40AA312	34UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR40AA313	34UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR40AA314	34UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Instrument Isolation Valve	30LAR40AA315	34UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
EFW Storage Pool Instrument Isolation Valve	30LAR40AA316	34UJH05026	M	H	ES SI	S C/NM	Y (3) Y (5)
Demineralized Water Isolation Valve Train 4	30LAR40AA318	34UJH10026	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Drain Manual Iso. Valve	30LAR40AA401	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Storage Pool Train 4	30LAR40BB001	34UJH05026	M	H	ES SI	S	Y (5)
EFW Instrument Reference Leg Train 4	30LAR40BB301	34UJH10026	M	H	ES SI	S	Y (5)
EFW Instrument Reference Leg Train 4	30LAR40BB302	34UJH10026	M	H	ES SI	S	Y (5)
EFW Pool Level (Narrow Range) Train 4	30LAR40CL002	34UJH10026	M	H	ES SI	S	Y (5)
EFW Pool Local Level Guage Train 4	30LAR40CL501	34UJH05026	M	H	ES SI	S	Y (5)
EFW Storage Pool Temperature Train 4	30LAR40CT001	34UJH05026	M	H	ES SI	S	Y (5)
EFW Pump Suction Manual Iso. Valve Train 4	30LAR41AA001	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Min Flow Check Valve Train 4	30LAR41AA002	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Pump Discharge Manual Iso. Valve Train 4	30LAR41AA004	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Isolation Valve Train 4	30LAR41AA006	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
EFW CI Check Valve Train 4	30LAR41AA007	30UJA29008	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Flow Control Valve Train 4	30LAR41AA103	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW SG Level Control Valve Train 4	30LAR41AA105	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA301	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA302	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA303	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA304	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA305	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA306	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA307	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA308	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA309	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Instrument Valve Train 4	30LAR41AA310	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 4	30LAR41AA401	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Hydrazine Injection Valve Train 4	30LAR41AA402	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 4	30LAR41AA403	30UJA29008	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Vent/Drain Valve Train 4	30LAR41AA501	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 4	30LAR41AA502	34UJH01024	M	H	ES SI	S C/NM	Y (3) Y (5)
EFW Vent/Drain Valve Train 4	30LAR41AA503	30UJA29008	H	H	ES SI	S C/NM	Y (4) Y (5)
EFW Vent/Test Valve train 1	30LAR41AA504	34UJH10010	M	H	ES SI	S C/NM	Y(3) Y(5)
EFW Pump Suction Pressure Train 4	30LAR41CP001	34UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Developed Head Train 4	30LAR41CP002	34UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Discharge Pressure Train 4	30LAR41CP003	34UJH01024	M	H	ES SI	S	Y (5)
EFW SG Level Control Valve dP Train 4	30LAR41CP004	34UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Suction Temperature Train 4	30LAR41CT001	34UJH01024	M	H	ES SI	S	Y (5)
EFW Pump Discharge Temperature Train 4	30LAR41CT004	34UJH10004	M	H	ES SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 100 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
In-containment Refueling Water Storage Tank (IRWST)							
IRWST	30JNK00BB001	30UJA04003	H	H	ES SI	S	Y (5)
IRWST 3-Way Isolation Valve	30JNK10AA001	31UJH01005	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
SIS Train 2 Strainer Backflush Isol. Valve	30JNK10AA004	30UJA11013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS Train 2 Strainer Backflush Isol. Valve	30JNK10AA005	30UJA11013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS Train 1 Strainer Backflush Isol. Valve	30JNK10AA006	30UJA11013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS Train 1 Strainer Backflush Isol. Valve	30JNK10AA007	30UJA11013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
1st CVCS Suct. Iso. Valve From IRWST	30JNK10AA009	31UJH01010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
SIS-IRWST Miniflow Line Check Valve	30JNK10AA010	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS-IRWST Miniflow Line Check Valve	30JNK10AA011	30UJA07014	H	H	ES SI	S C/NM	Y (4) Y (5)
2nd CVCS Suct. Isol. Valve From IRWST	30JNK10AA013	31UJH01010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
SIS Sump Str. TRN 1	30JNK10AT001	30UJA04003	H	H	ES SI	S	Y (5)
SIS Sump Str. TRN 2	30JNK10AT002	30UJA04003	H	H	ES SI	S	Y (5)
CVCS Sump Str.	30JNK10AT003	30UJA04003	H	H	SII	NS-AQ	Y (5)
Retaing Basket	30JNK10AT004	30UJA11002	H	H	ES SI	S	Y (5)
Retaing Basket	30JNK10AT005	30UJA11005	H	H	ES SI	S	Y (5)
Trash Rack	30JNK10AT014	30UJA04003	H	H	ES SI	S	Y (5)
Trash Rack	30JNK10AT015	30UJA04003	H	H	ES SI	S	Y (5)
SIS Str. 1&2 Backflush Flow	30JNK10CF501	30UJA11016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
IRWST Level Sensor - Train 1 & 2	30JNK10CL050	30UJA11013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
IRWST Level Sensor - Train 1 & 2	30JNK10CL052	30UJA11014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
SIS Suction Strainer dP Sensor	30JNK10CP001	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
SIS Suction Strainer dP Sensor	30JNK10CP002	30UJA07014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CVCS Suction Strainer dp Sensor	30JNK10CP003	30UJA07014	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS TRN 1 Dbl. Gd. Pipe Press. Sensor	30JNK10CP004	31UJH01004	M	H	ES SI	S C/NM	Y (3) Y (5)
SIS TRN 2 Dbl. Gd. Pipe Press. Sensor	30JNK10CP005	32UJH05010	M	H	ES SI	S C/NM	Y (3) Y (5)
CVCS Suct. Ln. Dbl. Gd. Pipe Press. Ssr	30JNK10CP006	31UJH10001	M	H	ES SI	S C/NM	Y (3) Y (5)
SIS TRN 1 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK10CP504	31UJH05006	M	H	ES SI	S C/NM	Y (3) Y (5)
SIS TRN 2 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK10CP505	32UJH01008	M	H	ES SI	S C/NM	Y (3) Y (5)
CVCS Suct. Ln. Dbl. Gd. Pipe Press. Ssr, loc.	30JNK10CP506	31UJH01010	M	H	ES SI	S C/NM	Y (3) Y (5)
IRWST Temperature Sensor	30JNK10CT054	30UJA04003	H	H	ES SI	S C/NM	Y (4) Y (5)
IRWST Temperature Sensor	30JNK10CT056	30UJA04003	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS Train 3 Strainer Backflush Isol. Valve	30JNK11AA004	30UJA11015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS Train 3 Strainer Backflush Isol. Valve	30JNK11AA005	30UJA11015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS Train 4 Strainer Backflush Isol. Valve	30JNK11AA006	30UJA11016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS Train 4 Strainer Backflush Isol. Valve	30JNK11AA007	30UJA11016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
1st SAHRS Suct. Iso. Valve From IRWST	30JNK11AA009	34UJH01010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 101 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SIS-IRWST Miniflow Line Check Valve	30JNK11AA010	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS-IRWST Miniflow Line Check Valve	30JNK11AA011	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
SIS Sump Str. TRN 4	30JNK11AT001	30UJA04003	H	H	ES SI	S	Y (5)
SIS Sump Str. TRN 3	30JNK11AT002	30UJA04003	H	H	ES SI	S	Y (5)
SAHRS Sump Str.	30JNK11AT003	30UJA04003	H	H	SII	NS-AQ	Y (5)
Retaing Basket	30JNK11AT004	30UJA11006	H	H	ES SI	S	Y (5)
Retaing Basket	30JNK11AT005	30UJA11009	H	H	ES SI	S	Y (5)
Trash Rack	30JNK11AT014	30UJA04003	H	H	ES SI	S	Y (5)
Trash Rack	30JNK11AT015	30UJA04003	H	H	ES SI	S	Y (5)
SIS Str. 3&4 Backflush Flow	30JNK11CF501	30UJA11016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
IRWST Level Sensor - Train 3 & 4	30JNK11CL050	30UJA11015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
IRWST Level Sensor - Train 3 & 4	30JNK11CL052	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
SIS Suction Strainer dP Sensor	30JNK11CP001	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
SIS Suction Strainer dP Sensor	30JNK11CP002	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
SAHRS Suction Strainer dp Sensor	30JNK11CP003	30UJA07015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
SIS TRN 3 Dbl. Gd. Pipe Press. Sensor	30JNK11CP004	33UJH05006	M	H	ES SI	S C/NM	Y (3) Y (5)
SIS TRN 4 Dbl. Gd. Pipe Press. Sensor	30JNK11CP005	34UJH05006	M	H	ES SI	S C/NM	Y (3) Y (5)
SAHRS Suct. Ln. Dbl. Gd. Pipe Press. Ssr	30JNK11CP006	34UJH10001	M	H	ES SI	S C/NM	Y (3) Y (5)
SIS TRN 3 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK11CP504	33UJH01008	M	H	ES SI	S C/NM	Y (3) Y (5)
SIS TRN 4 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK11CP505	34UJH05006	M	H	ES SI	S C/NM	Y (3) Y (5)
SAHRS Suct. Ln. Dbl. Gd. Pipe Pres. Ssr, loc.	30JNK11CP506	34UJH01010	M	H	ES SI	S C/NM	Y (3) Y (5)
IRWST Temperature Sensor	30JNK11CT054	30UJA04003	H	H	ES SI	S C/NM	Y (4) Y (5)
IRWST Temperature Sensor	30JNK11CT056	30UJA04003	H	H	ES SI	S C/NM	Y (4) Y (5)
IRWST 3-Way Isolation Valve	30JNK20AA001	32UJH01008	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
IRWST 3-Way Isolation Valve	30JNK30AA001	33UJH01008	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
IRWST 3-Way Isolation Valve	30JNK40AA001	34UJH01005	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Main Steam System (MSS)							
MSIV TRN1	30LBA10AA002	31UJE34002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
LBA10CP811 I-V	30LBA10AA311	31UJE29002	H	M	SI	S	Y (5)
LBA10CP821 I-V	30LBA10AA321	31UJE29002	H	M	SI	S	Y (5)
LBA10CP831 I-V	30LBA10AA331	31UJE29002	H	M	SI	S	Y (5)
LBA10CP841 I-V	30LBA10AA341	31UJE29002	H	M	SI	S	Y (5)
MS TRN1 F-MEAS I-V 1	30LBA10AA342	30UJA34003	H	H	SI	S	Y (5)
MS TRN1 F-MEAS I-V 2	30LBA10AA343	30UJA34003	H	H	SI	S	Y (5)
MS TRN1 F-MEAS I-V 3	30LBA10AA344	30UJA34003	H	H	SI	S	Y (5)
MSIV TRN1 UPSTR D-V	30LBA10AA441	31UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
MSIV TRN1 DNSTR D-V	30LBA10AA442	31UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN1 2ND D-V	30LBA10AA444	31UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MS TRN1 V-LN 1ST I-V	30LBA10AA501	30UJA34003	H	H	SI	S	Y (5)
MS TRN1 V-LN 2ND I-V	30LBA10AA502	30UJA34003	H	H	SI	S	Y (5)
1ST MSSV TRN1	30LBA11AA191	31UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
2ND MSSV TRN1	30LBA12AA191	31UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
MSRIV TRN 1	30LBA13AA001	31UJE29002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
MSRCV TRN 1	30LBA13AA101	31UJE29002	H	M	ES PAM SI	S C/NM	Y (4) Y (5)
LBA13CP401 I-V	30LBA13AA301	31UJE29002	H	M	SII	NS-AQ	Y (5)
MSRT1 DRN FLOWREST	30LBA13BP701	31UJE29002	H	M	SII	NS-AQ	Y (5)
SILENCER	30LBA13BS001	31UJE39001	M	M	SI	S	Y (5)
MSIV BYP LN I-V TRN1	30LBA14AA001	31UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)
MSIV BYP LN C-V TRN1	30LBA14AA101	31UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN2	30LBA20AA002	32UJE34002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
LBA20CP811 I-V	30LBA20AA311	32UJE29002	H	M	SI	S	Y (5)
LBA20CP821 I-V	30LBA20AA321	32UJE29002	H	M	SI	S	Y (5)
LBA20CP831 I-V	30LBA20AA331	32UJE29002	H	M	SI	S	Y (5)
LBA20CP841 I-V	30LBA20AA341	32UJE29002	H	M	SI	S	Y (5)
MS TRN2 F-MEAS I-V 1	30LBA20AA342	30UJA34004	H	H	SI	S	Y (5)
MS TRN2 F-MEAS I-V 2	30LBA20AA343	30UJA34004	H	H	SI	S	Y (5)
MS TRN2 F-MEAS I-V 3	30LBA20AA344	30UJA34004	H	H	SI	S	Y (5)
MSIV TRN2 UPSTR D-V	30LBA20AA441	32UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)
MSIV TRN2 DNSTR D-V	30LBA20AA442	32UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN2 2ND D-V	30LBA20AA444	32UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MS TRN2 V-LN 1ST I-V	30LBA20AA501	30UJA34004	H	H	SI	S	Y (5)
MS TRN2 V-LN 2ND I-V	30LBA20AA502	30UJA34004	H	H	SI	S	Y (5)
1ST MSSV TRN2	30LBA21AA191	32UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
2ND MSSV TRN2	30LBA22AA191	32UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
MSRIV TRN 2	30LBA23AA001	32UJE29002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
MSRV TRN 2	30LBA23AA101	32UJE29002	H	M	ES PAM SI	S C/NM	Y (4) Y (5)
LBA23CP401 I-V	30LBA23AA301	32UJE29002	H	M	SII	NS-AQ	Y (5)
MSRT2 DRN FLOWREST	30LBA23BP701	32UJE29002	H	M	SII	NS-AQ	Y (5)
SILENCER	30LBA23BS001	30UJE39001	M	M	SI	S	Y (5)
MSIV BYP LN I-V TRN2	30LBA24AA001	32UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)
MSIV BYP LN C-V TRN2	30LBA24AA101	32UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN3	30LBA30AA002	33UJE33002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
LBA30CP811 I-V	30LBA30AA311	33UJE29002	H	M	SI	S	Y (5)
LBA30CP821 I-V	30LBA30AA321	33UJE29002	H	M	SI	S	Y (5)
LBA30CP831 I-V	30LBA30AA331	33UJE29002	H	M	SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
LBA30CP841 I-V	30LBA30AA341	33UJE29002	H	M	SI	S	Y (5)
MS TRN3 F-MEAS I-V 1	30LBA30AA342	30UJA34007	H	H	SI	S	Y (5)
MS TRN3 F-MEAS I-V 2	30LBA30AA343	30UJA34007	H	H	SI	S	Y (5)
MS TRN3 F-MEAS I-V 3	30LBA30AA344	30UJA34007	H	H	SI	S	Y (5)
MSIV TRN3 UPSTR D-V	30LBA30AA441	33UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)
MSIV TRN3 DNSTR D-V	30LBA30AA442	33UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN3 2ND D-V	30LBA30AA444	33UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MS TRN3 V-LN 1ST I-V	30LBA30AA501	30UJA34007	H	H	SI	S	Y (5)
MS TRN3 V-LN 2ND I-V	30LBA30AA502	30UJA34007	H	H	SI	S	Y (5)
1ST MSSV TRN3	30LBA31AA191	33UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
2ND MSSV TRN3	30LBA32AA191	33UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
MSRIV TRN 3	30LBA33AA001	33UJE29002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
MSRV TRN 3	30LBA33AA101	33UJE29002	H	M	ES PAM SI	S C/NM	Y (4) Y (5)
LBA33CP401 I-V	30LBA33AA301	33UJE29002	H	M	SII	NS-AQ	Y (5)
MSRT3 DRN FLOWREST	30LBA33BP701	33UJE29002	H	M	SII	NS-AQ	Y (5)
SILENCER	30LBA33BS001	34UJE39001	M	M	SI	S	Y (5)
MSIV BYP LN I-V TRN3	30LBA34AA001	33UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)
MSIV BYP LN C-V TRN3	30LBA34AA101	33UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN4	30LBA40AA002	34UJE33002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
LBA40CP811 I-V	30LBA40AA311	34UJE29002	H	M	SI	S	Y (5)
LBA40CP821 I-V	30LBA40AA321	34UJE29002	H	M	SI	S	Y (5)
LBA40CP831 I-V	30LBA40AA331	34UJE29002	H	M	SI	S	Y (5)
LBA40CP841 I-V	30LBA40AA341	34UJE29002	H	M	SI	S	Y (5)
MS TR43 F-MEAS I-V 1	30LBA40AA342	30UJA34008	H	H	SI	S	Y (5)
MS TR43 F-MEAS I-V 2	30LBA40AA343	30UJA34008	H	H	SI	S	Y (5)
MS TR43 F-MEAS I-V 3	30LBA40AA344	30UJA34008	H	H	SI	S	Y (5)
MSIV TRN4 UPSTR D-V	30LBA40AA441	34UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)
MSIV TRN4 DNSTR D-V	30LBA40AA442	34UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MSIV TRN4 2ND D-V	30LBA40AA444	34UJE29002	H	M	~~PAM~~ SI	S C/NM	Y (4) Y (5)
MS TRN4 V-LN 1ST I-V	30LBA40AA501	30UJA34008	H	H	SI	S	Y (5)
MS TRN4 V-LN 2ND I-V	30LBA40AA502	30UJA34008	H	H	SI	S	Y (5)
1ST MSSV TRN4	30LBA41AA191	34UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
2ND MSSV TRN4	30LBA42AA191	34UJE29002	H	M	ES ~~PAM~~ SI	S	Y (5)
MSRIV TRN 4	30LBA43AA001	34UJE29002	H	H~~M~~	ES PAM SI	S C/NM	Y (4) Y (5)
MSRV TRN 4	30LBA43AA101	34UJE29002	H	M	ES PAM SI	S C/NM	Y (4) Y (5)
LBA43CP401 I-V	30LBA43AA301	34UJE29002	H	M	SII	NS-AQ	Y (5)
MSRT4 DRN FLOWREST	30LBA43BP701	34UJE29002	H	M	SII	NS-AQ	Y (5)
SILENCER	30LBA43BS001	34UJE39001	M	M	SI	S	Y (5)
MSIV BYP LN I-V TRN4	30LBA44AA001	34UJE29002	H	M	PAM SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
MSIV BYP LN C-V TRN4	30LBA44AA101	34UJE29002	H	M 16-212	~~PAM~~ SI	S C/NM	Y (4) Y (5)
Steam Generator Blowdown System (SGBS)							
SG1 hot leg BD isolation gate valve	30LCQ10AA001	30UJA15003	H	H	ES SI	S C/NM	Y (4) Y (5)
SG1 cold leg BD isolation gate valve	30LCQ10AA002	30UJA15003	H	H	ES SI	S C/NM	Y (4) Y (5)
SG1 common BD isolation gate valve	30LCQ10AA003	30UJA11018	H	H	ES SI	S C/NM	Y (4) Y (5)
SG1 N2 bubbling globe valve isolation	30LCQ10AA010	30UJA15018	H	H	SI	S C/NM	Y (4) Y (5)
N2 Bubbling lift check for SG1	30LCQ10AA011	30UJA15018	H	H	SI	S C/NM	Y (4) Y (5)
SG transfer globe valve b/t SGs 1 & 2	30LCQ10AA012	30UJA23004	H	H	ES SI	S C/NM	Y (4) Y (5)
SG1 BD flowrate control valve	30LCQ10AA104	30UJA11018	H	H	SI	S C/NM	Y (4) Y (5)
SG1 BD flowrate instr. globe valve #1	30LCQ10AA301	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
SG1 BD flowrate instr. globe valve #2	30LCQ10AA302	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
SG 1 manual drain globe valve	30LCQ10AA401	30UJA15003	H	H	SI	S C/NM	Y (4) Y (5)
Manual vent globe valve for filling	30LCQ10AA501	30UJA23004	H	H	SI	S C/NM	Y (4) Y (5)
Manual isolation valve for venting	30LCQ10AA502	30UJA23004	H	H	SI	S C/NM	Y (4) Y (5)
SG1 hot leg sampling globe valve	30LCQ10AA601	30UJA15013	H	H	SI	S C/NM	Y (4) Y (5)
SG 1 cold leg sampling globe valve	30LCQ10AA602	30UJA15013	H	H	SI	S C/NM	Y (4) Y (5)
SG1 BD flow rate sensor	30LCQ10CF001	30UJA11013	H	H	SI	S	Y (5)
position of SG1 BD flowrate ctrl valve	30LCQ10CG104	30UJA11018	H	H	SI	S	Y (5)
SG1 BD temperature sensor	30LCQ10CT001	30UJA11003	H	H	SI	S	Y (5)
SG2 hot leg BD gate isolation valve	30LCQ20AA001	30UJA15004	H	H	ES SI	S C/NM	Y (4) Y (5)
SG2 cold leg BD gate isolation valve	30LCQ20AA002	30UJA15004	H	H	ES SI	S C/NM	Y (4) Y (5)
SG2 common BD gate isolation valve	30LCQ20AA003	30UJA11018	H	H	ES SI	S C/NM	Y (4) Y (5)
SG2 N2 bubbling lift check valve	30LCQ20AA010	30UJA15018	H	H	SI	S	Y (5)
SG2 N2 bubbling globe isolation valve	30LCQ20AA011	30UJA15018	H	H	SI	S C/NM	Y (4) Y (5)
SG2 BD flowrate control valve	30LCQ20AA104	30UJA11018	H	H	SI	S C/NM	Y (4) Y (5)
SG2 BD flow rate instr. globe valve 1	30LCQ20AA301	30UJA11014	H	H	SI	S C/NM	Y (4) Y (5)
SG2 BD flow rate instr. globe valve 2	30LCQ20AA302	30UJA11014	H	H	SI	S C/NM	Y (4) Y (5)
Drain valve for SG #2	30LCQ20AA401	30UJA15004	H	H	SI	S C/NM	Y (4) Y (5)
SG2 hot leg BD sampling globe valve #1	30LCQ20AA601	30UJA15014	H	H	SI	S C/NM	Y (4) Y (5)
SG2 BD flow rate instr. globe valve #2	30LCQ20AA602	30UJA15014	H	H	SI	S C/NM	Y (4) Y (5)
SG2 BD flow rate sensor	30LCQ20CF001	30UJA11005	H	H	SI	S	Y (5)
Position of SG2 BD flowrate ctrl valve	30LCQ20CG104	30UJA11018	H	H	SI	S C/NM	Y (4) Y (5)
SG2 BD temperature sensor	30LCQ20CT001	30UJA11014	H	H	SI	S	Y (5)
SG3 hot leg BD gate isolation valve	30LCQ30AA001	30UJA15007	H	H	ES SI	S C/NM	Y (4) Y (5)
SG3 cold leg BD gate isolation valve	30LCQ30AA002	30UJA15007	H	H	ES SI	S C/NM	Y (4) Y (5)
SG3 common BD gate isolation valve	30LCQ30AA003	30UJA11018	H	H	ES SI	S C/NM	Y (4) Y (5)

Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SGBD flash tank pressure sensor 1	30LCQ50CP001	30UJA07018	H	H	SI	S	Y (5)
SGBD flash tank pressure sensor 2	30LCQ50CP002	30UJA07018	H	H	SI	S	Y (5)
Gate Valve b/t SGBD FT and 1stS.BDcooler	30LCQ51AA001	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
SGBD flashed condensate inside C-IV	30LCQ51AA002	30UJA07015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
SGBD flashed condensate outer C-IV	30LCQ51AA003	34UJH05004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
1stS.SGBD cooler bypass gate valve 1	30LCQ51AA074	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
1stS.SGBD cooler bypass gate valve 2	30LCQ51AA075	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
1stS.SGBD cooler gate isolation valve #1	30LCQ51AA083	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
1stS.SGBD cooler gate isolation valve 2	30LCQ51AA084	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
1stS.SGBD cooler gate isolation valve 3	30LCQ51AA086	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
SGBD containment penetration safety valv	30LCQ51AA198	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
Plug V. for L.T. test of JMK60BQ019	30LCQ51AA301	30UJA07015	H	H	SI	S C/NM	Y (4) Y (5)
Press tap PV 1 for 1stS. SGBD cooler	30LCQ51AA383	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
Press tap PV 2 for 1stS. SGBD cooler	30LCQ51AA384	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
SGBD flash tank drain motor plug valve	30LCQ51AA401	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
SGBD drain plug valve to KT	30LCQ51AA413	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
SGBD containment penetration drain plug	30LCQ51AA414	34UJH05004	M	H	SI	S C/NM	Y (3) Y (5)
KT drain plug valve hose connection	30LCQ51AA434	34UJH05004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KT drain plug valve	30LCQ51AA441	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
KTD drain plug valve from SGBD	30LCQ51AA488	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
KTD vent plug valve from LCQ	30LCQ51AA503	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
KTC vent plug valve from SGBD	30LCQ51AA504	34UJH05004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KTD drain plug valve	30LCQ51AA531	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
KTD vent plug valve from SGBD	30LCQ51AA584	30UJA07018	H	H	SI	S C/NM	Y (4) Y (5)
First Stage (1stS.) SGBD cooler unit #1	30LCQ51AC001	30UJA07018	H	H	SI	S	Y (5)
First Stage (1stS.) SGBD cooler unit #2	30LCQ51AC002	30UJA07018	H	H	SI	S	Y (5)
Flash tank temperature sensor	30LCQ51CT001	30UJA07018	H	H	SI	S	Y (5)
1stS.SGBD cooler outlet temp sensor #1	30LCQ51CT002	30UJA07018	H	H	SI	S	Y (5)
1stS. SGBD cooler outlet temp sensor #2	30LCQ51CT003	30UJA07018	H	H	SI	S	Y (5)
SGBD flash tank drain thermalwell	30LCQ51CT501	30UJA07018	H	H	SI	S	Y (5)
1stS. SGBD cooler outlet thermalwell	30LCQ51CT502	30UJA07018	H	H	SI	S	Y (5)
Thermal well within 1stS. SGBD cooler	30LCQ51CT550	30UJA07018	H	H	SI	S	Y (5)
Flashed steam SGBD inside C-IV	30LCQ52AA001	30UJA34014	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Flashed steam SGBD outlet C-IV	30LCQ52AA002	32UJE34003	M	M	ES PAM SI	S C/NM	Y (5)
Flash tank safety valve	30LCQ52AA191	30UJA11018	H	H	SI	S C/NM	Y (4) Y (5)
L.T. test plug valve 1 for 30JMK60 BQ205	30LCQ52AA302	30UJA34014	H	H	SI	S C/NM	Y (4) Y (5)
L.T. test plug valve 3 for 30JMK60 BQ205	30LCQ52AA305	30UJA34014	H	H	SI	S C/NM	Y (4) Y (5)
KTE drain plug valve from SGBD	30LCQ52AA411	32UJE34003	M	M	SI	S C/NM	Y (5)
SGBD vent plug valve to KTD	30LCQ52AA511	30UJA34014	H	H	SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
#2 HP Cooler Outlet Isolation Valve	30KBA12AA003	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Reducing Station Control Valve	30KBA12AA102	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Flow Transmitter Iso	30KBA12AA301	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Flow Transmitter Iso	30KBA12AA302	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Flow Transmitter Iso	30KBA12AA303	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Flow Transmitter Iso	30KBA12AA304	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Flow Transmitter Iso	30KBA12AA305	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Flow Transmitter Iso	30KBA12AA306	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Pressure Transmitter	30KBA12AA310	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Tube Side Drain Isolation V	30KBA12AA401	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Tube Side Drain Isolation V	30KBA12AA402	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Shell Side Drain Isolation	30KBA12AA404	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Drain Isolation Valve	30KBA12AA405	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Tube Side Drain Isolation V	30KBA12AA406	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Drain Isolation Valve	30KBA12AA407	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 Letdown Line Drain Isolation Valve	30KBA12AA408	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 Letdown Line Drain Isolation Valve	30KBA12AA409	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Drain Isolation Valve	30KBA12AA410	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Shell Side Vent Isolation V	30KBA12AA501	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Tube Side Vent Isolation Va	30KBA12AA502	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Tube Side Vent Isolation Va	30KBA12AA503	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Vent Line Isolation	30KBA12AA504	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Outlet Vent Line Isolation	30KBA12AA505	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
#2 HP Cooler Tube Side Vent Isolation Va	30KBA12AA507	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
#2 High Pressure Cooler	30KBA12AC001	30UJA07026	H	H	SI	S	Y (5)
#2 High Pressure Cooler Tube Side Vent O	30KBA12BP501	30UJA11023	H	H	SI	S	Y (5)
Letdown Line Inside Containment Isolatio	30KBA14AA002	30UJA07016	H	H	ES PAM SI	S C/NM	Y(4) Y (5)
Letdown Line Outside Containment Isolati	30KBA14AA003	30UFA06095	M	H	ES PAM SI	S C/NM	Y(3) Y (5)
LP Letdown Line Isolation Valve	30KBA14AA004	30UFA01095	M	H	SI	S C/NM	Y(3) Y (5)
Letdown to KTA Isolation Valve	30KBA14AA009	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown to KTA Isolation Valve	30KBA14AA011	30UJA07028	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Check Valve	30KBA14AA012	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
LP Reducing Station Control Valve	30KBA14AA106	30UFA10095	M	H	SI	S C/NM	Y(3) Y (5)
Letdown Line (Inside Containment) Relief	30KBA14AA191	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Pressure Transmitter Isolat	30KBA14AA301	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Pressure Transmitter Isolat	30KBA14AA302	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Pressure Transmitter Isolat	30KBA14AA303	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
Relief Valve Inlet Drain Isolation Valve	30KBA14AA401	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
Letdown to KTA Drain Line Isolation Valv	30KBA14AA402	30UJA07028	H	H	SI	S C/NM	Y(4) Y (5)
LP Letdown Line Drain Isolation Valve	30KBA14AA404	30UFA01095	M	H	SI	S C/NM	Y(3) Y (5)
LP Letdown Line Drain Isolation Valve	30KBA14AA405	30UFA01095	M	H	SI	S C/NM	Y(3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Letdown Line Drain Isolation Valve	30KBA14AA408	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Drain Isolation Valve	30KBA14AA409	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown to KTA Drain Line Isolation Valv	30KBA14AA411	30UJA07028	H	H	SI	S C/NM	Y(4) Y (5)
Relief Valve Inlet Drain Isolation Valve	30KBA14AA412	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Vent Isolation Valve	30KBA14AA501	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Relief Valve Inlet Vent Isolation Valve	30KBA14AA502	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
LP Letdown Line Vent Isolation Valve	30KBA14AA503	30UFA10095	M	H	SI	S C/NM	Y(3) Y (5)
Relief Valve Inlet Vent Isolation Valve	30KBA14AA504	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Vent Isolation Valve	30KBA14AA506	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
Letdown Line Vent to KT Isolation Valve	30KBA14AA507	30UJA07029	H	H	SI	S C/NM	Y(4) Y (5)
VCT Outlet Isolation Valve	30KBA21AA001	30UFA06086	M	H	ES ~~PAM~~ SI	S C/NM	Y(3) Y (5)
Letdown to Charging Pump Suction Isolati	30KBA21AA009	30UFA06036	M	H	ES ~~PAM~~ SI	S C/NM	Y(3) Y (5)
Letdown Line Outlet from Gas Separator I	30KBA25AA017	30UFA10082	M	H	ES ~~PAM~~ SI	S C/NM	Y(3) Y (5)
Charging Line Outside Containment Isolat	30KBA34AA002	30UFA06095	M	H	ES PAM SI	S C/NM	Y(3) Y (5)
Charging Line Inside Containment Isolati	30KBA34AA003	30UJA07016	H	H	ES SI	S C/NM	Y(4) Y (5)
3-Way Regenerative Heater Bypass Valve	30KBA34AA007	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Charging to RCS Isolation valve	30KBA34AA012	30UJA11022	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line to RCS Loop 2 Check Valve	30KBA34AA018	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line to RCS Loop 4 Check Valve	30KBA34AA019	30UJA15009	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line to RCS Loop 2 Check Valve	30KBA34AA020	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line to RCS Loop 4 Check Valve	30KBA34AA021	30UJA18009	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Relief Valve	30KBA34AA191	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Regenerative Heater Bypass Line Drain Is	30KBA34AA401	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA402	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line (Inside Containment) Drain	30KBA34AA405	30UJA07016	H	H	ES SI	S C/NM	Y(4) Y (5)
Charging Line (Inside Containment) Drain	30KBA34AA406	30UJA07016	H	H	ES SI	S C/NM	Y(4) Y (5)
Regenerative Heater Bypass Line Drain Is	30KBA34AA407	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line (Inside Containment) Drain	30KBA34AA410	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line (Inside Containment) Drain	30KBA34AA411	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA412	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA413	30UJA11022	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA414	30UJA11022	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA415	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA416	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA417	30UJA15009	H	H	SI	S C/NM	Y(4) Y (5)
Charging Line Drain Isolation Valve	30KBA34AA418	30UJA15009	H	H	SI	S C/NM	Y(4) Y (5)
Regenerative Heater Bypass Line Drain Is	30KBA34AA422	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Boron Concentration Measurement Transmit	30KBA34CQ857A	30UFA01033	M	H	SI	S	Y (5)
Boron Concentration Measurement Transmit	30KBA34CQ857B	30UFA01033	M	H	SI	S	Y (5)
Boron Concentration Measurement Transmit	30KBA34CQ858A	30UFA01033	M	H	SI	S	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Boron Concentration Measurement Transmit	30KBA34CQ858B	30UFA01033	M	H	SI	S	Y (5)
Charging Pump Discharge Temperature Tran	30KBA34CT857A	30UFA01033	M	H	SI	S	Y (5)
Charging Pump Discharge Temperature Tran	30KBA34CT857B	30UFA01033	M	H	SI	S	Y (5)
Charging Pump Discharge Temperature Tran	30KBA34CT858A	30UFA01033	M	H	SI	S	Y (5)
Charging Pump Discharge Temperature Tran	30KBA34CT858B	30UFA01033	M	H	SI	S	Y (5)
Charging to Pressurizer Auxiliary Spray	30KBA35AA001	30UJA11022	H	H	SI	S C/NM	Y(4) Y (5)
Charging to Pressurizer Auxiliary Spray	30KBA35AA002	30UJA15019	H	H	SI	S C/NM	Y(4) Y (5)
3-Way Pressurizer Auxiliary Spray Contro	30KBA35AA101	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Pressurizer Auxiliary Spray Line Drain I	30KBA35AA401	30UJA11023	H	H	SI	S C/NM	Y(4) Y (5)
Pressurizer Auxiliary Spray Line Drain I	30KBA35AA402	30UJA15019	H	H	SI	S C/NM	Y(4) Y (5)
Pressurizer Auxiliary Spray Line Drain I	30KBA35AA403	30UJA15019	H	H	SI	S C/NM	Y(4) Y (5)
Pressurizer Auxiliary Spray Line Drain I	30KBA35AA404	30UJA15019	H	H	SI	S C/NM	Y(4) Y (5)
Pressurizer Auxiliary Spray Line Drain I	30KBA35AA405	30UJA15019	H	H	SI	S C/NM	Y(4) Y (5)
Pressurizer Auxiliary Spray Line Drain I	30KBA35AA406	30UJA15019	H	H	SI	S C/NM	Y(4) Y (5)
JEW							
RCP Seal Water Injection Outside Contain	30JEW01AA005	30UFA06045	M	H	ES PAM SI	S C/NM	Y(3) Y (5)
RCP Seal Water Injection Inside Containm	30JEW01AA006	30UJA07016	H	H	ES SI	S C/NM	Y(4) Y (5)
RCP Seal Water Injection Line Drain Isol	30JEW01AA412	30UJA07016	H	H	ES SI	S C/NM	Y(4) Y (5)
RCP Seal Water Injection Line Drain Isol	30JEW01AA413	30UJA07016	H	H	ES SI	S C/NM	Y(4) Y (5)
RCP Seal Water Injection Line Drain Isol	30JEW01AA414	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Injection Line Drain Isol	30JEW01AA415	30UJA07016	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Injection Control Valv	30JEW11AA111	30UJA15002	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Injection Flow Transmi	30JEW11AA301	30UJA11013	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Injection Flow Transmi	30JEW11AA302	30UJA11013	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Leakoff Bypass Inlet M	30JEW12AA013	30UJA18002	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Leakoff Bypass Outlet	30JEW12AA014	30UJA18002	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Leakoff Manual Isolati	30JEW12AA015	30UJA18002	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Leakoff Flow Transmitt	30JEW12AA303	30UJA18013	H	H	SI	S C/NM	Y(4) Y (5)
#1 RCP Seal Water Leakoff Flow Transmitt	30JEW12AA304	30UJA18013	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Injection Control Valv	30JEW21AA111	30UJA15005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Injection Flow Transmi	30JEW21AA301	30UJA15005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Injection Flow Transmi	30JEW21AA302	30UJA15005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Leakoff Bypass Inlet M	30JEW22AA013	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Leakoff Bypass Outlet	30JEW22AA014	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Leakoff Manual Isolati	30JEW22AA015	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Leakoff Flow Transmitt	30JEW22AA303	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
#2 RCP Seal Water Leakoff Flow Transmitt	30JEW22AA304	30UJA18005	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Injection Control Valv	30JEW31AA111	30UJA15006	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Injection Flow Transmi	30JEW31AA301	30UJA11015	H	H	SI	S C/NM	Y(4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
#3 RCP Seal Water Injection Flow Transmi	30JEW31AA302	30UJA11015	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Leakoff Bypass Inlet M	30JEW32AA013	30UJA18006	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Leakoff Bypass Outlet	30JEW32AA014	30UJA18006	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Leakoff Manual Isolati	30JEW32AA015	30UJA18006	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Leakoff Flow Transmitt	30JEW32AA303	30UJA18006	H	H	SI	S C/NM	Y(4) Y (5)
#3 RCP Seal Water Leakoff Flow Transmitt	30JEW32AA304	30UJA18006	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Injection Control Valv	30JEW41AA111	30UJA15009	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Injection Flow Transmi	30JEW41AA301	30UJA11016	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Injection Flow Transmi	30JEW41AA302	30UJA11016	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Leakoff Bypass Inlet M	30JEW42AA013	30UJA18009	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Leakoff Bypass Outlet	30JEW42AA014	30UJA18009	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Leakoff Manual Isolati	30JEW42AA015	30UJA18009	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Leakoff Flow Transmitt	30JEW42AA303	30UJA18009	H	H	SI	S C/NM	Y(4) Y (5)
#4 RCP Seal Water Leakoff Flow Transmitt	30JEW42AA304	30UJA18009	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Inside Containmen	30JEW50AA001	30UJA07016	H	H	ES PAM SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Outside Containme	30JEW50AA002	30UFA06045	M	H	ES PAM SI	S C/NM	Y(3) Y (5)
RCP Seal Water Leakoff to RC Drain Tk. I	30JEW50AA021	30UJA23002	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Relief Valve	30JEW50AA191	30UJA29003	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Pressure Transmit	30JEW50AA303	30UJA23013	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Line Inside Conta	30JEW50AA407	30UKA06036	M	H	SI	S C/NM	Y(3) Y (5)
RCP Seal Water Leakoff Relief Valve Inle	30JEW50AA503	30UJA29003	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Relief Valve Inle	30JEW50AA504	30UJA29003	H	H	SI	S C/NM	Y(4) Y (5)
RCP Seal Water Leakoff Flow Restrictor	30JEW50BP001	30UJA23013	H	H	SI	S	Y (5)
Auxiliary Systems							
Nuclear Sampling System (NSS)							
RCS HL1 ISO VALVE	30KUA10AA001	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS HL1 MOV ISO VLV (HP BOUNDARY)	30KUA10AA002	30UJA18003	H	H	SI	S C/NM	Y (4) Y (5)
RCS HL1 INNER CONT ISO VLV	30KUA10AA003	30UJA07016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
RCS HL1 OUTER CONT ISO VLV	30KUA10AA004	30UFA06045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RCS HL1 ISO CONT PRESSURE RELIEF VLV	30KUA10AA090	30UJB05003	M	M	SI	S	Y (5)
RCS HL1 INNER CONT ISO RELIEF VLV	30KUA10AA091	30UJB05003	M	M	SI	S	Y (5)
RCS HL1 CONT ISO TEST VLV 1	30KUA10AA092	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS HL1 CONT ISO TEST VLV 2	30KUA10AA093	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS HL1 CONT ISO TEST VLV 3	30KUA10AA094	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS HL1 CONT ISO TEST VLV 4	30KUA10AA095	30UJB05003	M	M	SI	S C/NM	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
RCS HL1 HIGH POINT VENT VLV 1	30KUA10AA501	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS HL1 HIGH POINT VENT VLV 2	30KUA10AA502	30UJB05003	M	M	SI	S C/NM	Y (5)
PRESSURIZER MOV SAMPLE VLV	30KUA20AA001	30UJB05003	M	M	SI	S C/NM	Y (5)
PRESSURIZER INNER ISO CONT VLV	30KUA20AA002	30UJB05003	M	M	ES PAM SI	S C/NM	Y (5)
PRESSURIZER OUTER ISO CONT VLV	30KUA20AA003	30UFA06095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
PRZ SAMPLE RELIEF CKV VLV	30KUA20AA090	30UJB05003	M	M	SI	S	Y (5)
PRZ TEST CKV VLV	30KUA20AA091	30UJB05003	M	M	SI	S	Y (5)
PRZ TEST VLV 1	30KUA20AA092	30UJB05003	M	M	SI	S C/NM	Y (5)
PRZ TEST VLV 2	30KUA20AA093	30UJB05003	M	M	SI	S C/NM	Y (5)
PRZ TEST VLV 3	30KUA20AA094	30UJB05003	M	M	SI	S C/NM	Y (5)
PRZ TEST VLV 4	30KUA20AA095	30UJB05003	M	M	SI	S C/NM	Y (5)
PRZ SAMPLE VENT VLV 1	30KUA20AA501	30UJB05003	M	M	SI	S C/NM	Y (5)
PRZ SAMPLE VENT VLV 2	30KUA20AA502	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 ISO VLV	30KUA30AA001	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 ISO VLV	30KUA30AA002	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 INNER CONT ISO VLV	30KUA30AA003	30UJB05003	M	M	ES PAM SI	S C/NM	Y (5)
RCS CL3 OUTER CONT ISO VLV	30KUA30AA004	30UFA06095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
RCS CL3 TEST CKV	30KUA30AA090	30UJB05003	M	M	SI	S	Y (5)
RCS CL3 ISOLATION CKV	30KUA30AA091	30UJB05003	M	M	SI	S	Y (5)
RCS CL3 TEST ISO VLV 1	30KUA30AA092	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 TEST ISV VLV 2	30KUA30AA093	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 TEST ISO VLV 3	30KUA30AA094	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 TEST ISO VLV 4	30KUA30AA095	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 VENT VLV 1	30KUA30AA501	30UJB05003	M	M	SI	S C/NM	Y (5)
RCS CL3 VENT VLV 2	30KUA30AA502	30UJB05003	M	M	SI	S C/NM	Y (5)
KUB10 CONT ISO INNER VLV	30KUB10AA001	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
KUB10 CONT ISO OUTER VLV	30KUB10AA002	30UFA10095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
KUB CONT ISO TEST CKV	30KUB10AA091	30UJA11016	H	H	SI	S	Y (5)
KUB CONT ISO TEST VLV 1	30KUB10AA092	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
CONT ISO VLV OUTSIDE CONTAINMENT	30KUL51AA002	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CONT ISO VLV OUTSIDE CONTAINMENT	30KUL51AA003	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CONT ISO VLV OUTSIDE CONTAINMENT	30KUL52AA002	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CONT ISO VLV OUTSIDE CONT	30KUL52AA003	34UJH10004	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Sampling Activity Monitoring System (SAMS)							
As a Result of the EQ Program Screening No Components in This System were Identifed for Seismic Qualificaiton.							

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Hydrogen Monitoring System (HCMS)							
BLACK BOX *JMU10*	30JMU10GH001	31UJH10011	M	H	~~PAM~~ SI	S	Y(5)
I-V SAMPLE 1 TRAIN 1	30JMU50AA001	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V SAMPLE 2 TRAIN 1	30JMU50AA002	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V SAMPLE 3 TRAIN 1	30JMU50AA003	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V SAMPLE 4 TRAIN 1	30JMU50AA004	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V SENSOR BYPASS	30JMU50AA010	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V UPSTR SENSORS	30JMU50AA011	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V UPSTR SENSORS	30JMU50AA012	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V VACUUM UNIT	30JMU50AA013	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V VACUUM PP	30JMU50AA014	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V BACKFEED TRAIN 1	30JMU50AA015	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V TEST UNIT	30JMU50AA016	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V TEST GAS	30JMU50AA017	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V	30JMU50AA020	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V PURG N2	30JMU50AA021	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V PURG N2	30JMU50AA022	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V PURG N2	30JMU50AA023	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V PURG N2	30JMU50AA024	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V N2 SUP *QJB*	30JMU50AA031	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
CK-V N2 SUP *QJB*	30JMU50AA032	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V N2 SUP GAS CYL	30JMU50AA034	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V AT BATT P REDU	30JMU50AA035	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V AT BATT P REDU	30JMU50AA036	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V AT BATT P REDU	30JMU50AA037	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
CK-V BACKFEED LINE	30JMU50AA040	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU50AA051	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU50AA052	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU50AA053	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU50AA054	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V SENSOR BYPASS	30JMU50AA060	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V UPSTR SENSORS	30JMU50AA061	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V DNSTR SENSORS	30JMU50AA062	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V VACUUM UNIT	30JMU50AA063	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V BACKFEED LINE	30JMU50AA065	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V TEST UNIT	30JMU50AA066	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V PURG N2	30JMU50AA071	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V PURG N2	30JMU50AA072	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
PIL-V PURG N2	30JMU50AA073	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PIL-V PURG N2	30JMU50AA074	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V N2 SUP	30JMU50AA101	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V N2	30JMU50AA102	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V DNSTR SENSORS	30JMU50AA103	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V N2 SUP SOL-V	30JMU50AA104	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V N2 SUP TEST	30JMU50AA105	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V AT BATT P REDU	30JMU50AA111	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V AT BATT P REDU	30JMU50AA112	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
S-V N2	30JMU50AA191	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
S-V TEST UNIT	30JMU50AA192	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
S-V AT BATT P REDU	30JMU50AA193	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V	30JMU50AA401	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V	30JMU50AA402	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
D-V VACUUM UNIT	30JMU50AA403	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
D-V AT L TEST UNIT	30JMU50AA404	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
V-V AT BATT P REDU	30JMU50AA501	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
V-V AT BATT P REDU	30JMU50AA502	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TRAC HT OUTS CONT	30JMU50AH001	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TRAC HT OUTS CONT	30JMU50AH002	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TRAC HT OUTS CONT	30JMU50AH003	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU50AH004	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU50AH005	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU50AH006	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU50AH007	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
FAN	30JMU50AN001	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
VACUUM PP	30JMU50AP001	34UJH10010	M	H	~~PAM~~ SII	NS-AQ C/NM Y(3)	Y(5)
VACUUM PP	30JMU50AP002	34UJH10010	M	H	~~PAM~~ SII	NS-AQ C/NM Y(3)	Y(5)
VACUUM TANK	30JMU50BB001	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
VACUUM TANK	30JMU50BB002	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TEST VESSEL	30JMU50BB003	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
GAS CYL N2 SUPP	30JMU50BB011	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
GAS CYL N2 SUPP	30JMU50BB012	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU50BZ001	30UJA40001	H	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU50BZ002	30UJA29007	H	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU50BZ003	30UJA18015	H	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU50BZ004	30UJA29004	H	H	~~PAM~~ SII	NS-AQ	Y(5)
PROCESSING UNIT	30JMU50BZ010	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P REDU STATION	30JMU50BZ020	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 130 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
BLACK BOX *JMU50*	30JMU50GH001	34UJH10011	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V SAMPLE 1 TRAIN 2	30JMU51AA001	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V SAMPLE 2 TRAIN 2	30JMU51AA002	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V SAMPLE 3 TRAIN 2	30JMU51AA003	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V SAMPLE 4 TRAIN 2	30JMU51AA004	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V SENSOR BYPASS	30JMU51AA010	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V UPSTR SENSORS	30JMU51AA011	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V UPSTR SENSORS	30JMU51AA012	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V VACUUM UNIT	30JMU51AA013	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V VACUUM PP	30JMU51AA014	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V BACKFEED TRAIN 2	30JMU51AA015	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V TEST UNIT	30JMU51AA016	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V TEST GAS	30JMU51AA017	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
P ADJ-V	30JMU51AA020	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V PURG N2	30JMU51AA021	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V PURG N2	30JMU51AA022	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V PURG N2	30JMU51AA023	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V PURG N2	30JMU51AA024	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V N2 SUP *QJB*	30JMU51AA031	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
CK-V N2 SUP *QJB*	30JMU51AA032	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V N2 SUP GAS CYL	30JMU51AA034	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V AT BATT P REDU	30JMU51AA035	31UJH10011	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V AT BATT P REDU	30JMU51AA036	31UJH10011	M	H	~~PAM~~	SII NS-AQ	Y(5)
I-V AT BATT P REDU	30JMU51AA037	31UJH10011	M	H	~~PAM~~	SII NS-AQ	Y(5)
CK-V BACKFEED LINE	30JMU51AA040	30UJA29014	H	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU51AA051	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU51AA052	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU51AA053	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V SAMP I-V	30JMU51AA054	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V SENSOR BYPASS	30JMU51AA060	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V UPSTR SENSORS	30JMU51AA061	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V DNSTR SENSORS	30JMU51AA062	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V VACUUM UNIT	30JMU51AA063	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V BACKFEED LINE	30JMU51AA065	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V TEST UNIT	30JMU51AA066	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V PURG N2	30JMU51AA071	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V PURG N2	30JMU51AA072	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V PURG N2	30JMU51AA073	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)
PIL-V PURG N2	30JMU51AA074	31UJH10010	M	H	~~PAM~~	SII NS-AQ	Y(5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 131 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
PRD-V N2 SUP	30JMU51AA101	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V N2	30JMU51AA102	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V DNSTR SENSORS	30JMU51AA103	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V N2 SUP SOL-V	30JMU51AA104	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P ADJ-V N2 SUP TEST	30JMU51AA105	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V AT BATT P REDU	30JMU51AA111	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
PRD-V AT BATT P REDU	30JMU51AA112	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
S-V N2	30JMU51AA191	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
S-V TEST UNIT	30JMU51AA192	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
S-V AT BATT P REDU	30JMU51AA193	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V	30JMU51AA401	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
I-V	30JMU51AA402	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
D-V VACUUM UNIT	30JMU51AA403	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
D-V AT L TEST UNIT	30JMU51AA404	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
V-V AT BATT P REDU	30JMU51AA501	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
V-V AT BATT P REDU	30JMU51AA502	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TRAC HT OUTS CONT	30JMU51AH001	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TRAC HT OUTS CONT	30JMU51AH002	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TRAC HT OUTS CONT	30JMU51AH003	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU51AH004	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU51AH005	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU51AH006	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
HEATER CONT PEN	30JMU51AH007	30UJA29014	H	H	~~PAM~~ SII	NS-AQ	Y(5)
FAN	30JMU51AN001	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
VACUUM PP	30JMU51AP001	31UJH10010	M	H	~~PAM~~ SII	NS-AQ C/NM Y(3)	Y(5)
VACUUM PP	30JMU51AP002	31UJH10010	M	H	~~PAM~~ SII	NS-AQ C/NM Y(3)	Y(5)
VACUUM TANK	30JMU51BB001	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
VACUUM TANK	30JMU51BB002	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
TEST VESSEL	30JMU51BB003	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
GAS CYL N2 SUPP	30JMU51BB011	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
GAS CYL N2 SUPP	30JMU51BB012	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU51BZ001	30UJA40001	H	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU51BZ002	30UJA29003	H	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU51BZ003	30UJA18013	H	H	~~PAM~~ SII	NS-AQ	Y(5)
ATM SAMPLER	30JMU51BZ004	30UJA29008	H	H	~~PAM~~ SII	NS-AQ	Y(5)
PROCESSING UNIT	30JMU51BZ010	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
P REDU STATION	30JMU51BZ020	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(5)
BLACK BOX *JMU51*	30JMU51GH001	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(5)
H2 ISOLATION VALVE UJA	30JMU50AA075~~01~~	30UJA11016	H	H	~~PAM~~ SI	S	Y(5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
H2 ISOLATION VALVE UJH	30JMU50AA076~~02~~	34UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU50AA077~~03~~	30UJA11016	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA078~~04~~	34UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU50AA079~~05~~	30UJA11016	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA080~~06~~	34UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU50AA081~~07~~	30UJA11016	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA082~~08~~	34UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA083~~09~~	34UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU50AA084~~10~~	30UJA11016	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU51AA085~~11~~	30UJA11013	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA086~~12~~	31UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU51AA087~~13~~	30UJA11013	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA088~~14~~	31UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU51AA089~~15~~	30UJA11013	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA090~~16~~	31UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU51AA091~~17~~	30UJA11013	H	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA092~~18~~	31UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA093~~19~~	31UJH10011	M	H	PAM SI	S	Y(5)
H2 ISOLATION VALVE UJA	30JMU51AA094~~20~~	30UJA11013	H	H	PAM SI	S	
Radiation Monitoring System (RMS)							
BBX Containment High Range Dose Rate	30JYK00GH007	30UFA29090	M	H	~~PAM~~ SI	S	Y (5)
BBX Containment High Range Dose Rate	30JYK00GH008	30UFA29090	M	H	~~PAM~~ SI	S	Y (5)
BBX Fuel Bldg Ventilation System Gamma	30JYK00GH050	30UFA29045	M	H	ES SI	S	Y (5)
BBX Fuel Bldg Ventilation System Gamma	30JYK00GH051	30UFA29045	M	H	ES SI	S	Y (5)
BBX Main Control Room Vent Duct Gamma	30JYK00GH061	32UJK31018	M	M	SI	S	Y (5)
BBX Main Control Room Vent Duct Gamma	30JYK00GH062	33UJK31018	M	M	SI	S	Y (5)

HVAC Systems

Containment Building Ventilation System (CBVS)								
KLA1 Containment Iso Valve 42 ft FB	30KLA10AA001	30UFA21095	M	H	ES PAM SI	S	C/NM	Y (3) Y (5)
KLA 1 Cont Iso solen glob valv 1	30KLA10AA001A	30UFA21095	M	H	ES SI	S	C/NM	Y (3) Y (5)
KLA1 1 Cont Iso Solen glob valv 2	30KLA10AA001B	30UFA21095	M	H	ES SI	S	C/NM	Y (3) Y (5)
KLA 1 Containment Iso Valve 42 ft RB	30KLA10AA003	30UJA18016	H	H	ES PAM SI	S	C/NM	Y (4) Y (5)
KLA1 1 Cont Iso Solen glob valv 3	30KLA10AA003A	30UJA18016	H	H	ES SI	S	C/NM	Y (4) Y (5)

Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
KLA 5 tech rm Fire Damper Sup	30KLA10AA004	30UJA29015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA1 Staircase Sup Fire Damp	30KLA10AA006	30UJA11020	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 1 Staircase Sup Branch Fire Dmpr	30KLA10AA007	30UJA07013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 1 Staircase south Sup Fire Dmpr	30KLA10AA008	30UJA15010	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 1 Plen Sup Fire Damp	30KLA10AA012	30UFA21065	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Flame Arrestor KLA 1	30KLA10AT007	30UJA18016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 2 Cont Iso Valve 48 ft FB	30KLA20AA001	30UJA23015	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
KLA 2 Cont Iso solen glob Val 48 ft FB	30KLA20AA001A	30UJA23015	H	H	ES SI	S C/NM	Y (4) Y (5)
KLA 2 Cont Iso Valve 48 ft RB	30KLA20AA003	30UFA24045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
KLA 2 Cont Iso solen glob Val 1 48 ft RB	30KLA20AA003A	30UFA24045	M	H	ES SI	S C/NM	Y (3) Y (5)
KLA 2 Cont Iso solen glob Val 2 48 ft RB	30KLA20AA003B	30UFA24045	M	H	ES SI	S C/NM	Y (3) Y (5)
KLA 5 Tech rm Fire damper Exh	30KLA20AA007	30UJA29015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
North Staircase Exh Fire Dmpr	30KLA20AA009	30UJA34011	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
South Staircase Exh Fire Dmpr	30KLA20AA010	30UJA29023	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 2 Fire Damp UFA24045	30KLA20AA011	30UFA24045	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Fire Damp UFA24081	30KLA20AA012	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Fire Damp UFA24095	30KLA20AA013	30UFA24095	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Fire Damp UFA24053	30KLA20AA014	30UFA24053	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Flame Arrestor KLA 2	30KLA20AT002	30UJA23016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA Purge Filtr Tr 1 Man Ch Dmpr	30KLA21AA003	30UFA24085	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Elec Air Heater KLA 2 Tr 1 Filt	30KLA21AH005	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 1 Fan	30KLA21AN001	30UFA24085	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 1 Prefilter	30KLA21AT001	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 1 HEPA Filter	30KLA21AT002	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 1 Iodine Filter	30KLA21AT003	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 1 HEPA Post Filter	30KLA21AT004	30UFA24080	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA Purge Filtr Tr 2 Man Ch Dmpr	30KLA22AA003	30UFA24085	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Elec Air Heater KLA 2 Tr 2 Filt	30KLA22AH005	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 2 Fan	30KLA22AN001	30UFA24085	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 2 Prefilter	30KLA22AT001	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 2 HEPA Filter	30KLA22AT002	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 2 Iodine Filter	30KLA22AT003	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 2 Tr 2 HEPA Post Filter	30KLA22AT004	30UFA24081	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA Plen Sup Motor Bal Dmpr	30KLA30AA001	30UFA21065	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 3 Cont Iso Valv 32 ft FB	30KLA30AA002	30UFA17095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
KLA 3 Cont Iso solen glob valv 1	30KLA30AA002A	30UFA17095	M	H	ES SI	S C/NM	Y (3) Y (5)
KLA 3 Cont Iso Valv 32 ft RB	30KLA30AA003	30UJA18016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
KLA 3 Cont Iso Son Glob Valv 2	30KLA30AA003A	30UJA18016	H	H	ES SI	S C/NM	Y (4) Y (5)
Motor Control Dmpr 1 to FB KLL	30KLA30AA004	30UFA21065	M	H	SII	NS-AQ C/NM	Y (3) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Op Fl Control Damper Sup	30KLA30AA006	30UJA29013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
Op Fl Motorized Control Damper Sup	30KLA30AA007	30UJA29013	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
Motor Control Dmpr 2 to FB KLL	30KLA30AA008	30UFA21065	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 3 Plen Sup Fire Dmpr	30KLA30AA013	30UFA17065	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Fire Dmpr Plen Sup to FB KLL	30KLA30AA014	30UFA17065	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 4 Cont Iso Damp 32 ft RB	30KLA40AA001	30UJA18016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
KLA 4 Cont Iso solen glob val 32 ft RB	30KLA40AA001A	30UJA18016	H	H	ES SI	S C/NM	Y (4) Y (5)
KLA 4 Cont Iso Damp 32 ft FB	30KLA40AA002	30UFA17095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
KLA 4 Cont Iso Solen glob Val 32 ft FB	30KLA40AA002A	30UFA17095	M	H	ES SI	S C/NM	Y (3) Y (5)
KLA 4 Sup Louver Damper 1	30KLA40AA003	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 4 Eq Comp control dmpr	30KLA40AA004	30UJA18016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 4 Eq Comp Iso Dmpr	30KLA40AA005	30UJA18016	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 4 Fire Damper UFA24095	30KLA40AA006	30UFA24095	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 4 Sup Motor Louver Damper	30KLA40AA007	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 4 Sup Louver Damper 2	30KLA40AA008	30UJA34015	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA DP Sens Valve 1 SG3	30KLA60AA701	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valve 1 FB	30KLA60AA702	30UFA10052	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valve 1 SG2	30KLA60AA703	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 2 FB	30KLA60AA704	30UFA13004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA 6 Plenum Sup Chk Dmpr 1	30KLA65AA002	30UJA18026	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 6 Plenum Sup Chk Dmpr 3	30KLA65AA004	30UJA18027	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 6 Rx Pit Suppy Fan 1	30KLA65AN001	30UJA15026	H	H	SI	S C/NM	Y (4) Y (5)
KLA 6 Rx Pit Suppy Fan 3	30KLA65AN002	30UJA15027	H	H	SI	S C/NM	Y (4) Y (5)
KLA 6 Plenum Sup Chk Dmpr 2	30KLA66AA002	30UJA15026	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 6 Plenum Sup Chk Dmpr 4	30KLA66AA004	30UJA15027	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
KLA 6 Rx Pit Supply Fan 2	30KLA66AN001	30UJA15026	H	H	SI	S C/NM	Y (4) Y (5)
KLA 6 Rx Pit Supply Fan 4	30KLA66AN002	30UJA15027	H	H	SI	S C/NM	Y (4) Y (5)
KLA DP Sens Valv 2 SG3	30KLA70AA701	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 3 SG3	30KLA70AA702	33UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 2 FB	30KLA70AA703	30UFA10052	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 3 FB	30KLA70AA704	30UFA10052	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 2 SG2	30KLA70AA706	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 3 SG2	30KLA70AA707	32UJH10002	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 5 FB	30KLA70AA708	30UFA13004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
KLA DP Sens Valv 4 FB	30KLA70AA709	30UFA13004	M	H	SII	NS-AQ C/NM	Y (3) Y (5)
Annulus Ventilation System (AVS)							

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)		EQ Program Designation (Note 5)	
Diesel Hall Area Temperature A - Div 4	30SAD42CT001	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Area Temperature B - Div 4	30SAD42CT002	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Area Temperature C - Div 4	30SAD42CT003	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Area Temperature D - Div 4	30SAD42CT004	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Area Temperature E - Div 4	30SAD42CT005	34UBP01001	M	M		SI	S	1E		Y (5)
Recirc Flow Rate - Div 4	30SAD43CF001	34UBP01001	M	M		SI	S	1E		Y (5)
EDG Control Rm Moisture - Div 1	30SAD43CM001	34UBP01002	M	M		SI	S	1E		Y (5)
Recirc Pre-filter Pressure - Div 4	30SAD43CP501	34UBP01001	M	M		SI	S	1E		Y (5)
Recirc HEPA Filter Pressure - Div 4	30SAD43CP502	34UBP01001	M	M		SI	S	1E		Y (5)
Recirc Supply Temperature - Div 4	30SAD43CT001	34UBP01001	M	M		SI	S	1E		Y (5)
EDG Control Rm Temperature A - Div 4	30SAD43CT002	34UBP01002	M	M		SI	S	1E		Y (5)
EDG Control Rm Temperature B - Div 4	30SAD43CT003	34UBP01002	M	M		SI	S	1E		Y (5)
Recirc Heater Outlet Temperature - Div 4	30SAD43CT004	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Heater/Fan Temp A - Div 4	30SAD44CT001	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Heater/Fan Temp B - Div 4	30SAD44CT002	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Heater/Fan Temp C - Div 4	30SAD44CT003	34UBP01001	M	M		SI	S	1E		Y (5)
Diesel Hall Heater/Fan Temp D - Div 4	30SAD44CT004	34UBP01001	M	M		SI	S	1E		Y (5)
Main Tank Temperature - Div 4	30SAD46CT001	34UBP01003	M	M		SI	S	1E		Y (5)
Containment Isolation Systems										
Fuel Pool Cooling and Purification System (FPCPS)										
FPP TO RB POOL INSIDE CI VALVE	30FAL12AA001	30UJA07016	H	H	ES	PAM SI	S	C/NM	Y (4)	Y (5)
FPP TO RB POOL OUTSIDE CI VALVE	30FAL12AA002	30UFA06045	M	H	ES	PAM SI	S	C/NM	Y (3)	Y (5)
FPP TO RB POOL OUTSIDE CI VALVE	30FAL15AA002	30UFA10045	M	H	ES	PAM SI	S	C/NM	Y (3)	Y (5)
FPP TO RB POOL INSIDE CI CHECK VALVE	30FAL15AA003	30UJA11013	H	H	ES	SI	S	C/NM	Y (4)	Y (5)
FUEL TRANSFER TUBE CI VALVE (OUTER)	30FAL40AA001	30UFA16 023	M	H	ES	SI	S	C/NM	Y (3)	Y (5)
FUEL TRANSFER TUBE CI VALVE (INNER)	30FAL40AA002	30UJA15 021	H	H	ES	SI	S	C/NM	Y (4)	Y (5)
DRAIN/TEST CONNECTION	30FAL15AA406	30UJA11013	H	H	ES	SI	S	C/NM	Y (4)	Y (5)
VENT/TEST CONNECTION	30FAL12AA501	30UFA06045	M	H	ES	SI	S	C/NM	Y(3)	Y (5)
VENT/TEST CONNECTION	30FAL15AA503	30UFA10045	M	H	ES	SI	S	C/NM	Y(3)	Y (5)
DRAIN/TEST CONNECTION	30FAL15AA407	30UJA11013	H	H	ES	SI	S	C/NM	Y(4)	Y(5)
DRAIN/TEST CONNECTION	30FAL10AA404	30UJA11013	H	H	ES	SI	S	C/NM	Y(4)	Y(5)
REACTOR CAVITY ISOLATION VALVE	30FAL10AA001	30UJA11021	H	H		SI	S	C/NM	Y(4)	Y(5)
INTERNALS COMPARTMENT ISOLATION VALVE	30FAL10AA002	30UJA11021	H	H		SI	S	C/NM	Y(4)	Y(5)
ILCO ISOLATION VALVE	30FAL10AA003	30UJA11021	H	H		SI	S	C/NM	Y(4)	Y(5)
RB TRANSFER COMPARTMENT ISOLATION VALVE	30FAL10AA004	30UJA11021	H	H		SI	S	C/NM	Y(4)	Y(5)
RB POOL ISOLATION VALVE	30FAL10AA005	30UJA11021	H	H		SI	S	C/NM	Y(4)	Y(5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 166 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
DRAIN VALVE	30FAL10AA403	30UJA07016	H	H	SI	S C/NM	Y(4) Y(5)
RB POOL SKIMMING PUMP CHECK VALVE	30FAL11AA002	30UJA11021	H	H	SI	S C/NM	Y(4) Y(5)
DRAIN VALVE	30FAL16AA402	30UJA11021	H	H	SI	S C/NM	Y(4) Y(5)
DRAIN VALVE	30FAL16AA403	30UJA11021	H	H	SI	S C/NM	Y(4) Y(5)
RB POOL TO IRWST DRAIN VALVE	30FAL16AA003	30UJA11021	H	H	SI	S C/NM	Y(4) Y(5)
Demineralized Water Distribution System (DWDS)							
DEMIN WATER LLRT CONN VALVE	30GHC74AA251	30UFA21045	M	H	ES SI	S C/NM	Y (3) Y (5)
DEMIN WATER THERMAL RELIEF VALVE	30GHC74AA192	30UFA21046	M	H	ES SI	S C/NM	Y (3) Y (5)
DEMIENALIZED WATER OUTER COTAINMENT ISOL	30GHC74AA001	30UFA21045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
DEMIENALIZED WATER INNER COTAINMENT ISOL	30GHC74AA002	30UJA18013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Leak-Off System (LOS)							
CIDS INSIDE CI VALVE	30JMM10AA006	30UJA23013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CIDS OUTSIDE CI VALVE	30JMM10AA007	30UFA24095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CIDS LLRT Test Valve	30JMM10AA252	30UJA23013	H	H	ES SI	S C/NM	Y (4) Y (5)
CLES CI VALVE: LOCATED INSIDE RB (UJA)	30JMM23AA001	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CLES CI VALVE: LOCATED INSIDE ANNULUS (U	30JMM23AA002	30UJB05002	M	M	ES PAM SI	S C/NM	Y (5)
CLES LLRT Test Valve	30JMM23AA252	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
CLTS INSIDE CI VALVE (NON MOTORIZED)	30JMM30AA001	30UJA29015	H	H	ES SI	S C/NM	Y (4) Y (5)
CLTS OUTSIDE CI VALVE (NON MOTORIZED)	30JMM30AA003	33UJH10002	M	H	ES SI	S	Y (5)
CLTS LLRT Test Valve	30JMM30AA252	30UJA29015	H	H	ES SI	S C/NM	Y (4) Y (5)
Severe Accident Heat Removal System (SAHRS)							
SUCTION LINE FROM IRWST OUTER CI VALVE	30JMQ40AA001	34UJH01010	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
SPRAYING LINE OUTER CI VALVE	30JMQ41AA001	34UJH05007	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
SPRAYING LINE INSIDE CI CHECK VALVE	30JMQ41AA002	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
SPRAYING LINE FROM IRWST LLRT CONN VALVE	30JMQ41AA008	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
ACTIVE RECIRCULATION LINE OUTER CI VALVE	30JMQ42AA001	34UJH05007	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
ACTIVE RECIRCULATION LINE INSIDE CI CHEC	30JMQ42AA002	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
ACTIVE RECIRCULATION LINE LLRT CONN VALVE	30JMQ42AA008	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
BACKFLUSHING LINE OUTER CI VALVE	30JMQ43AA001	34UJH05007	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
BACKFLUSHING LINE INSIDE CI CHECK VALVE	30JMQ43AA002	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
BACKFLUSHING LINE LLRT CONN VALVE	30JMQ43AA008	30UJA07015	H	H	ES SI	S C/NM	Y (4) Y (5)
Passive Flooding Motorized Iso. Valve	30JMQ42AA004	30UJA04005	H	H	ES SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

Sheet 167 of 170

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)			Safety Class (Note 4)		EQ Program Designation (Note 5)		
Passive Flooding Motorized Iso. Valve	30JMQ42AA006	30UJA04006	H	H	ES		SI	S	C/NM		Y (4)	Y (5)
Passive Flooding Isolation Valve	30JMQ42AA003	30UJA04005	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Passive Flooding Isolation Valve	30JMQ42AA005	30UJA04006	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Gaseous Waste Processing System (GWPS)												
Containment Isolation Valve (UFA Side)	30KPL84AA002	30UFA06095	M	H	ES	PAM	SI	S	C/NM	Y (3)		Y (5)
Containment Isolation Valve (UJA side)	30KPL84AA003	30UJA07016	H	H	ES	PAM	SI	S	C/NM		Y (4)	Y (5)
Containment Isolation Valve (UJA side)	30KPL85AA003	30UJA07016	H	H	ES	PAM	SI	S	C/NM		Y (4)	Y (5)
Containment Isolation Valve (UFA side)	30KPL85AA004	30UFA06095	M	H	ES	PAM	SI	S	C/NM	Y (3)		Y (5)
TEST CONNECTION ISOLATION VALVE	30KPL85AA202	30UJA07016	H	H	ES		SI	S	C/NM		Y (4)	Y (5)
Condensate (Inside Containment) System (CS)												
Condensate C I-V	30LCA90AA003	32UJE34003	M	M	ES	PAM	SI	S	C/NM			Y (5)
Condensate containment I-V	30LCA90AA004	30UJA34014	H	H	ES		SI	S	C/NM		Y (4)	Y (5)
Condensate C I-V	30LCA90AA005	30UJA34014	H	H	ES	PAM	SI	S	C/NM		Y (4)	Y (5)
Condensate C I-V	30LCA90AA006	32UJE34003	M	M	ES	PAM	SI	S	C/NM			Y (5)
Condensate BD cooler I-V	30LCA90AA009	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate BD cooler I-V	30LCA90AA015	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate BD cooler I-V	30LCA90AA016	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate BD cooler I-V	30LCA90AA017	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate BD cooler bypass I-V	30LCA90AA030	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate BD cooler bypass I-V	30LCA90AA031	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
BD cooler shell relief valve	30LCA90AA182	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
BD cooler shell relief valve	30LCA90AA184	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
BD cooler bypass relief valve	30LCA90AA186	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate relief valve by BD cooler	30LCA90AA188	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate relief valve by BD cooler	30LCA90AA191	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
CondensateContainmentPenetration relief	30LCA90AA195	30UJA34014	H	H	ES		SI	S	C/NM		Y (4)	Y (5)
condensate BD cooler press instr I-V	30LCA90AA310	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
condensate BD cooler press instr I-V	30LCA90AA320	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
condensate BD cooler press instr I-V	30LCA90AA330	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate drain I-V	30LCA90AA401	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
Condensate drain I-V	30LCA90AA402	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
BD cooler drain valve	30LCA90AA406	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
condensate drain valve	30LCA90AA410	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)
BD cooler vent valve	30LCA90AA501	30UJA07018	H	H			SII	NS-AQ	C/NM		Y (4)	Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
BD cooler vent valve	30LCA90AA502	30UJA07018	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
BD cooler vent valve	30LCA90AA511	30UJA07018	H	H	SII	NS-AQ C/NM	Y (4) Y (5)
Central Gas Distribution (Nitrogen) System (CGDS)							
QJB OUTSIDE CONTAINMENT ISOLATION VALVE	30QJB40AA001	30UFA24045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
QJB INSIDE CONTAINMENT ISOLATION VALVE #	30QJB40AA002	30UJA23013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
QJB OUTSIDE CONTAINMENT ISOLATION VALVE	30QJB40AA003	30UFA10095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
QJB INSIDE CONTAINMENT ISOLATION VALVE #	30QJB40AA004	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Operational Chilled Water System - Nuclear Island (OCWS)							
Outside Cont Isol Valve #1	30QNJ41AA002	30UFA17095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Inside Cont Isol Valve #1	30QNJ41AA003	30UJA18016	H	H	ES SI	S C/NM	Y (4) Y (5)
Inside Cont Isol Valve #2	30QNJ41AA027	30UJA18016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
Outside Cont Isol Valve #2	30QNJ41AA028	30UFA17095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Secondary Sampling (SG Blowdown) System (SECSS)							
BD sampling Containment isolation valve	30QUC11AA001	30UFA10045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
BD sampling C I-V	30QUC11AA011	30UJA11013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC11AA304	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC11AA305	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
BD sampling C I-V	30QUC12AA001	30UFA10045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
BD sampling C I-V	30QUC12AA011	30UJA11013	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC12AA304	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC12AA305	30UJA11013	H	H	SI	S C/NM	Y (4) Y (5)
BD sampling C I-V	30QUC13AA001	30UFA10095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
BD sampling C I-V	30QUC13AA011	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC13AA304	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC13AA305	30UJA11016	H	H	SI	S C/NM	Y (4) Y (5)
BD sampling C I-V	30QUC14AA001	30UFA10095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
BD sampling C I-V	30QUC14AA011	30UJA11016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC14AA304	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)
BD sampling drain valve	30QUC14AA305	30UJA11016	H	H	ES SI	S C/NM	Y (4) Y (5)

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Table 3.10-1 List of Seismically and Dynamically Qualified Mechanical and Electrical Equipment

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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Compressed Air System (CAS)							
COMPRESSED AIR OURTER COTAINMENT ISOLATI	30SCB01AA001	30UFA13054	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
COMPRESSED AIR INNER COTAINMENT ISOLATIO	30SCB01AA002	30UJA15016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
COMPRESSED AIR OURTER COTAINMENT ISOLATI	30SCB02AA001	30UFA13054	M	H	ES SI	S C/NM	Y (3) Y (5)
COMPRESSED AIR INNER COTAINMENT ISOLATIO	30SCB02AA002	30UJA15016	H	H 16-212	ES SI	S C/NM	Y (4) Y (5)
Fire Water Distribution System (FWDS)							
FIRE WATER DISTRIBUTION SYSTEM CI VALVE	30SGB30AA031	30UFA13054	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
FIRE WATER DISTRIBUTION SYSTEM CI VALVE	30SGB30AA032	30UJA15016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
FIRE WATER DISTRIBUTION THERMAL RELIEF VALVE	30SGB30AA191	30UJA15016	H	H	ES SI	S C/NM	Y (4) Y (5)
Nuclear Island Drain & Vent System (NI DVS)							
INNER CONT ISO VLV	30KTA10AA017	30UJA07016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CONT ISO INNER VLV	30KTC10AA005	30UJA07016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
CONT ISO OUTER VLV	30KTC10AA006	30UFA06095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CONT ISO OUTER VLV	30KTC10AA010	30UFA06095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
OUTER CONT ISO VLV FLOOR DRN 2 RB	30KTD10AA015	30UFA06095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
INNER CONT ISO VLV FLR DRN 2 RB	30KTD10AA024	30UJA07016	H	H	ES PAM SI	S C/NM	Y (4) Y (5)
OUTER CONT ISO VLV ANNULUS	30KTD10AA025	30UFA10095	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
CONT ISO OUTER VLV	30KTA10AA018	30UFA06045	M	H	ES PAM SI	S C/NM	Y (3) Y (5)
Containment Penetrations -Piping							

As a Result of the EQ Program Screening No Components in this System were identified for Seismic Qualification. These penetrations are considered part of the Containment Building Inner Shell and are analyzed as part of that structure.

For a List of Components Requiring EQ see Table 3.11-1

NOTES

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
Sheet 1 of 103

Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Fluid Systems							
Reactor Coolant System (RCS)							
RPV							
RPV O-ring Leakoff Vlv #2 Actuator	30JAA10AA004	30UJA15005	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RPV High Pt Vent Vlv #1 Actuator	30JAA10AA501	30UJA18019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RPV High Pt Vent Vlv #2 Actuator	30JAA10AA502	30UJA18019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Post Acc RPV High Pt Vent Vlv #1 Act	30JAA10AA508	30UJA18019	H	H	SI	S 1E EMC	Y (1) Y (5)
Post Acc RPV High Pt Vent Vlv #2 Act	30JAA10AA509	30UJA18019	H	H	SI	S 1E EMC	Y (1) Y (5)
Post Acc RPV High Pt Vent Vlv #3 Act	30JAA10AA510	30UJA18019	H	H	SI	S 1E EMC	Y (1) Y (5)
Post Acc RPV High Pt Vent Vlv #4 Act	30JAA10AA511	30UJA18019	H	H	SI	S 1E EMC	Y (1) Y (5)
Vlv AA503 Position Sensor	30JAA10CG503B	30UJA18019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Vlv AA504 Position Sensor	30JAA10CG504B	30UJA18019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Vlv AA505 Position Sensor	30JAA10CG505B	30UJA18019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RPV Inner O-Ring Press Sensor	30JAA10CP050	30UJA15005	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RPV Inner O-Ring Temp Sensor	30JAA10CT050	30UJA15005	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDMs							
CRDM #1 Operating Coil	30JDA01AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #1 Position Sensor	30JDA01CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #1 Top Position Limit Sensor	30JDA01CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #1 Bottom Position Limit Sensor	30JDA01CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #1 Temperature Sensor	30JDA01CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #2 Operating Coil	30JDA02AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #2 Position Sensor	30JDA02CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #2 Top Position Limit Sensor	30JDA02CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #2 Bottom Position Limit Sensor	30JDA02CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #2 Temperature Sensor	30JDA02CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #3 Operating Coil	30JDA03AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #3 Position Sensor	30JDA03CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #3 Top Position Limit Sensor	30JDA03CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #3 Bottom Position Limit Sensor	30JDA03CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #3 Temperature Sensor	30JDA03CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #4 Operating Coil	30JDA04AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #4 Position Sensor	30JDA04CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #4 Top Position Limit Sensor	30JDA04CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #4 Bottom Position Limit Sensor	30JDA04CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #4 Temperature Sensor	30JDA04CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #5 Operating Coil	30JDA05AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #5 Position Sensor	30JDA05CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #5 Top Position Limit Sensor	30JDA05CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #5 Bottom Position Limit Sensor	30JDA05CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #5 Temperature Sensor	30JDA05CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #6 Operating Coil	30JDA06AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #6 Position Sensor	30JDA06CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #6 Top Position Limit Sensor	30JDA06CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #6 Bottom Position Limit Sensor	30JDA06CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #6 Temperature Sensor	30JDA06CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #7 Operating Coil	30JDA07AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #7 Position Sensor	30JDA07CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #7 Top Position Limit Sensor	30JDA07CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #7 Bottom Position Limit Sensor	30JDA07CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #7 Temperature Sensor	30JDA07CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #8 Operating Coil	30JDA08AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #8 Position Sensor	30JDA08CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #8 Top Position Limit Sensor	30JDA08CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #8 Bottom Position Limit Sensor	30JDA08CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #8 Temperature Sensor	30JDA08CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #9 Operating Coil	30JDA09AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #9 Position Sensor	30JDA09CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #9 Top Position Limit Sensor	30JDA09CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #9 Bottom Position Limit Sensor	30JDA09CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #9 Temperature Sensor	30JDA09CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #10 Operating Coil	30JDA10AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #10 Position Sensor	30JDA10CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #10 Top Position Limit Sensor	30JDA10CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #10 Bottom Position Limit Sensor	30JDA10CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #10 Temperature Sensor	30JDA10CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #11 Operating Coil	30JDA11AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #11 Position Sensor	30JDA11CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #11 Top Position Limit Sensor	30JDA11CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #11 Bottom Position Limit Sensor	30JDA11CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #11 Temperature Sensor	30JDA11CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #12 Operating Coil	30JDA12AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #12 Position Sensor	30JDA12CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #12 Top Position Limit Sensor	30JDA12CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #12 Bottom Position Limit Sensor	30JDA12CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #12 Temperature Sensor	30JDA12CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #13 Operating Coil	30JDA13AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #13 Position Sensor	30JDA13CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #13 Top Position Limit Sensor	30JDA13CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #13 Bottom Position Limit Sensor	30JDA13CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #13 Temperature Sensor	30JDA13CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #14 Operating Coil	30JDA14AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #14 Position Sensor	30JDA14CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #14 Top Position Limit Sensor	30JDA14CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #14 Bottom Position Limit Sensor	30JDA14CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #14 Temperature Sensor	30JDA14CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #15 Operating Coil	30JDA15AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #15 Position Sensor	30JDA15CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #15 Top Position Limit Sensor	30JDA15CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #15 Bottom Position Limit Sensor	30JDA15CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #15 Temperature Sensor	30JDA15CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #16 Operating Coil	30JDA16AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #16 Position Sensor	30JDA16CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #16 Top Position Limit Sensor	30JDA16CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #16 Bottom Position Limit Sensor	30JDA16CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #16 Temperature Sensor	30JDA16CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #17 Operating Coil	30JDA17AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #17 Position Sensor	30JDA17CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #17 Top Position Limit Sensor	30JDA17CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #17 Bottom Position Limit Sensor	30JDA17CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #17 Temperature Sensor	30JDA17CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #18 Operating Coil	30JDA18AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #18 Position Sensor	30JDA18CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #18 Top Position Limit Sensor	30JDA18CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #18 Bottom Position Limit Sensor	30JDA18CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #18 Temperature Sensor	30JDA18CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #19 Operating Coil	30JDA19AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #19 Position Sensor	30JDA19CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #19 Top Position Limit Sensor	30JDA19CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #19 Bottom Position Limit Sensor	30JDA19CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #19 Temperature Sensor	30JDA19CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #20 Operating Coil	30JDA20AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #20 Position Sensor	30JDA20CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #20 Top Position Limit Sensor	30JDA20CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #20 Bottom Position Limit Sensor	30JDA20CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #20 Temperature Sensor	30JDA20CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #21 Operating Coil	30JDA21AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #21 Position Sensor	30JDA21CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #21 Top Position Limit Sensor	30JDA21CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #21 Bottom Position Limit Sensor	30JDA21CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #21 Temperature Sensor	30JDA21CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #22 Operating Coil	30JDA22AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #22 Position Sensor	30JDA22CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #22 Top Position Limit Sensor	30JDA22CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #22 Bottom Position Limit Sensor	30JDA22CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #22 Temperature Sensor	30JDA22CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #26 Operating Coil	30JDA26AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #26 Position Sensor	30JDA26CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #26 Top Position Limit Sensor	30JDA26CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #26 Bottom Position Limit Sensor	30JDA26CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #26 Temperature Sensor	30JDA26CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #27 Operating Coil	30JDA27AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #27 Position Sensor	30JDA27CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #27 Top Position Limit Sensor	30JDA27CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #27 Bottom Position Limit Sensor	30JDA27CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #27 Temperature Sensor	30JDA27CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #28 Operating Coil	30JDA28AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #28 Position Sensor	30JDA28CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #28 Top Position Limit Sensor	30JDA28CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #28 Bottom Position Limit Sensor	30JDA28CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #28 Temperature Sensor	30JDA28CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #29 Operating Coil	30JDA29AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #29 Position Sensor	30JDA29CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #29 Top Position Limit Sensor	30JDA29CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #29 Bottom Position Limit Sensor	30JDA29CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #29 Temperature Sensor	30JDA29CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #30 Operating Coil	30JDA30AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #30 Position Sensor	30JDA30CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #30 Top Position Limit Sensor	30JDA30CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #30 Bottom Position Limit Sensor	30JDA30CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #30 Temperature Sensor	30JDA30CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #31 Operating Coil	30JDA31AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #31 Position Sensor	30JDA31CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #31 Top Position Limit Sensor	30JDA31CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #31 Bottom Position Limit Sensor	30JDA31CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #31 Temperature Sensor	30JDA31CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #32 Operating Coil	30JDA32AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #32 Position Sensor	30JDA32CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #32 Top Position Limit Sensor	30JDA32CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #32 Bottom Position Limit Sensor	30JDA32CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #32 Temperature Sensor	30JDA32CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #33 Operating Coil	30JDA33AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #33 Position Sensor	30JDA33CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #33 Top Position Limit Sensor	30JDA33CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #33 Bottom Position Limit Sensor	30JDA33CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #33 Temperature Sensor	30JDA33CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #34 Operating Coil	30JDA34AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #34 Position Sensor	30JDA34CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #34 Top Position Limit Sensor	30JDA34CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #34 Bottom Position Limit Sensor	30JDA34CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #34 Temperature Sensor	30JDA34CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #35 Operating Coil	30JDA35AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #35 Position Sensor	30JDA35CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #35 Top Position Limit Sensor	30JDA35CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #35 Bottom Position Limit Sensor	30JDA35CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #35 Temperature Sensor	30JDA35CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #36 Operating Coil	30JDA36AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #36 Position Sensor	30JDA36CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #36 Top Position Limit Sensor	30JDA36CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #36 Bottom Position Limit Sensor	30JDA36CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #36 Temperature Sensor	30JDA36CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #37 Operating Coil	30JDA37AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #37 Position Sensor	30JDA37CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #37 Top Position Limit Sensor	30JDA37CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #37 Bottom Position Limit Sensor	30JDA37CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #37 Temperature Sensor	30JDA37CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #38 Operating Coil	30JDA38AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #38 Position Sensor	30JDA38CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #38 Top Position Limit Sensor	30JDA38CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #38 Bottom Position Limit Sensor	30JDA38CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #38 Temperature Sensor	30JDA38CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #39 Operating Coil	30JDA39AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #39 Position Sensor	30JDA39CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #39 Top Position Limit Sensor	30JDA39CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #39 Bottom Position Limit Sensor	30JDA39CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #39 Temperature Sensor	30JDA39CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #40 Operating Coil	30JDA40AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #40 Position Sensor	30JDA40CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #40 Top Position Limit Sensor	30JDA40CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #40 Bottom Position Limit Sensor	30JDA40CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #40 Temperature Sensor	30JDA40CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #41 Operating Coil	30JDA41AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #41 Position Sensor	30JDA41CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #41 Top Position Limit Sensor	30JDA41CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #41 Bottom Position Limit Sensor	30JDA41CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #41 Temperature Sensor	30JDA41CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #42 Operating Coil	30JDA42AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #42 Position Sensor	30JDA42CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #42 Top Position Limit Sensor	30JDA42CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #42 Bottom Position Limit Sensor	30JDA42CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #42 Temperature Sensor	30JDA42CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #43 Operating Coil	30JDA43AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #43 Position Sensor	30JDA43CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #43 Top Position Limit Sensor	30JDA43CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #43 Bottom Position Limit Sensor	30JDA43CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #43 Temperature Sensor	30JDA43CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #44 Operating Coil	30JDA44AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #44 Position Sensor	30JDA44CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #44 Top Position Limit Sensor	30JDA44CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #44 Bottom Position Limit Sensor	30JDA44CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #44 Temperature Sensor	30JDA44CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #45 Operating Coil	30JDA45AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #45 Position Sensor	30JDA45CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #45 Top Position Limit Sensor	30JDA45CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #45 Bottom Position Limit Sensor	30JDA45CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #45 Temperature Sensor	30JDA45CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #46 Operating Coil	30JDA46AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #46 Position Sensor	30JDA46CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #46 Top Position Limit Sensor	30JDA46CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #46 Bottom Position Limit Sensor	30JDA46CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #46 Temperature Sensor	30JDA46CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #47 Operating Coil	30JDA47AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #47 Position Sensor	30JDA47CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #47 Top Position Limit Sensor	30JDA47CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #47 Bottom Position Limit Sensor	30JDA47CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #47 Temperature Sensor	30JDA47CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #51 Operating Coil	30JDA51AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #51 Position Sensor	30JDA51CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #51 Top Position Limit Sensor	30JDA51CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #51 Bottom Position Limit Sensor	30JDA51CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #51 Temperature Sensor	30JDA51CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #52 Operating Coil	30JDA52AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #52 Position Sensor	30JDA52CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #52 Top Position Limit Sensor	30JDA52CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #52 Bottom Position Limit Sensor	30JDA52CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #52 Temperature Sensor	30JDA52CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #53 Operating Coil	30JDA53AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #53 Position Sensor	30JDA53CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #53 Top Position Limit Sensor	30JDA53CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #53 Bottom Position Limit Sensor	30JDA53CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #53 Temperature Sensor	30JDA53CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #54 Operating Coil	30JDA54AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #54 Position Sensor	30JDA54CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #54 Top Position Limit Sensor	30JDA54CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #54 Bottom Position Limit Sensor	30JDA54CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #54 Temperature Sensor	30JDA54CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #55 Operating Coil	30JDA55AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #55 Position Sensor	30JDA55CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #55 Top Position Limit Sensor	30JDA55CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #55 Bottom Position Limit Sensor	30JDA55CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #55 Temperature Sensor	30JDA55CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #56 Operating Coil	30JDA56AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #56 Position Sensor	30JDA56CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #56 Top Position Limit Sensor	30JDA56CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #56 Bottom Position Limit Sensor	30JDA56CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #56 Temperature Sensor	30JDA56CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #57 Operating Coil	30JDA57AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #57 Position Sensor	30JDA57CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #57 Top Position Limit Sensor	30JDA57CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #57 Bottom Position Limit Sensor	30JDA57CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #57 Temperature Sensor	30JDA57CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #58 Operating Coil	30JDA58AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #58 Position Sensor	30JDA58CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #58 Top Position Limit Sensor	30JDA58CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #58 Bottom Position Limit Sensor	30JDA58CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #58 Temperature Sensor	30JDA58CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #59 Operating Coil	30JDA59AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #59 Position Sensor	30JDA59CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #59 Top Position Limit Sensor	30JDA59CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #59 Bottom Position Limit Sensor	30JDA59CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #59 Temperature Sensor	30JDA59CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #60 Operating Coil	30JDA60AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #60 Position Sensor	30JDA60CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #60 Top Position Limit Sensor	30JDA60CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #60 Bottom Position Limit Sensor	30JDA60CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #60 Temperature Sensor	30JDA60CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #61 Operating Coil	30JDA61AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #61 Position Sensor	30JDA61CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #61 Top Position Limit Sensor	30JDA61CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #61 Bottom Position Limit Sensor	30JDA61CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #61 Temperature Sensor	30JDA61CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #62 Operating Coil	30JDA62AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #62 Position Sensor	30JDA62CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #62 Top Position Limit Sensor	30JDA62CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #62 Bottom Position Limit Sensor	30JDA62CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #62 Temperature Sensor	30JDA62CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #63 Operating Coil	30JDA63AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #63 Position Sensor	30JDA63CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #63 Top Position Limit Sensor	30JDA63CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #63 Bottom Position Limit Sensor	30JDA63CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #63 Temperature Sensor	30JDA63CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #64 Operating Coil	30JDA64AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #64 Position Sensor	30JDA64CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #64 Top Position Limit Sensor	30JDA64CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #64 Bottom Position Limit Sensor	30JDA64CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #64 Temperature Sensor	30JDA64CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #65 Operating Coil	30JDA65AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #65 Position Sensor	30JDA65CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #65 Top Position Limit Sensor	30JDA65CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #65 Bottom Position Limit Sensor	30JDA65CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #65 Temperature Sensor	30JDA65CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #66 Operating Coil	30JDA66AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #66 Position Sensor	30JDA66CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #66 Top Position Limit Sensor	30JDA66CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #66 Bottom Position Limit Sensor	30JDA66CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #66 Temperature Sensor	30JDA66CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #67 Operating Coil	30JDA67AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #67 Position Sensor	30JDA67CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #67 Top Position Limit Sensor	30JDA67CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #67 Bottom Position Limit Sensor	30JDA67CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #67 Temperature Sensor	30JDA67CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #68 Operating Coil	30JDA68AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #68 Position Sensor	30JDA68CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #68 Top Position Limit Sensor	30JDA68CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #68 Bottom Position Limit Sensor	30JDA68CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #68 Temperature Sensor	30JDA68CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #69 Operating Coil	30JDA69AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #69 Position Sensor	30JDA69CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #69 Top Position Limit Sensor	30JDA69CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #69 Bottom Position Limit Sensor	30JDA69CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #69 Temperature Sensor	30JDA69CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #70 Operating Coil	30JDA70AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #70 Position Sensor	30JDA70CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #70 Top Position Limit Sensor	30JDA70CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #70 Bottom Position Limit Sensor	30JDA70CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #70 Temperature Sensor	30JDA70CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #71 Operating Coil	30JDA71AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #71 Position Sensor	30JDA71CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #71 Top Position Limit Sensor	30JDA71CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #71 Bottom Position Limit Sensor	30JDA71CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #71 Temperature Sensor	30JDA71CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #72 Operating Coil	30JDA72AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #72 Position Sensor	30JDA72CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #72 Top Position Limit Sensor	30JDA72CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #72 Bottom Position Limit Sensor	30JDA72CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #72 Temperature Sensor	30JDA72CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #76 Operating Coil	30JDA76AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #76 Position Sensor	30JDA76CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #76 Top Position Limit Sensor	30JDA76CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #76 Bottom Position Limit Sensor	30JDA76CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #76 Temperature Sensor	30JDA76CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #77 Operating Coil	30JDA77AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #77 Position Sensor	30JDA77CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #77 Top Position Limit Sensor	30JDA77CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #77 Bottom Position Limit Sensor	30JDA77CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #77 Temperature Sensor	30JDA77CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #78 Operating Coil	30JDA78AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #78 Position Sensor	30JDA78CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #78 Top Position Limit Sensor	30JDA78CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #78 Bottom Position Limit Sensor	30JDA78CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)
CRDM #78 Temperature Sensor	30JDA78CT801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #79 Operating Coil	30JDA79AE	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #79 Position Sensor	30JDA79CG801	30UJA11001	H	H	RT	SI S 1E EMC	Y (1) Y (5)
CRDM #79 Top Position Limit Sensor	30JDA79CG802	30UJA11001	H	H		SII NS-AQ EMC	Y (1) Y (5)
CRDM #79 Bottom Position Limit Sensor	30JDA79CG803	30UJA11001	H	H	~~PAM~~	SII NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #79 Temperature Sensor	30JDA79CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #80 Operating Coil	30JDA80AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #80 Position Sensor	30JDA80CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #80 Top Position Limit Sensor	30JDA80CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #80 Bottom Position Limit Sensor	30JDA80CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #80 Temperature Sensor	30JDA80CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #81 Operating Coil	30JDA81AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #81 Position Sensor	30JDA81CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #81 Top Position Limit Sensor	30JDA81CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #81 Bottom Position Limit Sensor	30JDA81CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #81 Temperature Sensor	30JDA81CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #82 Operating Coil	30JDA82AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #82 Position Sensor	30JDA82CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #82 Top Position Limit Sensor	30JDA82CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #82 Bottom Position Limit Sensor	30JDA82CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #82 Temperature Sensor	30JDA82CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #83 Operating Coil	30JDA83AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #83 Position Sensor	30JDA83CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #83 Top Position Limit Sensor	30JDA83CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #83 Bottom Position Limit Sensor	30JDA83CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #83 Temperature Sensor	30JDA83CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #84 Operating Coil	30JDA84AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #84 Position Sensor	30JDA84CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #84 Top Position Limit Sensor	30JDA84CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #84 Bottom Position Limit Sensor	30JDA84CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #84 Temperature Sensor	30JDA84CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #85 Operating Coil	30JDA85AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #85 Position Sensor	30JDA85CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #85 Top Position Limit Sensor	30JDA85CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #85 Bottom Position Limit Sensor	30JDA85CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #85 Temperature Sensor	30JDA85CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #86 Operating Coil	30JDA86AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #86 Position Sensor	30JDA86CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #86 Top Position Limit Sensor	30JDA86CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #86 Bottom Position Limit Sensor	30JDA86CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #86 Temperature Sensor	30JDA86CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #87 Operating Coil	30JDA87AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #87 Position Sensor	30JDA87CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #87 Top Position Limit Sensor	30JDA87CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #87 Bottom Position Limit Sensor	30JDA87CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #87 Temperature Sensor	30JDA87CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #88 Operating Coil	30JDA88AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #88 Position Sensor	30JDA88CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #88 Top Position Limit Sensor	30JDA88CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #88 Bottom Position Limit Sensor	30JDA88CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #88 Temperature Sensor	30JDA88CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #89 Operating Coil	30JDA89AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #89 Position Sensor	30JDA89CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #89 Top Position Limit Sensor	30JDA89CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #89 Bottom Position Limit Sensor	30JDA89CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #89 Temperature Sensor	30JDA89CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #90 Operating Coil	30JDA90AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #90 Position Sensor	30JDA90CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #90 Top Position Limit Sensor	30JDA90CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #90 Bottom Position Limit Sensor	30JDA90CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #90 Temperature Sensor	30JDA90CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #91 Operating Coil	30JDA91AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #91 Position Sensor	30JDA91CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #91 Top Position Limit Sensor	30JDA91CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #91 Bottom Position Limit Sensor	30JDA91CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #91 Temperature Sensor	30JDA91CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #92 Operating Coil	30JDA92AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #92 Position Sensor	30JDA92CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #92 Top Position Limit Sensor	30JDA92CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #92 Bottom Position Limit Sensor	30JDA92CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #92 Temperature Sensor	30JDA92CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #93 Operating Coil	30JDA93AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #93 Position Sensor	30JDA93CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #93 Top Position Limit Sensor	30JDA93CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #93 Bottom Position Limit Sensor	30JDA93CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #93 Temperature Sensor	30JDA93CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #94 Operating Coil	30JDA94AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #94 Position Sensor	30JDA94CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #94 Top Position Limit Sensor	30JDA94CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #94 Bottom Position Limit Sensor	30JDA94CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #94 Temperature Sensor	30JDA94CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #95 Operating Coil	30JDA95AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #95 Position Sensor	30JDA95CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #95 Top Position Limit Sensor	30JDA95CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #95 Bottom Position Limit Sensor	30JDA95CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #95 Temperature Sensor	30JDA95CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #96 Operating Coil	30JDA96AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #96 Position Sensor	30JDA96CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #96 Top Position Limit Sensor	30JDA96CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #96 Bottom Position Limit Sensor	30JDA96CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #96 Temperature Sensor	30JDA96CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #97 Operating Coil	30JDA97AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #97 Position Sensor	30JDA97CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #97 Top Position Limit Sensor	30JDA97CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #97 Bottom Position Limit Sensor	30JDA97CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #97 Temperature Sensor	30JDA97CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #99 Operating Coil	30JDA99AE	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CRDM #99 Position Sensor	30JDA99CG801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
CRDM #99 Top Position Limit Sensor	30JDA99CG802	30UJA11001	H	H	SII	NS-AQ EMC	Y (1) Y (5)
CRDM #99 Bottom Position Limit Sensor	30JDA99CG803	30UJA11001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
CRDM #99 Temperature Sensor	30JDA99CT801	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Steam Generator, Loop 1							
SG Sample Vlv Actuator Loop 1	30JEA10AA601	30UJA29003	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #1 Loop 1	30JEA10CF030	30UJA34003	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #2 Loop 1	30JEA10CF031	30UJA34003	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #3 Loop 1	30JEA10CF032	30UJA34003	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
SG NR Level Sensor #1 Loop 1	30JEA10CL801	30UJA29003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #2 Loop 1	30JEA10CL802	30UJA29003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #3 Loop 1	30JEA10CL803	30UJA29003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #4 Loop 1	30JEA10CL804	30UJA29003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #1 Loop 1	30JEA10CL809	30UJA15003	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #2 Loop 1	30JEA10CL810	30UJA15003	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #3 Loop 1	30JEA10CL811	30UJA15003	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #4 Loop 1	30JEA10CL812	30UJA15003	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #5 Loop 1	30JEA10CL020	30UJA15003	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Steam Generator, Loop 2							
SG Sample Vlv Actuator Loop 2	30JEA20AA601	30UJA29004	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #1 Loop 2	30JEA20CF030	30UJA34004	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #2 Loop 2	30JEA20CF031	30UJA34004	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #3 Loop 2	30JEA20CF032	30UJA34004	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
SG NR Level Sensor #1 Loop 2	30JEA20CL801	30UJA29004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #2 Loop 2	30JEA20CL802	30UJA29004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #3 Loop 2	30JEA20CL803	30UJA29004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #4 Loop 2	30JEA20CL804	30UJA29004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #1 Loop 2	30JEA20CL809	30UJA15004	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #2 Loop 2	30JEA20CL810	30UJA15004	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #3 Loop 2	30JEA20CL811	30UJA15004	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #4 Loop 2	30JEA20CL812	30UJA15004	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #5 Loop 2	30JEA20CL020	30UJA15004	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Steam Generator, Loop 3							
SG Sample Vlv Actuator Loop 3	30JEA30AA601	30UJA29007	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #1 Loop 3	30JEA30CF030	30UJA34007	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #2 Loop 3	30JEA30CF031	30UJA34007	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #3 Loop 3	30JEA30CF032	30UJA34007	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
SG NR Level Sensor #1 Loop 3	30JEA30CL801	30UJA29007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #2 Loop 3	30JEA30CL802	30UJA29007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #3 Loop 3	30JEA30CL803	30UJA29007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #4 Loop 3	30JEA30CL804	30UJA29007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #1 Loop 3	30JEA30CL809	30UJA15007	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #2 Loop 3	30JEA30CL810	30UJA15007	H	H	PAM SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SG WR Level Sensor #3 Loop 3	30JEA30CL811	30UJA15007	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #4 Loop 3	30JEA30CL812	30UJA15007	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #5 Loop 3	30JEA30CL020	30UJA15007	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Steam Generator, Loop 4							
SG Sample Vlv Actuator Loop 4	30JEA40AA601	30UJA29008	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #1 Loop 4	30JEA40CF030	30UJA34008	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #2 Loop 4	30JEA40CF031	30UJA34008	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Main Steam Flow Sensor #3 Loop 4	30JEA40CF032	30UJA34008	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
SG NR Level Sensor #1 Loop 4	30JEA40CL801	30UJA29008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #2 Loop 4	30JEA40CL802	30UJA29008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #3 Loop 4	30JEA40CL803	30UJA29008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG NR Level Sensor #4 Loop 4	30JEA40CL804	30UJA29008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #1 Loop 4	30JEA40CL809	30UJA15008	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #2 Loop 4	30JEA40CL810	30UJA15008	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #3 Loop 4	30JEA40CL811	30UJA15008	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #4 Loop 4	30JEA40CL812	30UJA15008	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
SG WR Level Sensor #5 Loop 4	30JEA40CL020	30UJA15008	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP, Loop 1							
RCP Motor Loop 1	30JEB10AP001	30UJA18002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
TB Inlet Water Vlv Actuator Loop 1	30JEB10AA021	30UJA15002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
TB Outlet Water Vlv Actuator Loop 1	30JEB10AA003	30UJA15002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #1 Leakoff Vlv Act Loop 1	30JEB10AA009	30UJA18002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #2 Tk Water Vlv Act Loop 1	30JEB10AA022	30UJA18003	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #2 Leakoff Vlv Act Loop 1	30JEB10AA010	30UJA18002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #3 Inject Vlv Act Loop 1	30JEB10AA013	30UJA34014	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #3 Leakoff Vlv Act Loop 1	30JEB10AA017	30UJA15013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SSSS Actuation Vlv Act Loop 1	30JEB10AA018	30UJA15002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SSSS Atmos Vent Vlv Act Loop 1	30JEB10AA020	30UJA15002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Oil Lift Pump Motor Loop 1	30JEB10AP011	30UJA18002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Anti-Cond Heater Element Loop 1	30JEB10AH501	30UJA23002	H	H	SII	NS-AQ	Y (1) Y (5)
RCP TB Press Sensor Loop 1	30JEB10CP002	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP TB Temp Sensor Loop 1	30JEB10CT007	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #1 Diff Press Sensor #1 Loop 1	30JEB10CP065	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #1 Diff Press Sensor #2 Loop 1	30JEB10CP567	30UJA18002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #1 Temp Sensor #1 Loop 1	30JEB10CT002	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #1 Temp Sensor #2 Loop 1	30JEB10CT003	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #2 Tk Level Sensor #1 Loop 1	30JEB10CL065	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #2 Tk Level Sensor #2 Loop 1	30JEB10CL066	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #2 Leakoff Flowrate Sensor #1 Loop 1	30JEB10CF063	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #2 Leakoff Flowrate Sensor #2 Loop 1	30JEB10CF064	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #3 Tk Level Sensor #1 Loop 1	30JEB10CL057	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP Seal #3 Tk Level Sensor #2 Loop 1	30JEB10CL061	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP SSSS Position Sensor #1 Loop 1	30JEB10CG050A	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP SSSS Position Sensor #2 Loop 1	30JEB10CG050B	30UJA11002	H	H	SII	NS-AQ EMC	Y (1) Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
RCP-M Lwr Thr Brg Temp Sensor #1 Loop 4	30JEB40CT080	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Lwr Thr Brg Temp Sensor #2 Loop 4	30JEB40CT081	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Oil Tk Temp Sensor Loop 4	30JEB40CT504	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Brg Oil Level Sensor #1 Loop 4	30JEB40CL055	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Brg Oil Level Sensor #2 Loop 4	30JEB40CL503	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Rad Brg Temp Sensor #1 Loop 4	30JEB40CT076	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Rad Brg Temp Sensor #2 Loop 4	30JEB40CT077	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Thr Brg Temp Sensor #1 Loop 4	30JEB40CT078	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Upr Thr Brg Temp Sensor #2 Loop 4	30JEB40CT079	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Oil Press Sensor #1 Loop 4	30JEB40CP099	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Oil Press Sensor #2 Loop 4	30JEB40CP505	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
RCP-M Oil Coll Tk Level Sensor Loop 4	30JEB40CL056	30UJA18009	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Reactor Coolant Loop 1							
RCS Flowrate Sensor #1 Loop 1	30JEC10CF815	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #2 Loop 1	30JEC10CF817	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #3 Loop 1	30JEC10CF819	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #4 Loop 1	30JEC10CF821	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Loop Level Sensor Loop 1	30JEC10CL823	30UJA15003	H	H	SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #1 Loop 1	30JEC10CP801	30UJA15003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #2 Loop 1	30JEC10CP802	30UJA15003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #1 Loop 1	30JEC10CT801	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #2 Loop 1	30JEC10CT802	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #3 Loop 1	30JEC10CT803	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #4 Loop 1	30JEC10CT804	30UJA15003	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L WR Temp Sensor Loop 1	30JEC10CT805	30UJA15003	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #1 Loop 1	30JEC10CT807	30UJA15002	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #2 Loop 1	30JEC10CT808	30UJA15002	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L WR Temp Sensor Loop 1	30JEC10CT811	30UJA15002	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Reactor Coolant Loop 2							
RCS Flowrate Sensor #1 Loop 2	30JEC20CF815	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #2 Loop 2	30JEC20CF817	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #3 Loop 2	30JEC20CF819	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #4 Loop 2	30JEC20CF821	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Loop Level Sensor Loop 2	30JEC20CL823	30UJA15004	H	H	SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #1 Loop 2	30JEC20CP801	30UJA15004	H	H	ES SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #2 Loop 2	30JEC20CP802	30UJA15004	H	H	ES SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #1 Loop 2	30JEC20CT801	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #2 Loop 2	30JEC20CT802	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #3 Loop 2	30JEC20CT803	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #4 Loop 2	30JEC20CT804	30UJA15004	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L WR Temp Sensor Loop 2	30JEC20CT805	30UJA15004	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #1 Loop 2	30JEC20CT807	30UJA15005	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #2 Loop 2	30JEC20CT808	30UJA15005	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L WR Temp Sensor Loop 2	30JEC20CT811	30UJA15005	H	H	PAM SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Reactor Coolant Loop 3				16-212			
RCS Flowrate Sensor #1 Loop 3	30JEC30CF815	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #2 Loop 3	30JEC30CF817	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #3 Loop 3	30JEC30CF819	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #4 Loop 3	30JEC30CF821	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Loop Level Sensor Loop 3	30JEC30CL823	30UJA15007	H	H	SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #1 Loop 3	30JEC30CP801	30UJA15007	H	H	ES SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #2 Loop 3	30JEC30CP802	30UJA15007	H	H	ES SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #1 Loop 3	30JEC30CT801	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #2 Loop 3	30JEC30CT802	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #3 Loop 3	30JEC30CT803	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #4 Loop 3	30JEC30CT804	30UJA15007	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L WR Temp Sensor Loop 3	30JEC30CT805	30UJA15007	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #1 Loop 3	30JEC30CT807	30UJA15006	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #2 Loop 3	30JEC30CT808	30UJA15006	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L WR Temp Sensor Loop 3	30JEC30CT811	30UJA11006	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
PZR Surge Line Temp Sensor	30JEC30CT056	30UJA15007	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Reactor Coolant Loop 4							
RCS Flowrate Sensor #1 Loop 4	30JEC40CF815	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #2 Loop 4	30JEC40CF817	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #3 Loop 4	30JEC40CF819	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Flowrate Sensor #4 Loop 4	30JEC40CF821	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RCS Loop Level Sensor Loop 4	30JEC40CL823	30UJA15008	H	H	SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #1 Loop 4	30JEC40CP801	30UJA15008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
RCP Delta P Sensor #2 Loop 4	30JEC40CP802	30UJA15008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #1 Loop 4	30JEC40CT801	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #2 Loop 4	30JEC40CT802	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #3 Loop 4	30JEC40CT803	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L NR Temp Sensor #4 Loop 4	30JEC40CT804	30UJA15008	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
H/L WR Temp Sensor Loop 4	30JEC40CT805	30UJA15008	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #1 Loop 4	30JEC40CT807	30UJA15009	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L NR Temp Sensor #2 Loop 4	30JEC40CT808	30UJA15009	H	H	RT ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
C/L WR Temp Sensor Loop 4	30JEC40CT811	30UJA15009	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Pressurizer							
PSRV #1 SOV #1 Actuator	30JEF10AA717	30UJA34019	H	H	SI	S 1E EMC	Y (1) Y (5)
PSRV #1 SOV #2 Actuator	30JEF10AA718	30UJA34019	H	H	SI	S 1E EMC	Y (1) Y (5)
PSRV #2 SOV #1 Actuator	30JEF10AA727	30UJA34019	H	H	SI	S 1E EMC	Y (1) Y (5)
PSRV #2 SOV #2 Actuator	30JEF10AA728	30UJA34019	H	H	SI	S 1E EMC	Y (1) Y (5)
PSRV #3 SOV #1 Actuator	30JEF10AA737	30UJA34019	H	H	SI	S 1E EMC	Y (1) Y (5)
PSRV #3 SOV #2 Actuator	30JEF10AA738	30UJA34019	H	H	SI	S 1E EMC	Y (1) Y (5)
PDS Vlv #1 Actuator	30JEF10AA004	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PDS Vlv #2 Actuator	30JEF10AA005	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PDS Vlv #3 Actuator	30JEF10AA006	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
PDS Vlv #4 Actuator	30JEF10AA007	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Normal Spray Vlv Actuator Loop 2	30JEF10AA102	30UJA18018	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PZR Normal Spray Vlv Actuator Loop 3	30JEF10AA103	30UJA18018	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PSRV #1 Position Sensor	30JEF10CG191B	30UJA34019	H	H	PAM ~~SII~~	NS-AQ EMC	Y (1) Y (5)
PSRV #1 Temp Sensor #1	30JEG10CT013	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #1 Temp Sensor #2	30JEG10CT016	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #1 Temp Sensor #3	30JEG10CT017	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #1 Relief Line Temp Sensor	30JEF10CT061	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #2 Position Sensor	30JEF10CG192B	30UJA34019	H	H	PAM ~~SII~~	NS-AQ EMC	Y (1) Y (5)
PSRV #2 Temp Sensor #1	30JEG10CT023	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #2 Temp Sensor #2	30JEG10CT026	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #2 Temp Sensor #3	30JEG10CT027	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #2 Relief Line Temp Sensor	30JEF10CT062	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #3 Position Sensor	30JEF10CG193B	30UJA34019	H	H	PAM ~~SII~~	NS-AQ EMC	Y (1) Y (5)
PSRV #3 Temp Sensor #1	30JEG10CT033	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #3 Temp Sensor #2	30JEG10CT036	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #3 Temp Sensor #3	30JEG10CT037	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PSRV #3 Relief Line Temp Sensor	30JEF10CT063	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PDS Vlv Temp Sensor	30JEF10CT064	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR/RCS Level Sensor #1	30JEF10CL081	30UJA15008	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR/RCS Level Sensor #2	30JEF10CL782	30UJA15008	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Spray Temp Sensor #1	30JEF10CT054	30UJA29019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Spray Temp Sensor #2	30JEF10CT055	30UJA29019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Level Sensor #1	30JEF10CL802	30UJA15009	H	H	RT PAM SI	S 1E EMC	Y (1) Y (5)
PZR Level Sensor #2	30JEF10CL804	30UJA15009	H	H	RT PAM SI	S 1E EMC	Y (1) Y (5)
PZR Level Sensor #3	30JEF10CL806	30UJA15009	H	H	RT PAM SI	S 1E EMC	Y (1) Y (5)
PZR Level Sensor #4	30JEF10CL808	30UJA15009	H	H	RT PAM SI	S 1E EMC	Y (1) Y (5)
PZR NR Press Sensor #1	30JEF10CP801	30UJA18019	H	H	RT ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
PZR NR Press Sensor #2	30JEF10CP803	30UJA18019	H	H	RT ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
PZR NR Press Sensor #3	30JEF10CP805	30UJA18019	H	H	RT ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
PZR NR Press Sensor #4	30JEF10CP807	30UJA18019	H	H	RT ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
PZR Steam Temp Sensor	30JEF10CT050	30UJA29019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Water Temp Sensor	30JEF10CT057	30UJA18019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PZR Vacuum Press Sensor	30JEF10CP007	30UJA29019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR On-Off Heater Element #1 Train 1	30JEF10AH111A	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #2 Train 1	30JEF10AH111B	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #3 Train 1	30JEF10AH111C	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #4 Train 1	30JEF10AH112A	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #5 Train 1	30JEF10AH112B	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #6 Train 1	30JEF10AH112C	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #7 Train 1	30JEF10AH113A	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #8 Train 1	30JEF10AH113B	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #9 Train 1	30JEF10AH113C	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #10 Train 1	30JEF10AH114A	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #11 Train 1	30JEF10AH114B	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off Heater Element #12 Train 1	30JEF10AH114C	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)	EQ Program Designation (Note 5)	
PZR Prop Heater Element #1 Train 1	30JEF10AH121A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #2 Train 1	30JEF10AH121B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #3 Train 1	30JEF10AH121C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #4 Train 1	30JEF10AH122A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #5 Train 1	30JEF10AH122B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #6 Train 1	30JEF10AH122C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #7 Train 1	30JEF10AH123A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #8 Train 1	30JEF10AH123B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #9 Train 1	30JEF10AH123C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #1 Train 1	30JEF10AH131A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #2 Train 1	30JEF10AH131B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #3 Train 1	30JEF10AH131C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #4 Train 1	30JEF10AH132A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #5 Train 1	30JEF10AH132B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #6 Train 1	30JEF10AH132C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #1 Train 2	30JEF10AH211A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #2 Train 2	30JEF10AH211B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #3 Train 2	30JEF10AH211C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #4 Train 2	30JEF10AH212A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #5 Train 2	30JEF10AH212B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #6 Train 2	30JEF10AH212C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #7 Train 2	30JEF10AH213A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #8 Train 2	30JEF10AH213B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #9 Train 2	30JEF10AH213C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #10 Train 2	30JEF10AH214A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #11 Train 2	30JEF10AH214B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #12 Train 2	30JEF10AH214C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #13 Train 2	30JEF10AH215A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #14 Train 2	30JEF10AH215B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #15 Train 2	30JEF10AH215C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #1 Train 2	30JEF10AH221A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #2 Train 2	30JEF10AH221B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #3 Train 2	30JEF10AH221C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #4 Train 2	30JEF10AH222A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #5 Train 2	30JEF10AH222B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #6 Train 2	30JEF10AH222C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #1 Train 2	30JEF10AH233A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #2 Train 2	30JEF10AH233B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #3 Train 2	30JEF10AH233C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #4 Train 2	30JEF10AH234A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #5 Train 2	30JEF10AH234B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #6 Train 2	30JEF10AH234C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #1 Train 3	30JEF10AH311A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #2 Train 3	30JEF10AH311B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #3 Train 3	30JEF10AH311C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #4 Train 3	30JEF10AH312A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)	EQ Program Designation (Note 5)	
PZR On-Off Heater Element #5 Train 3	30JEF10AH312B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #6 Train 3	30JEF10AH312C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #7 Train 3	30JEF10AH313A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #8 Train 3	30JEF10AH313B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #9 Train 3	30JEF10AH313C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #10 Train 3	30JEF10AH314A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #11 Train 3	30JEF10AH314B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #12 Train 3	30JEF10AH314C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #13 Train 3	30JEF10AH315A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #14 Train 3	30JEF10AH315B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #15 Train 3	30JEF10AH315C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #1 Train 3	30JEF10AH321A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #2 Train 3	30JEF10AH321B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #3 Train 3	30JEF10AH321C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #4 Train 3	30JEF10AH322A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #5 Train 3	30JEF10AH322B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #6 Train 3	30JEF10AH322C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #1 Train 3	30JEF10AH331A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #2 Train 3	30JEF10AH331B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #3 Train 3	30JEF10AH331C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #4 Train 3	30JEF10AH332A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #5 Train 3	30JEF10AH332B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #6 Train 3	30JEF10AH332C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #1 Train 4	30JEF10AH411A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #2 Train 4	30JEF10AH411B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #3 Train 4	30JEF10AH411C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #4 Train 4	30JEF10AH412A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #5 Train 4	30JEF10AH412B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #6 Train 4	30JEF10AH412C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #7 Train 4	30JEF10AH413A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #8 Train 4	30JEF10AH413B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #9 Train 4	30JEF10AH413C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #10 Train 4	30JEF10AH414A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #11 Train 4	30JEF10AH414B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off Heater Element #12 Train 4	30JEF10AH414C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #1 Train 4	30JEF10AH421A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #2 Train 4	30JEF10AH421B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #3 Train 4	30JEF10AH421C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #4 Train 4	30JEF10AH422A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #5 Train 4	30JEF10AH422B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #6 Train 4	30JEF10AH422C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #7 Train 4	30JEF10AH423A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #8 Train 4	30JEF10AH423B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR Prop Heater Element #9 Train 4	30JEF10AH423C	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #1 Train 4	30JEF10AH433A	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)
PZR On-Off EPS Heater Element #2 Train 4	30JEF10AH433B	30UJA18019	H	H	~~PAM~~	SII	NS-AQ	Y (1)	Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
PZR On-Off EPS Heater Element #3 Train 4	30JEF10AH433C	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off EPS Heater Element #4 Train 4	30JEF10AH434A	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off EPS Heater Element #5 Train 4	30JEF10AH434B	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
PZR On-Off EPS Heater Element #6 Train 4	30JEF10AH434C	30UJA18019	H	H	~~PAM~~ SII	NS-AQ	Y (1) Y (5)
Pressurizer Relief System							
PRT Tank Filling Iso Vlv Actuator	30JEG10AA013	30UJA15018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PRT Cooling Iso Vlv Actuator	30JEG10AA012	30UJA15018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PRT Vent Iso. Vlv Actuator	30JEG10AA014	30UJA11019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PRT Drain Vlv Actuator	30JEG10AA401	30UJA11019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Degassing Vlv #1 Actuator	30JEF10AA503	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Degassing Vlv #2 Actuator	30JEF10AA504	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Degassing Vent Iso Vlv Actuator	30JEG10AA025	30UJA11019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Vacuum Pump/N2 Vlv #1 Actuator	30JEF10AA501	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PZR Vacuum Pump/N2 Vlv #2 Actuator	30JEF10AA502	30UJA34019	H	H	SII	NS-AQ EMC	Y (1) Y (5)
PRT Level Sensor #1	30JEG10CL051	30UJA11019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PRT Level Sensor #2	30JEG10CL151	30UJA11019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PRT Press Sensor #1	30JEG10CP061	30UJA11019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PRT Press Sensor #2	30JEG10CP161	30UJA11019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PRT Temp Sensor #1	30JEG10CT021	30UJA11019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
PRT Temp Sensor #2	30JEG10CT121	30UJA11019	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Safety Injection & Residual Heat Removal System (SIS & RHRS)							
RHR 1st RCPB Iso. Valve Actuator	30JNA10AA001	30UJA11003	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RHR 2nd RCPB Iso. Valve Actuator	30JNA10AA002	30UJA11025	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
RHR Outside Cont. Iso. Valve Actuator	30JNA10AA003	31UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Bypass Control Valve Actuator	30JNA10AA101	31UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR 1st RCPB Iso. Valve Actuator	30JNA20AA001	30UJA11004	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RHR 2nd RCPB Iso. Valve Actuator	30JNA20AA002	30UJA11026	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
RHR Outside Cont. Iso. Valve Actuator	30JNA20AA003	32UJH05002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Bypass Control Valve Actuator	30JNA20AA101	32UJH05002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR 1st RCPB Iso. Valve Actuator	30JNA30AA001	30UJA11007	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RHR 2nd RCPB Iso. Valve Actuator	30JNA30AA002	30UJA11027	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
RHR Outside Cont. Iso. Valve Actuator	30JNA30AA003	33UJH05002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
HX Byp. Iso. Valve Act. on Puri. to CVCS	30JNA30AA004	33UJH05002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Bypass Control Valve Actuator	30JNA30AA101	33UJH05002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
HX Byp. Thr. Valve Act. on Puri. to CVCS	30JNA30AA103	33UJH05002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR 1st RCPB Iso. Valve Actuator	30JNA40AA001	30UJA11008	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
RHR 2nd RCPB Iso. Valve Actuator	30JNA40AA002	30UJA11028	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
RHR Outside Cont. Iso. Valve Actuator	30JNA40AA003	34UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
HX Byp. Iso. Valve Act. on Puri. to CVCS	30JNA40AA004	34UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Bypass Control Valve Actuator	30JNA40AA101	34UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
HX Byp. Thr. Valve Act. on Puri. to CVCS	30JNA40AA103	34UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Outside Cont. Iso. Valve Actuator	30JND10AA002	31UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
MHSI Small Miniflow Iso. Valve Actuator	30JND10AA004	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
MHSI Large Miniflow Iso. Valve Actuator	30JND10AA005	30UJA07014	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MHSI Pump Motor	30JND10AP001	31UJH01002	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Outside Cont. Iso. Valve Actuator	30JND20AA002	32UJH05002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Small Miniflow Iso. Valve Actuator	30JND20AA004	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
MHSI Large Miniflow Iso. Valve Actuator	30JND20AA005	30UJA07014	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MHSI Pump Motor	30JND20AP001	32UJH01007	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Outside Cont. Iso. Valve Actuator	30JND30AA002	33UJH05002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Small Miniflow Iso. Valve Actuator	30JND30AA004	30UJA07015	H	H	ES SI	S 1E EMC	Y (1) Y (5)
MHSI Large Miniflow Iso. Valve Actuator	30JND30AA005	30UJA07015	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MHSI Pump Motor	30JND30AP001	33UJH01007	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Outside Cont. Iso. Valve Actuator	30JND40AA002	34UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Small Miniflow Iso. Valve Actuator	30JND40AA004	30UJA07015	H	H	ES SI	S 1E EMC	Y (1) Y (5)
MHSI Large Miniflow Iso. Valve Actuator	30JND40AA005	30UJA07015	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MHSI Pump Motor	30JND40AP001	34UJH01002	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Suction Isolation Valve Actuator	30JNG10AA001	31UJH01005	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Rad. Miniflow Check Valve Actuator	30JNG10AA003	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
LHSI Tan. Miniflow Check Valve Actuator	30JNG10AA004	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
LHSI Cross-Connect Iso. Valve Actuator	30JNG10AA010	30UJA11013	H	H	ES SI	S 1E EMC	Y (1) Y (5)
LHSI Out. Cont. Main Iso. Valve Actuator	30JNG10AA060	31UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Out. Cont. Bypass Iso. Valve Act.	30JNG10AA061	31UJH05004	M	H 16-212	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Main Control Valve Actuator	30JNG10AA102	31UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Pre-Valve Actuator	30JNG10AA104	31UJH05004	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG10AA601	31UJH05004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG10AA602	31UJH05005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG10AA603	31UJH05005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Pump Motor	30JNG10AP001	31UJH01006	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HL Injection Iso. Valve Actuator	30JNG12AA001	31UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Accum. Filling Line Iso. Valve Actuator	30JNG13AA002	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Accum.-Nitrogen Dist. Iso. Valve Act.	30JNG13AA006	30UJA23013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Accumulator Isolation Valve Actuator	30JNG13AA008	30UJA11025	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Accum. Depress. Control Valve Actuator	30JNG13AA101	30UJA23013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Accum. Depress. Iso. Valve Actuator	30JNG13AA502	30UJA23013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Accum. Sampling Line Iso. Valve Act.	30JNG13AA602	30UJA15013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Dead Leg Pressurization Valve Actuator	30JNG15AA001	30UJA11003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
RCS Suct. Line Press. Valve Actuator	30JNG15AA002	30UJA11003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Dead Leg Press. Bypass Iso. Valve Act.	30JNG15AA003	30UJA11003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Dead Leg Press. Control Iso. Valve Act.	30JNG15AA004	30UJA07014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
LHSI Suction Isolation Valve Actuator	30JNG20AA001	32UJH01008	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Rad. Miniflow Check Valve Actuator	30JNG20AA003	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
LHSI Tan. Miniflow Check Valve Actuator	30JNG20AA004	30UJA07014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
LHSI Cross-Connect Iso. Valve Actuator	30JNG20AA010	30UJA11014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
LHSI Out. Cont. Main Iso. Valve Actuator	30JNG20AA060	32UJH05002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Out. Cont. Bypass Iso. Valve Act.	30JNG20AA061	32UJH05002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Main Control Valve Actuator	30JNG20AA102	32UJH05002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Pre-Valve Actuator	30JNG20AA104	32UJH05002	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)				EQ Program Designation (Note 5)		
LHSI Sampling Line Iso. Valve Actuator	30JNG20AA601	32UJH05002	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG20AA602	32UJH05006	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG20AA603	32UJH05006	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Pump Motor	30JNG20AP001	32UJH01009	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI HL Injection Iso. Valve Actuator	30JNG22AA001	32UJH05002	M	H	ES	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Accum. Filling Line Iso. Valve Actuator	30JNG23AA002	30UJA07014	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
Accum.-Nitrogen Dist. Iso. Valve Act.	30JNG23AA006	30UJA23014	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Accumulator Isolation Valve Actuator	30JNG23AA008	30UJA11026	H	H	ES	PAM SI	S	1E	EMC	Y (1)		Y (5)	
Accum. Depress. Control Valve Actuator	30JNG23AA101	30UJA23014	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Accum. Depress. Iso. Valve Actuator	30JNG23AA502	30UJA23014	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Accum. Sampling Line Iso. Valve Act.	30JNG23AA602	30UJA15014	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Dead Leg Pressurization Valve Actuator	30JNG25AA001	30UJA11004	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
RCS Suct. Line Press. Valve Actuator	30JNG25AA002	30UJA11004	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
Dead Leg Press. Bypass Iso. Valve Act.	30JNG25AA003	30UJA11004	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
Dead Leg Press. Control Iso. Valve Act.	30JNG25AA004	30UJA07014	H	H	ES	PAM SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Suction Isolation Valve Actuator	30JNG30AA001	33UJH01008	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Rad. Miniflow Check Valve Actuator	30JNG30AA003	30UJA07015	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Tan. Miniflow Check Valve Actuator	30JNG30AA004	30UJA07015	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Cross-Connect Iso. Valve Actuator	30JNG30AA010	30UJA11015	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Out. Cont. Main Iso. Valve Actuator	30JNG30AA060	33UJH05002	M	H	ES	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Out. Cont. Bypass Iso. Valve Act.	30JNG30AA061	33UJH05002	M	H	ES	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI HX Main Control Valve Actuator	30JNG30AA102	33UJH05002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI HX Pre-Valve Actuator	30JNG30AA104	33UJH05002	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG30AA601	33UJH05002	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG30AA602	33UJH05006	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG30AA603	33UJH05006	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Pump Motor	30JNG30AP001	33UJH01009	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI HL Injection Iso. Valve Actuator	30JNG32AA001	33UJH05002	M	H	ES	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Accum. Filling Line Iso. Valve Actuator	30JNG33AA002	30UJA07015	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
Accum.-Nitrogen Dist. Iso. Valve Act.	30JNG33AA006	30UJA23015	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Accumulator Isolation Valve Actuator	30JNG33AA008	30UJA11027	H	H	ES	PAM SI	S	1E	EMC	Y (1)		Y (5)	
Accum. Depress. Control Valve Actuator	30JNG33AA101	30UJA23015	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Accum. Depress. Iso. Valve Actuator	30JNG33AA502	30UJA23015	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Accum. Sampling Line Iso. Valve Act.	30JNG33AA602	30UJA15015	H	H		SII	NS-AQ		EMC	Y (1)		Y (5)	
Dead Leg Pressurization Valve Actuator	30JNG35AA001	30UJA11007	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
RCS Suct. Line Press. Valve Actuator	30JNG35AA002	30UJA11007	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
Dead Leg Press. Bypass Iso. Valve Act.	30JNG35AA003	30UJA11007	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
Dead Leg Press. Control Iso. Valve Act.	30JNG35AA004	30UJA07015	H	H	ES	PAM SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Suction Isolation Valve Actuator	30JNG40AA001	34UJH01005	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Rad. Miniflow Check Valve Actuator	30JNG40AA003	30UJA07015	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Tan. Miniflow Check Valve Actuator	30JNG40AA004	30UJA07015	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
SAHRS-IRWST 1st Iso. Valve Actuator	30JNG40AA007	34UJH01006	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
SAHRS-IRWST 2nd Iso. Valve Actuator	30JNG40AA008	34UJH01006	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Cross-Connect Iso. Valve Actuator	30JNG40AA010	30UJA11016	H	H	ES	SI	S	1E	EMC	Y (1)		Y (5)	
LHSI Out. Cont. Main Iso. Valve Actuator	30JNG40AA060	34UJH05004	M	H	ES	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
LHSI Out. Cont. Bypass Iso. Valve Act.	30JNG40AA061	34UJH05004	M	H	ES	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
LHSI HX Main Control Valve Actuator	30JNG40AA102	34UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HX Pre-Valve Actuator	30JNG40AA104	34UJH05004	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG40AA601	34UJH05004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG40AA602	34UJH05005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Sampling Line Iso. Valve Actuator	30JNG40AA603	34UJH05005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Pump Motor	30JNG40AP001	34UJH01006	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI HL Injection Iso. Valve Actuator	30JNG42AA001	34UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Accum. Filling Line Iso. Valve Actuator	30JNG43AA002	30UJA07015	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Accum.-Nitrogen Dist. Iso. Valve Act.	30JNG43AA006	30UJA23016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Accumulator Isolation Valve Actuator	30JNG43AA008	30UJA11028	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Accum. Depress. Control Valve Actuator	30JNG43AA101	30UJA23016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Accum. Depress. Iso. Valve Actuator	30JNG43AA502	30UJA23016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Accum. Sampling Line Iso. Valve Act.	30JNG43AA602	30UJA15016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Dead Leg Pressurization Valve Actuator	30JNG45AA001	30UJA11008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
RCS Suct. Line Press. Valve Actuator	30JNG45AA002	30UJA11008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Dead Leg Press. Bypass Iso. Valve Act.	30JNG45AA003	30UJA11008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Dead Leg Press. Control Iso. Valve Act.	30JNG45AA004	30UJA07015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA10CG101	31UJH05004	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA10CG191B	30UJA11025	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SAB Sump Level Sensor 1	30JNA10CL801	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 2	30JNA10CL802	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 3	30JNA10CL803	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 4	30JNA10CL804	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 1	30JNA10CP801	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 2	30JNA10CP802	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 3	30JNA10CP803	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 4	30JNA10CP804	31UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Hot Leg Pressure Sensor (WR)	30JNA10CP826	30UJA07014	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA10CP827	30UJA07014	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA20CG101	32UJH05002	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA20CG191B	30UJA11026	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SAB Sump Level Sensor 1	30JNA20CL801	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 2	30JNA20CL802	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 3	30JNA20CL803	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 4	30JNA20CL804	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 1	30JNA20CP801	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 2	30JNA20CP802	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 3	30JNA20CP803	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 4	30JNA20CP804	32UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Hot Leg Pressure Sensor (WR)	30JNA20CP826	30UJA07014	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA20CP827	30UJA07014	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA30CG101	33UJH05002	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
HX Thr. Val. on Puri. to CVCS Pos. Ssr.	30JNA30CG103	33UJH05002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA30CG191B	30UJA11027	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SAB Sump Level Sensor 1	30JNA30CL801	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 2	30JNA30CL802	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SAB Sump Level Sensor 3	30JNA30CL803	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 4	30JNA30CL804	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 1	30JNA30CP801	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 2	30JNA30CP802	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 3	30JNA30CP803	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 4	30JNA30CP804	33UJH10002	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Hot Leg Pressure Sensor (WR)	30JNA30CP826	30UJA07015	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA30CP827	30UJA07015	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
LHSI HX Byp. Control Valve Pos. Sensor	30JNA40CG101	34UJH05004	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
HX Thr. Val. on Puri. to CVCS Pos. Ssr.	30JNA40CG103	34UJH05004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Suct. Line Safety Valve Pos. Sensor	30JNA40CG191B	30UJA11028	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
SAB Sump Level Sensor 1	30JNA40CL801	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 2	30JNA40CL802	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 3	30JNA40CL803	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Sump Level Sensor 4	30JNA40CL804	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 1	30JNA40CP801	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 2	30JNA40CP802	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 3	30JNA40CP803	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
SAB Pressure Sensor 4	30JNA40CP804	34UJH10004	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Hot Leg Pressure Sensor (WR)	30JNA40CP826	30UJA07016	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Hot Leg Pressure Sensor (NR)	30JNA40CP827	30UJA07016	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MHSI Flowrate Sensor (WR)	30JND10CF001A	31UJH01001	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (NR)	30JND10CF001B	31UJH01001	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Pump Downstream Press. Sensor	30JND10CP003	31UJH01001	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (WR)	30JND20CF001A	32UJH01003	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (NR)	30JND20CF001B	32UJH01003	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Pump Downstream Press. Sensor	30JND20CP003	32UJH01003	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (WR)	30JND30CF001A	33UJH01003	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (NR)	30JND30CF001B	33UJH01003	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Pump Downstream Press. Sensor	30JND30CP003	33UJH01003	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (WR)	30JND40CF001A	34UJH01001	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Flowrate Sensor (NR)	30JND40CF001B	34UJH01001	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
MHSI Pump Downstream Press. Sensor	30JND40CP003	34UJH01001	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Flowrate Sensor (WR)	30JNG10CF001A	31UJH01001	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Flowrate Sensor (NR)	30JNG10CF001B	31UJH01001	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG10CG192B	30UJA11025	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
LHSI HX Main Control Valve Pos. Sensor	30JNG10CG802	31UJH05004	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Pump Downstream Press. Sensor	30JNG10CP003	31UJH05010	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LHSI Pump Downstream Temp. Sensor	30JNG10CT001	31UJH05004	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
RHR Temperature Sensor	30JNG10CT002	31UJH01002	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Hot Leg Injection Flowrate Sensor	30JNG12CF001	31UJH01001	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Accumulator Level Sensor 1 (NR)	30JNG13CL001	30UJA18013	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Accumulator Level Sensor 2 (NR)	30JNG13CL002	30UJA18013	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Accumulator Level Sensor (WR)	30JNG13CL003	30UJA15013	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Accumulator Pressure Sensor 1 (NR)	30JNG13CP001	30UJA23013	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Accumulator Pressure Sensor 2 (NR)	30JNG13CP002	30UJA23013	H	H	ES ~~PAM~~ SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)			Safety Class (Note 4)			EQ Program Designation (Note 5)				
Accumulator Pressure Sensor (WR)	30JNG13CP004	30UJA23013	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
RHR Flowrate Sensor (WR)	30JNG20CF001A	32UJH01003	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
RHR Flowrate Sensor (NR)	30JNG20CF001B	32UJH01003	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG20CG192B	30UJA11026	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
LHSI HX Main Control Valve Pos. Sensor	30JNG20CG802	32UJH05002	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Pump Downstream Press. Sensor	30JNG20CP003	32UJH05005	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Pump Downstream Temp. Sensor	30JNG20CT001	32UJH05002	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
RHR Temperature Sensor	30JNG20CT002	32UJH01007	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
Hot Leg Injection Flowrate Sensor	30JNG22CF001	32UJH05010	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
Accumulator Level Sensor 1 (NR)	30JNG23CL001	30UJA18014	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Level Sensor 2 (NR)	30JNG23CL002	30UJA18014	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Level Sensor (WR)	30JNG23CL003	30UJA15014	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor 1 (NR)	30JNG23CP001	30UJA23014	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor 2 (NR)	30JNG23CP002	30UJA23014	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor (WR)	30JNG23CP004	30UJA23014	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
RHR Flowrate Sensor (WR)	30JNG30CF001A	33UJH01003	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
RHR Flowrate Sensor (NR)	30JNG30CF001B	33UJH01003	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG30CG192B	30UJA11027	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
LHSI HX Main Control Valve Pos. Sensor	30JNG30CG802	33UJH05002	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Pump Downstream Press. Sensor	30JNG30CP003	33UJH05005	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Pump Downstream Temp. Sensor	30JNG30CT001	33UJH05002	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
RHR Temperature Sensor	30JNG30CT002	33UJH01007	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
Hot Leg Injection Flowrate Sensor	30JNG32CF001	33UJH05010	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
Accumulator Level Sensor 1 (NR)	30JNG33CL001	30UJA18015	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Level Sensor 2 (NR)	30JNG33CL002	30UJA18015	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Level Sensor (WR)	30JNG33CL003	30UJA15015	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor 1 (NR)	30JNG33CP001	30UJA23015	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor 2 (NR)	30JNG33CP002	30UJA23015	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor (WR)	30JNG33CP004	30UJA23015	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
RHR Flowrate Sensor (WR)	30JNG40CF001A	34UJH01001	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
RHR Flowrate Sensor (NR)	30JNG40CF001B	34UJH01001	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Disch. Line Safety Val. Pos. Sensor	30JNG40CG192B	30UJA11028	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
LHSI HX Main Control Valve Pos. Sensor	30JNG40CG802	34UJH05004	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Pump Downstream Press. Sensor	30JNG40CP003	34UJH05006	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
LHSI Pump Downstream Temp. Sensor	30JNG40CT001	34UJH05004	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
RHR Temperature Sensor	30JNG40CT002	34UJH01002	M	H	ES	~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
Hot Leg Injection Flowrate Sensor	30JNG42CF001	34UJH01001	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)	
Accumulator Level Sensor 1 (NR)	30JNG43CL001	30UJA18016	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Level Sensor 2 (NR)	30JNG43CL002	30UJA18016	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Level Sensor (WR)	30JNG43CL003	30UJA15016	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor 1 (NR)	30JNG43CP001	30UJA23016	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor 2 (NR)	30JNG43CP002	30UJA23016	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		
Accumulator Pressure Sensor (WR)	30JNG43CP004	30UJA23016	H	H	ES	~~PAM~~	SI	S	1E	EMC	Y (1)		Y (5)		

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Component Cooling Water System (CCWS)							
MOTOR FDR CUR L2	30KAA10CE102	31UJK18026	M	M	SII	NS-AQ EMC	Y (5) Y (6)
F TRN10 HX OUT MEAS	30KAA10CF053	31UJH10026	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
CTR-V DW TRN10	30KAA10CF057	31UJH01024	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F TRN10 HX OUT TEST MEAS	30KAA10CF255	31UJH10026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F RETN SUR TK10 MEAS	30KAA10CF570	31UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *10AA006*	30KAA10CG006A	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *10AA006*	30KAA10CG006B	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *10AA010*	30KAA10CG010A	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *10AA010*	30KAA10CG010B	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *10AA027*	30KAA10CG027A	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *10AA027*	30KAA10CG027B	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *10AA032*	30KAA10CG032A	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *10AA032*	30KAA10CG032B	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *10AA033*	30KAA10CG033A	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *10AA033*	30KAA10CG033B	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G MEAS *10AA112*	30KAA10CG112	31UJH10026	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
Tr 1 SUR Tk Lvl 1	30KAA10CL094	31UJK31026	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
Tr 1 SUR Tk Lvl 2	30KAA10CL099	31UJK31027	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
L OIL PP1 DRV-E BRG	30KAA10CL520	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
L OIL PP1 BRG	30KAA10CL521	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
L SUR TK10 MEAS	30KAA10CL598	31UJK31027	M	M	SI	S 1E EMC	Y (5) Y (6)
DP HX10 MEAS	30KAA10CP051	31UJH05026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P DNSTR PP10	30KAA10CP083	31UJH01026	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
DP SUCT STRN10	30KAA10CP274	31UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P DNSTR HX10	30KAA10CP297	31UJH10026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P UPSTR PP10	30KAA10CP578	31UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNSTR PP10	30KAA10CP579	31UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T CW USERS TRN10	30KAA10CP587	31UJH10026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P M CL PP10	30KAA10CP591	31UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
SAFE C COOL SYST 1	30KAA10CR001	31UJH05026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T PP1 N-DRV-E1 BRG A	30KAA10CT001A	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP1 N-DRV-E1 BRG B	30KAA10CT001B	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP1 DRV-E BRG A	30KAA10CT002A	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP1 DRV-E BRG B	30KAA10CT002B	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP1 N-DRV-E2 BRG A	30KAA10CT003A	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP1 N-DRV-E2 BRG B	30KAA10CT003B	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1 WNDG1	30KAA10CT005	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1 WNDG2	30KAA10CT006	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1 WNDG3	30KAA10CT007	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1AIR W CL INL A	30KAA10CT011	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1AIR W CL OUTL A	30KAA10CT012	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1 PP-E BRG A	30KAA10CT015A	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1 PP-E BRG B	30KAA10CT015B	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M1 N-PP-E BRG A	30KAA10CT016A	31UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)				EQ Program Designation (Note 5)		
T M1 N-PP-E BRG B	30KAA10CT016B	31UJH01026	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T OUTL HX10 MEAS	30KAA10CT090	31UJH10026	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T INL HX10 MEAS	30KAA10CT092	31UJH01026	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T RETN CCWS PP CL1	30KAA10CT288	31UJH01026	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T1 CW USERS TRN10	30KAA10CT893	31UJH10026	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T2 CW USERS TRN10	30KAA10CT894	31UJH10026	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T3 CW USERS TRN10	30KAA10CT895	31UJH10026	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
F LHSI HX1 MEAS	30KAA12CF062	31UJH05025	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
F MHSI PP1	30KAA12CF066	31UJH01001	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
F TEST MHSI PP1	30KAA12CF264	31UJH01002	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *12AA005*	30KAA12CG005A	31UJH10004	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *12AA005*	30KAA12CG005B	31UJH10004	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T DNSTR MHSI PP1	30KAA12CT258	31UJH01001	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T DNSTR LHSI HX1	30KAA12CT555	31UJH05005	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
MOTOR FDR CUR L2	30KAA20CE102	32UJK18020	M	M		SII	NS-AQ		EMC			Y (5)	Y (6)
F TRN20 HX OUT MEAS	30KAA20CF053	32UJH05006	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
CTR-V DW TRN20	30KAA20CF057	32UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
F RETN CCWS PP CL2	30KAA20CF240	32UJH01020	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
F TRN20 HX OUT TEST MEAS	30KAA20CF255	32UJH05006	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
F RETN SUR TK20 MEAS	30KAA20CF570	32UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *20AA006*	30KAA20CG006A	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA006*	30KAA20CG006B	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *20AA010*	30KAA20CG010A	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA010*	30KAA20CG010B	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA013*	30KAA20CG013B	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA014*	30KAA20CG014B	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *20AA027*	30KAA20CG027A	32UJH01020	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA027*	30KAA20CG027B	32UJH01020	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *20AA032*	30KAA20CG032A	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA032*	30KAA20CG032B	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *20AA033*	30KAA20CG033A	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *20AA033*	30KAA20CG033B	32UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G MEAS *20AA112*	30KAA20CG112	32UJH10020	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Tr 2 SUR Tk Lvl 1	30KAA20CL094	32UJK31036	M	M	ES ~~PAM~~	SI	S	1E	EMC			Y (5)	Y (6)
Tr 2 SUR Tk Lvl 2	30KAA20CL099	32UJK31037	M	M	ES ~~PAM~~	SI	S	1E	EMC			Y (5)	Y (6)
L OIL PP2 DRV-E BRG	30KAA20CL520	32UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
L OIL PP2 BRG	30KAA20CL521	32UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
L SUR TK20 MEAS	30KAA20CL598	32UJK31037	M	M		SI	S	1E	EMC			Y (5)	Y (6)
DP HX20 MEAS	30KAA20CP051	32UJH05020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P DNSTR PP20	30KAA20CP083	32UJH01020	M	H	ES ~~PAM~~	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
DP SUCT STRN20	30KAA20CP274	32UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P DNSTR HX20	30KAA20CP297	32UJH10020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P UPSTR PP20	30KAA20CP578	32UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P TEST DNSTR PP20	30KAA20CP579	32UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T CW USERS TRN20	30KAA20CP587	32UJH10020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P M CL PP20	30KAA20CP591	32UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SAFE C COOL SYST 2	30KAA20CR001	32UJH05020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T PP2 N-DRV-E1 BRG A	30KAA20CT001A	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP2 N-DRV-E1 BRG B	30KAA20CT001B	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP2 DRV-E BRG A	30KAA20CT002A	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP2 DRV-E BRG B	30KAA20CT002B	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP2 N-DRV-E2 BRG A	30KAA20CT003A	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP2 N-DRV-E2 BRG B	30KAA20CT003B	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 WNDG1	30KAA20CT005	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 WNDG2	30KAA20CT006	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 WNDG3	30KAA20CT007	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 AIR W CL INL A	30KAA20CT011	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 AIR W CL OUTL A	30KAA20CT012	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 PP-E BRG A	30KAA20CT015A	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 PP-E BRG B	30KAA20CT015B	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 N-PP-E BRG A	30KAA20CT016A	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M2 N-PP-E BRG B	30KAA20CT016B	32UJH01020	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T OUTL HX20 MEAS	30KAA20CT090	32UJH10020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T INL HX20 MEAS	30KAA20CT092	32UJH01020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T RETN CCWS PP CL2	30KAA20CT288	32UJH01020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T1 CW USERS TRN20	30KAA20CT893	32UJH10020	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
T2 CW USERS TRN20	30KAA20CT894	32UJH10020	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
T3 CW USERS TRN20	30KAA20CT895	32UJH10020	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F LHSI HX2 MEAS	30KAA22CF062	32UJH05020	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F MHSI PP2	30KAA22CF066	32UJH01005	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F SAFE CHIL2	30KAA22CF068	32UJH05020	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F LHSI PP2	30KAA22CF080	32UJH01005	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F TEST MHSI PP2	30KAA22CF264	32UJH01005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F LHSI TEST PP2	30KAA22CF282	32UJH01005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *22AA005*	30KAA22CG005A	32UJH10002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *22AA005*	30KAA22CG005B	32UJH10002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G MEAS *22AA101*	30KAA22CG101	32UJH05020	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
P DNSTR SAFE CHIL2	30KAA22CP501	32UJH05020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P DNSTR *22 AA101*	30KAA22CP502	32UJH05020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P UPSTR SAFE CHIL2	30KAA22CP503	32UJH05020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR MHSI PP2	30KAA22CT258	32UJH01005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR LHSI PP2	30KAA22CT284	32UJH01005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR SAFE CHIL2	30KAA22CT553	32UJH05020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR LHSI HX2	30KAA22CT555	32UJH05006	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
MOTOR FDR CUR L2	30KAA30CE102	33UJK18020	M	M	SII	NS-AQ EMC	Y (5) Y (6)
F TRN30 HX OUT MEAS	30KAA30CF053	33UJH05006	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
CTR-V DW TRN30	30KAA30CF057	33UJH01020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F RETN CCWS PP CL3	30KAA30CF240	33UJH01020	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F TRN30 HX OUT TEST MEAS	30KAA30CF255	33UJH05006	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F RETN SUR TK30 MEAS	30KAA30CF570	33UJH01020	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *30AA006*	30KAA30CG006A	33UJH10002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *30AA006*	30KAA30CG006B	33UJH10002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)				EQ Program Designation (Note 5)		
G OPNG *30AA010*	30KAA30CG010A	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *30AA010*	30KAA30CG010B	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *30AA013*	30KAA30CG013B	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *30AA014*	30KAA30CG014B	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *30AA027*	30KAA30CG027A	33UJH01020	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *30AA027*	30KAA30CG027B	33UJH01020	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *30AA032*	30KAA30CG032A	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *30AA032*	30KAA30CG032B	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G OPNG *30AA033*	30KAA30CG033A	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G CLS *30AA033*	30KAA30CG033B	33UJH10002	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
G MEAS *30AA112*	30KAA30CG112	33UJH10020	M	H	ES	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Tr 3 SUR Tk Lvl 1	30KAA30CL094	33UJK31036	M	M	ES	~~PAM~~ SI	S	1E	EMC			Y (5)	Y (6)
Tr 3 SUR Tk Lvl 2	30KAA30CL099	33UJK31037	M	M	ES	~~PAM~~ SI	S	1E	EMC			Y (5)	Y (6)
L OIL PP3 DRV-E BRG	30KAA30CL520	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
L OIL PP3 BRG	30KAA30CL521	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
L SUR TK30 MEAS	30KAA30CL598	33UJK31037	M	M		SI	S	1E	EMC			Y (5)	Y (6)
DP HX30 MEAS	30KAA30CP051	33UJH05020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P DNSTR PP30	30KAA30CP083	33UJH01020	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
DP SUCT STRN30	30KAA30CP274	33UJH10020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P DNSTR HX30	30KAA30CP297	33UJH10020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P UPSTR PP30	30KAA30CP578	33UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P TEST DNSTR PP30	30KAA30CP579	33UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T CW USERS TRN30	30KAA30CP587	33UJH10020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
P M CL PP30	30KAA30CP591	33UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
SAFE C COOL SYST 3	30KAA30CR001	33UJH05020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T PP3 N-DRV-E1 BRG A	30KAA30CT001A	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T PP3 N-DRV-E1 BRG B	30KAA30CT001B	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T PP3 DRV-E BRG A	30KAA30CT002A	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T PP3 DRV-E BRG B	30KAA30CT002B	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T PP3 N-DRV-E2 BRG A	30KAA30CT003A	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T PP3 N-DRV-E2 BRG B	30KAA30CT003B	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 WNDG1	30KAA30CT005	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 WNDG2	30KAA30CT006	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 WNDG3	30KAA30CT007	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 AIR W CL INL A	30KAA30CT011	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 AIR W CL OUTL A	30KAA30CT012	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 PP-E BRG A	30KAA30CT015A	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 PP-E BRG B	30KAA30CT015B	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 N-PP-E BRG A	30KAA30CT016A	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T M3 N-PP-E BRG B	30KAA30CT016B	33UJH01020	M	H		SII	NS-AQ		EMC		Y (2)	Y (5)	Y (6)
T OUTL HX30 MEAS	30KAA30CT090	33UJH10020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T INL HX30 MEAS	30KAA30CT092	33UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T RETN CCWS PP CL3	30KAA30CT288	33UJH01020	M	H		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T1 CW USERS TRN30	30KAA30CT893	33UJH10020	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T2 CW USERS TRN30	30KAA30CT894	33UJH10020	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
T3 CW USERS TRN30	30KAA30CT895	33UJH10020	M	H	ES	~~PAM~~ SI	S	1E	EMC		Y (2)	Y (5)	Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)				EQ Program Designation (Note 5)		
F LHSI HX3 MEAS	30KAA32CF062	33UJH05020	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F MHSI PP3	30KAA32CF066	33UJH01005	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F SAFE CHIL3	30KAA32CF068	33UJH05020	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F LHSI PP3	30KAA32CF080	33UJH01005	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F TEST MHSI PP3	30KAA32CF264	33UJH01005	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F LHSI TEST PP3	30KAA32CF282	33UJH01005	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G OPNG *32AA005*	30KAA32CG005A	33UJH10002	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G CLS *32AA005*	30KAA32CG005B	33UJH10002	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G MEAS *32AA101*	30KAA32CG101	33UJH05038	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P DNSTR SAFE CHIL3	30KAA32CP501	33UJH05020	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P DNSTR *32 AA101*	30KAA32CP502	33UJH05020	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P UPSTR SAFE CHIL3	30KAA32CP503	33UJH05020	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
T DNSTR MHSI PP3	30KAA32CT258	33UJH01005	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
T DNSTR LHSI PP3	30KAA32CT284	33UJH01005	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
T DNSTR SAFE CHIL3	30KAA32CT553	33UJH05020	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
T DNSTR LHSI HX3	30KAA32CT555	33UJH05006	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
MOTOR FDR CUR L2	30KAA40CE102	34UJK18026	M	M			SII	NS-AQ		EMC		Y (5)	Y (6)
F TRN40 HX OUT MEAS	30KAA40CF053	34UJH10026	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
CTR-V DW TRN40	30KAA40CF057	34UJH01024	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F RETN CCWS PP CL4	30KAA40CF240	34UJH01026	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F TRN40 HX OUT TEST MEAS	30KAA40CF255	34UJH10026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
F RETN SUR TK40 MEAS	30KAA40CF570	34UJH01026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G OPNG *40AA006*	30KAA40CG006A	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G CLS *40AA006*	30KAA40CG006B	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G OPNG *40AA010*	30KAA40CG010A	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G CLS *40AA010*	30KAA40CG010B	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G OPNG *40AA027*	30KAA40CG027A	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G CLS *40AA027*	30KAA40CG027B	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G OPNG *40AA032*	30KAA40CG032A	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G CLS *40AA032*	30KAA40CG032B	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G OPNG *40AA033*	30KAA40CG033A	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G CLS *40AA033*	30KAA40CG033B	34UJH10004	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
G MEAS *40AA112*	30KAA40CG112	34UJH10026	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
Tr 4 SUR Tk Lvl 1	30KAA40CL094	34UJK31027	M	M	ES	~~PAM~~	SI	S	1E	EMC		Y (5)	Y (6)
Tr 4 SUR Tk Lvl 2	30KAA40CL099	34UJK31027	M	M	ES	~~PAM~~	SI	S	1E	EMC		Y (5)	Y (6)
L OIL PP4 DRV-E BRG	30KAA40CL520	34UJH01026	M	H			SII	NS-AQ		EMC	Y (2)	Y (5)	Y (6)
L OIL PP4 BRG	30KAA40CL521	34UJH01026	M	H			SII	NS-AQ		EMC	Y (2)	Y (5)	Y (6)
L SUR TK40 MEAS	30KAA40CL598	34UJK31027	M	M			SI	S	1E	EMC		Y (5)	Y (6)
DP HX40 MEAS	30KAA40CP051	34UJH05026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P DNSTR PP40	30KAA40CP083	34UJH01026	M	H	ES	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
DP SUCT STRN40	30KAA40CP274	34UJH01026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P DNSTR HX40	30KAA40CP297	34UJH10026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P UPSTR PP40	30KAA40CP578	34UJH01026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P TEST DNSTR PP40	30KAA40CP579	34UJH01026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
T CW USERS TRN40	30KAA40CP587	34UJH10026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
P M CL PP40	30KAA40CP591	34UJH01026	M	H			SI	S	1E	EMC	Y (2)	Y (5)	Y (6)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SAFE C COOL SYST 4	30KAA40CR001	34UJH05026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T PP4 N-DRV-E1 BRG A	30KAA40CT001A	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP4 N-DRV-E1 BRG B	30KAA40CT001B	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP4 DRV-E BRG A	30KAA40CT002A	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP4 DRV-E BRG B	30KAA40CT002B	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP4 N-DRV-E2 BRG A	30KAA40CT003A	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T PP4 N-DRV-E2 BRG B	30KAA40CT003B	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 WNDG1	30KAA40CT005	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 WNDG2	30KAA40CT006	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 WNDG3	30KAA40CT007	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 AIR W CL INL A	30KAA40CT011	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 AIR W CL OUTL A	30KAA40CT012	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 PP-E BRG A	30KAA40CT015A	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 PP-E BRG B	30KAA40CT015B	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 PP-E BRG A	30KAA40CT016A	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T M4 N-PP-E BRG B	30KAA40CT016B	34UJH01026	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
T OUTL HX40 MEAS	30KAA40CT090	34UJH10026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T INL HX40 MEAS	30KAA40CT092	34UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T RETN CCWS PP CL4	30KAA40CT288	34UJH01026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T1 CW USERS TRN40	30KAA40CT893	34UJH10026	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
T2 CW USERS TRN40	30KAA40CT894	34UJH10026	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
T3 CW USERS TRN40	30KAA40CT895	34UJH10026	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F LHSI HX4 MEAS	30KAA42CF062	34UJH05025	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F MHSI PP4	30KAA42CF066	34UJH01001	M	H	ES ~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
F TEST MHSI PP3	30KAA42CF264	34UJH01001	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *42AA005*	30KAA42CG005A	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *42AA005*	30KAA42CG005B	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR MHSI PP4	30KAA42CT258	34UJH01001	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR LHSI HX4	30KAA42CT555	34UJH05005	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
L OIL MIN PP	30KAA80CL501	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T BRG KAA80 AP001	30KAA80CT001A	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T BRG KAA80 AP001	30KAA80CT001B	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T THR BRG1 MAIN PP50	30KAA80CT002A	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T THR BRG1 MAIN PP50	30KAA80CT002B	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T THR BRG2 MAIN PP50	30KAA80CT003A	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T THR BRG2 MAIN PP50	30KAA80CT003B	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T BRG 1 MAIN PP80 MTR	30KAA80CT051	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T BRG 2 MAIN PP80 M	30KAA80CT052	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T WNDG 1 MAIN PP80 M	30KAA80CT061	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T WNDG 2 MAIN PP80 M	30KAA80CT062	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T WNDG 3 MAIN PP80 M	30KAA80CT063	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T A INL MAIN PP80 M	30KAA80CT071	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
T A OUTL MAIN PP80 M	30KAA80CT072	34UJH01026	M	H	SII	NS-AQ	Y (2) Y (5)
FAJ-V FAK10 AC001 - ACT	30KAB10AA134	30UFA06023	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
F FPCS HX1 MEAS	30KAB10CF070	30UFA10002	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
F CVCS PP1	30KAB10CF093	30UFA06035	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
F TEST CVCS PP1	30KAB10CF289	30UFA06035	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F NSS SG1 SG2	30KAB10CF564	30UFA06086	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F NSS HL1 PZR	30KAB10CF566	30UFA06086	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F DNSTR KLL61AC002-3	30KAB10CF567	30UFA05026	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G MEAS *KAB10AA134*	30KAB10CG134	30UFA06023	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR QUC11 AC001	30KAB10CP250	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR QUC12 AC001	30KAB10CP252	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR KUA30 AC001	30KAB10CP254	30UFA06082	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR KUA20 AC001	30KAB10CP256	30UFA06082	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR KBA31 AC103	30KAB10CP260	30UFA06035	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR KBA31 AC101	30KAB10CP262	30UFA06035	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST UPR SAMPL CLRS	30KAB10CP282	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST UPSTR KBA CLR	30KAB10CP284	30UFA06023	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST KBA31 AC102	30KAB10CP292	30UFA06035	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T TEST UPSTR FPCS HX1	30KAB10CT267	30UFA06023	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T TEST DNSTR FPCS HX1	30KAB10CT268	30UFA06023	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T TEST NSS SG1 SG2	30KAB10CT272	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T TEST NSS HL1 PZR	30KAB10CT273	30UFA06082	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR FPCS HX1	30KAB10CT565	30UFA06023	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T CVCS PP1	30KAB10CT578	30UFA06035	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
FAJ-V FAK20 AC001 - ACT	30KAB20AA134	30UFA06074	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
F FPCS HX2 MEAS	30KAB20CF070	30UFA10052	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
F CVCS PP2	30KAB20CF093	30UFA06085	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F TEST CVCS PP2	30KAB20CF289	30UFA06085	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F NSS SG3 SG4	30KAB20CF564	30UFA06086	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F DNSTR NSS HL3	30KAB20CF566	30UFA06086	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F DNSTR KLL64AC002-3	30KAB20CF567	30UFA06074	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G MEAS *KAB20AA134*	30KAB20CG134	30UFA06074	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR QUC13 AC001	30KAB20CP252	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR QUC14 AC001	30KAB20CP254	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR KUA10 AC001	30KAB20CP256	30UFA06082	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR CVCS PP OIL 2	30KAB20CP260	30UFA06085	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR CVCS PP M 2	30KAB20CP262	30UFA06085	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST UPR SAMPL CLRS	30KAB20CP279	30UFA06084	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST UPSTR KBA CLR	30KAB20CP280	30UFA06084	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
P TEST DNR CVCS PP SL 2	30KAB20CP292	30UFA06085	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T UPSTR FPCS HX2	30KAB20CT267	30UFA05076	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR FPCS HX2	30KAB20CT268	30UFA06075	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T TEST NSS SG3 SG4	30KAB20CT272	30UFA06083	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T TEST NSS CL3	30KAB20CT273	30UFA06082	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR FPCS HX2	30KAB20CT565	30UFA06075	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T CVCS PP2	30KAB20CT578	30UFA06084	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV UPSTR THBARR 1&2 - ACT	30KAB30AA049	31UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV DNSTR THBARR 1&2 - ACT	30KAB30AA051	30UJA11013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CIV DNSTR THBARR 1&2 - ACT	30KAB30AA052	31UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV UPSTR THBARR 3&4 - ACT	30KAB30AA053	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CIV DNSTR THBARR 3&4 - ACT	30KAB30AA055	30UJA11015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CIV DNSTR THBARR 3&4 - ACT	30KAB30AA056	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
F UPR BRG MCP1	30KAB30CF062	30UJA23002	H	H	SI	S 1E EMC	Y (1) Y (5)
F M MCP1	30KAB30CF064	30UJA18002	H	H	SI	S 1E EMC	Y (1) Y (5)
F DNR BRG MCP1	30KAB30CF066	30UJA18002	H	H	SI	S 1E EMC	Y (1) Y (5)
F THML BARR1	30KAB30CF068	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
F UPR BRG MCP2	30KAB30CF072	30UJA23005	H	H	SI	S 1E EMC	Y (1) Y (5)
F M MCP2	30KAB30CF074	30UJA18005	H	H	SI	S 1E EMC	Y (1) Y (5)
F DNR BRG MCP2	30KAB30CF076	30UJA18005	H	H	SI	S 1E EMC	Y (1) Y (5)
F THML BARR2	30KAB30CF078	30UJA11014	H	H	SI	S 1E EMC	Y (1) Y (5)
F UPR BRG MCP3	30KAB30CF082	30UJA23006	H	H	SI	S 1E EMC	Y (1) Y (5)
F M MCP3	30KAB30CF084	30UJA18006	H	H	SI	S 1E EMC	Y (1) Y (5)
F DNR BRG MCP3	30KAB30CF086	30UJA18006	H	H	SI	S 1E EMC	Y (1) Y (5)
F THML BARR3	30KAB30CF088	30UJA11015	H	H	SI	S 1E EMC	Y (1) Y (5)
F UPR BRG MCP4	30KAB30CF092	30UJA23009	H	H	SI	S 1E EMC	Y (1) Y (5)
F M MCP4	30KAB30CF094	30UJA18009	H	H	SI	S 1E EMC	Y (1) Y (5)
F DNR BRG MCP4	30KAB30CF096	30UJA18009	H	H	SI	S 1E EMC	Y (1) Y (5)
F THML BARR4	30KAB30CF098	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST UPR BRG MCP1	30KAB30CF261	30UJA23002	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST M MCP1	30KAB30CF263	30UJA18002	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST DNR BRG MCP1	30KAB30CF265	30UJA18002	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST UPR BRG MCP2	30KAB30CF271	30UJA23005	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST M MCP2	30KAB30CF273	30UJA18005	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST DNR BRG MCP2	30KAB30CF275	30UJA18005	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST UPR BRG MCP3	30KAB30CF281	30UJA23006	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST M MCP3	30KAB30CF283	30UJA18006	H	H	SI	S 1E EMC	Y (1) Y (5)
F TEST DNR BRG MCP3	30KAB30CF285	30UJA18006	H	H	SI	S 1E EMC	Y (1) Y (5)
G OPNG *KAB30AA191*	30KAB30CG191A	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
G OPNG *KAB30AA192*	30KAB30CG192A	30UJA15015	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR MCP1	30KAB30CT060	30UJA18013	H	H	SI	S 1E EMC	Y (1) Y (5)
T THML BARR 1	30KAB30CT061	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR MCP2	30KAB30CT070	30UJA18014	H	H	SI	S 1E EMC	Y (1) Y (5)
T THML BARR 2	30KAB30CT071	30UJA11014	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR MCP3	30KAB30CT080	30UJA18015	H	H	SI	S 1E EMC	Y (1) Y (5)
T THML BARR 3	30KAB30CT081	30UJA11015	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR MCP4	30KAB30CT090	30UJA18016	H	H	SI	S 1E EMC	Y (1) Y (5)
T THML BARR 4	30KAB30CT091	30UJA15009	H	H	SI	S 1E EMC	Y (1) Y (5)
CIV *KLA/KT* USERS - ACT	30KAB40AA001	31UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV *KLA/KT* USERS - ACT	30KAB40AA006	31UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV *KLA/KT* USERS - ACT	30KAB40AA012	30UJA11014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
F DNSTR RB NC COM1B	30KAB40CF055	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F UPSTR RB NC COM1B	30KAB40CF058	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F DNSTR KTA HX	30KAB40CF252	30UJA07016	H	H	SI	S 1E EMC	Y (1) Y (5)
G OPNG *KAB40AA001*	30KAB40CG001A	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB40AA001*	30KAB40CG001B	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB40AA006*	30KAB40CG006A	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
G CLS *KAB40AA006*	30KAB40CG006B	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB40AA012*	30KAB40CG012A	30UJA11014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
G CLS *KAB40AA012*	30KAB40CG012B	30UJA11014	H	H	ES SI	S 1E EMC	Y (1) Y (5)
P TEST UPSTR KAB40 USERS	30KAB40CP271	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
P TEST DNSTR KAB40 USERS	30KAB40CP272	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
T RB NC COM1B	30KAB40CT068	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
T DNSTR HVAC 12	30KAB40CT070	30UJA23013	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR HVAC 34	30KAB40CT073	30UJA23016	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR KLA CL1	30KAB40CT264	30UJA23013	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR KLA CL2	30KAB40CT265	30UJA23013	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR KLA CL3	30KAB40CT266	30UJA23016	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR KLA CL4	30KAB40CT267	30UJA23016	H	H	SI	S 1E EMC	Y (1) Y (5)
V 1 UPSTR *UKA/UKS* - ACT	30KAB50AA001	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
V DNSTR *UKA/UKS* - ACT	30KAB50AA004	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
V 2 UPSTR *UKA/UKS* - ACT	30KAB50AA006	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
F UPSTR NC COM2B	30KAB50CF050	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F DNSTR NC COM2B	30KAB50CF054	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB50AA001*	30KAB50CG001A	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB50AA001*	30KAB50CG001B	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB50AA004*	30KAB50CG004A	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB50AA004*	30KAB50CG004B	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB50AA006*	30KAB50CG006A	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB50AA006*	30KAB50CG006B	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV *KBA*, RCP 1 & 2 - ACT	30KAB60AA013	31UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV *KBA*, RCP 1 & 2 - ACT	30KAB60AA018	30UJA11013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CIV *KBA*, RCP 1 & 2 - ACT	30KAB60AA019	31UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
C-V KBA11 AC001 - ACT	30KAB60AA116	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
F DNSTR CVCS HP CL1	30KAB60CF050	30UJA07016	H	H	SI	S 1E EMC	Y (1) Y (5)
F CLASS COM1B	30KAB60CF081	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB60AA013*	30KAB60CG013A	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB60AA013*	30KAB60CG013B	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB60AA018*	30KAB60CG018A	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
G CLS *KAB60AA018*	30KAB60CG018B	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
G OPNG *KAB60AA019*	30KAB60CG019A	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB60AA019*	30KAB60CG019B	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G MEAS *KAB60AA116*	30KAB60CG116	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
G OPNG *60AA191*	30KAB60CG191A	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
G ACTY CCWS INLET	30KAB60CR001	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
G ACTY CCWS OUTLET	30KAB60CR002	30UJA11013	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR CVCS HP CL1	30KAB60CT082	30UJA07016	H	H	SI	S 1E EMC	Y (1) Y (5)
CIV *KBA*, RCP 3 & 4 - ACT	30KAB70AA013	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CIV *KBA*, RCP 3 & 4 - ACT	30KAB70AA018	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CIV *KBA*, RCP 3 & 4 - ACT	30KAB70AA019	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
C-V KBA12 AC001 - ACT	30KAB70AA116	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
F DNSTR CVCS HP CL2	30KAB70CF050	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
F CLASS COM2B	30KAB70CF081	34UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
G OPNG *KAB70AA013*	30KAB70CG013A	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB70AA013*	30KAB70CG013B	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB70AA018*	30KAB70CG018A	30UJA11016	H	H	ES SI	S 1E EMC	Y (1) Y (5)
G CLS *KAB70AA018*	30KAB70CG018B	30UJA11016	H	H	ES SI	S 1E EMC	Y (1) Y (5)
G OPNG *KAB70AA019*	30KAB70CG019A	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB70AA019*	30KAB70CG019B	34UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
G MEAS *KAB70AA116*	30KAB70CG116	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
G OPNG *70AA191*	30KAB70CG191A	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
G ACTY CCWS INLET	30KAB70CR001	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
G ACTY CCWS OUTLET	30KAB70CR002	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
T DNSTR CVCS HP CL2	30KAB70CT082	30UJA11016	H	H	SI	S 1E EMC	Y (1) Y (5)
V 1 UPSTR *QN* USERS - ACT	30KAB80AA015	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
V 2 UPSTR *QN* USERS - ACT	30KAB80AA016	31UJH10004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
F UPSTR QNA21 AC002	30KAB80CF060	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
F DNSTR KAB80 CHIL	30KAB80CF061	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB80AA015*	30KAB80CG015A	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB80AA015*	30KAB80CG015B	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G OPNG *KAB80AA016*	30KAB80CG016A	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
G CLS *KAB80AA016*	30KAB80CG016B	31UJH10004	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Essential Service Water System (ESWS)							
CCW HX Outlet Flow Measurement	30PEB30CF002	33UJH05020	M	H	ES ~~PAM~~ SI	S 1E	Y (2) Y (5)
CCW HX Outlet Flow Measurement	30PEB40CF002	34UJH05026	M	H	ES ~~PAM~~ SI	S 1E	Y (2) Y (5)
CCW HX Outlet Flow Measurement	30PEB10CF002	31UJH05026	M	H	ES ~~PAM~~ SI	S 1E	Y (2) Y (5)
CCW HX Outlet Flow Measurement	30PEB20CF002	32UJH05020	M	H	ES ~~PAM~~ SI	S 1E	Y (2) Y (5)
30PEB10 AA002 Valve Motor Actuator	30PEB10AA002	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB10 AA003 Valve Motor Actuator	30PEB10AA003	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB10 AA005 Valve Motor Actuator	30PEB10AA005	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB10 AA015 Valve Motor Actuator	30PEB10AA015	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB10 AA016 Valve Motor Actuator	30PEB10AA016	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
ESW Pump Motor Heater, Train 1	30PEB10AH500	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
ESW Pump Motor, Train 1	30PEB10AP001	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB10 AT002 Filter Motor Actuator	30PEB10AT002	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
ESW Pump Discharge Flow Indicator	30PEB10CF001	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
UHS Tower Basin Level Indicator	30PEB10CL001	31URB01003	M	M	ES SI	S 1E EMC	Y (5) Y (6)
ESW Pump Discharge Pressure Indicator	30PEB10CP002	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
ESW Pump Filter Diff Pressure Indicator	30PEB10CP003	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
ESW Pump Discharge Thermocouple	30PEB10CT001	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
SW Pump Bldg Cooler Pressure Indicator	30PEB11CP501	31UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB20 AA002 Valve Motor Actuator	30PEB20AA002	32UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB20 AA003 Valve Motor Actuator	30PEB20AA003	32UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB20 AA005 Valve Motor Actuator	30PEB20AA005	32UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB20 AA015 Valve Motor Actuator	30PEB20AA015	32UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)
30PEB20 AA016 Valve Motor Actuator	30PEB20AA016	32UQB02001	M	M	ES SI	S 1E EMC	Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)			Safety Class (Note 4)			EQ Program Designation (Note 5)			
Extra Borating System (EBS)														
EBS Outside Cont Iso Valve Actuator	30JDH10AA006	30UFA10045	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Test Line Iso Valve Actuator	30JDH10AA008	30UFA01038	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS RCS Iso Valve Actuator	30JDH10AA015	30UJA11003	H	H	ES		SI	S	1E	EMC	Y (1)		Y (5)	
EBS Pump Motor	30JDH10AP001	30UFA01038	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS RCS Iso Valve Actuator	30JDH20AA015	30UJA11005	H	H	ES		SI	S	1E	EMC	Y (1)		Y (5)	
EBS RCS Iso Valve Actuator	30JDH30AA015	30UJA11006	H	H	ES		SI	S	1E	EMC	Y (1)		Y (5)	
EBS Outside Cont Iso Valve Actuator	30JDH40AA006	30UFA10095	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Test Line Iso Valve Actuator	30JDH40AA008	30UFA01088	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS RCS Iso Valve Actuator	30JDH40AA015	30UJA11008	H	H	ES		SI	S	1E	EMC	Y (1)		Y (5)	
EBS Pump Motor	30JDH40AP001	30UFA01088	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Flow Meter	30JDH10CF058	30UFA01038	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Level Inst	30JDH10CL050	30UFA06039	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Level Inst	30JDH10CL060	30UFA06039	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Temperature Inst	30JDH10CT052	30UFA06039	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Temperature Inst	30JDH10CT062	30UFA06039	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Flow Meter	30JDH40CF058	30UFA01088	M	H	ES	PAM	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Level Inst	30JDH40CL050	30UFA06087	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Level Inst	30JDH40CL060	30UFA06087	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Temperature Inst	30JDH40CT052	30UFA06087	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
EBS Tank Temperature Inst	30JDH40CT062	30UFA06087	M	H	ES		SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Feedwater System (MFWS)														
MFW1 FUL LD I-V	30LAB60AA001	31UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
MFW1 I-V	30LAB60AA002	31UJE26001	H	H	ES	PAM	SI	S	1E	EMC	Y (1)		Y (5)	
MFW1 FUL LD C-V	30LAB60AA101	31UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
G1 MFW1 FUL LD C-V	30LAB60CG701	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G2 MFW1 FUL LD C-V	30LAB60CG702	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G3 MFW1 FUL LD C-V	30LAB60CG703	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
T2 MFW1 UPSTR I-V	30LAB60CT762	31UJE26001	H	H			SI	S	1E		Y (1)		Y (5)	
T3 MFW1 DNSTR I-V	30LAB60CT763	31UJE26001	H	H			SI	S	1E		Y (1)		Y (5)	
MFW1 LLD I-V	30LAB64AA001	31UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
MFW1 LLD C-V	30LAB64AA101	31UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
MFW1 VLLD C-V	30LAB64AA102	31UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
G1 MFW1 LLD C-V	30LAB64CG701	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G2 MFW1 LLD C-V	30LAB64CG702	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G3 MFW1 LLD C-V	30LAB64CG703	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G1 MFW1 VLLD C-V	30LAB64CG704	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G2 MFW1 VLLD C-V	30LAB64CG705	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
G3 MFW1 VLLD C-V	30LAB64CG706	31UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	
MFW2 FUL LD I-V	30LAB70AA001	32UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
MFW2 I-V	30LAB70AA002	32UJE26001	H	H	ES	PAM	SI	S	1E	EMC	Y (1)		Y (5)	
MFW2 FUL LD C-V	30LAB70AA101	32UJE26001	H	H			SI	S	1E	EMC	Y (1)		Y (5)	
G1 MFW2 FUL LD C-V	30LAB70CG701	32UJE26001	H	H			SII	NS-AQ			Y (1)		Y (5)	

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
G2 MFW2 FUL LD C-V	30LAB70CG702	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW2 FUL LD C-V	30LAB70CG703	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
T1 MFW2 DNSTR FIX PT	30LAB70CT708	32UJE26001	H	H	SI	S 1E	Y (1) Y (5)
T2 MFW2 UPSTR I-V	30LAB70CT762	32UJE26001	H	H	SI	S 1E	Y (1) Y (5)
T3 MFW2 DNSTR I-V	30LAB70CT763	32UJE26001	H	H	SI	S 1E	Y (1) Y (5)
MFW2 LLD I-V	30LAB74AA001	32UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW2 LLD C-V	30LAB74AA101	32UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW2 VLLD C-V	30LAB74AA102	32UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
G1 MFW2 LLD C-V	30LAB74CG701	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW2 LLD C-V	30LAB74CG702	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW2 LLD C-V	30LAB74CG703	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G1 MFW2 VLLD C-V	30LAB74CG704	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW2 VLLD C-V	30LAB74CG705	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW2 VLLD C-V	30LAB74CG706	32UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
MFW3 FUL LD I-V	30LAB80AA001	33UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW3 I-V	30LAB80AA002	33UJE26001	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
MFW3 FUL LD C-V	30LAB80AA101	33UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
G1 MFW3 FUL LD C-V	30LAB80CG701	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW3 FUL LD C-V	30LAB80CG702	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW3 FUL LD C-V	30LAB80CG703	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
P MFW3 ATP	30LAB80CP407	33UJE26001	H	H	SI	S 1E	Y (1) Y (5)
T1 MFW3 DNSTR FIX PT	30LAB80CT708	33UJE26001	H	H	SI	S 1E	Y (1) Y (5)
T2 MFW3 UPSTR I-V	30LAB80CT762	33UJE26001	H	H	SI	S 1E	Y (1) Y (5)
T3 MFW3 DNSTR I-V	30LAB80CT763	33UJE26001	H	H	SI	S 1E	Y (1) Y (5)
MFW3 LLD I-V	30LAB84AA001	33UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW3 LLD C-V	30LAB84AA101	33UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW3 VLLD C-V	30LAB84AA102	33UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
G1 MFW3 LLD C-V	30LAB84CG701	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW3 LLD C-V	30LAB84CG702	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW3 LLD C-V	30LAB84CG703	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G1 MFW3 VLLD C-V	30LAB84CG704	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW3 VLLD C-V	30LAB84CG705	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW3 VLLD C-V	30LAB84CG706	33UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
MFW4 FUL LD I-V	30LAB90AA001	34UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW4 I-V	30LAB90AA002	34UJE26001	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
MFW4 FUL LD C-V	30LAB90AA101	34UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
G1 MFW4 FUL LD C-V	30LAB90CG701	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW4 FUL LD C-V	30LAB90CG702	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW4 FUL LD C-V	30LAB90CG703	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
T2 MFW4 UPSTR I-V	30LAB90CT762	34UJE26001	H	H	SI	S 1E	Y (1) Y (5)
T3 MFW4 DNSTR I-V	30LAB90CT763	34UJE26001	H	H	SI	S 1E	Y (1) Y (5)
MFW4 LLD I-V	30LAB94AA001	34UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW4 LLD C-V	30LAB94AA101	34UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
MFW4 VLLD C-V	30LAB94AA102	34UJE26001	H	H	SI	S 1E EMC	Y (1) Y (5)
G1 MFW4 LLD C-V	30LAB94CG701	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW4 LLD C-V	30LAB94CG702	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
G3 MFW4 LLD C-V	30LAB94CG703	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G1 MFW4 VLLD C-V	30LAB94CG704	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G2 MFW4 VLLD C-V	30LAB94CG705	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
G3 MFW4 VLLD C-V	30LAB94CG706	34UJE26001	H	H	SII	NS-AQ	Y (1) Y (5)
Emergency Feedwater System (EFWS)							
EFW Pool Level (Wide Range) Train 1	30LAR10CL001	31UJH10026	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pool Level (Narrow Range) Train 1	30LAR10CL002	31UJH10026	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pool Level (Wide Range) Train 1	30LAR10CL003	31UJH10026	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pool Local Level Guage Train 1	30LAR10CL501	31UJH05026	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Storage Pool Temperature Train 1	30LAR10CT001	31UJH05026	M	H	SII	NS-AQ	Y (2) Y (5)
EFW SG Isolation Valve Actuator Train 1	30LAR11AA006	31UJH10010	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Flow Control Valve Actuator Train 1	30LAR11AA103	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW SG Level Control Valve Actuator Train 1	30LAR11AA105	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Flow Meter to SG Train 1	30LAR11CF002	31UJH01024	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pump Flow Meter Train 1	30LAR11CF801	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW SG Level Control Valve Position Train 1	30LAR11CG105	31UJH01024	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Flow Control Valve Position Train 1	30LAR11CG803	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pump Suction Pressure Train 1	30LAR11CP001	31UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Developed Head Train 1	30LAR11CP002	31UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Discharge Pressure Train 1	30LAR11CP003	31UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW SG Level Control Valve dP Train 1	30LAR11CP004	31UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Suction Temperature Train 1	30LAR11CT001	31UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Discharge Temperature Train 1	30LAR11CT004	31UJH10004	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Discharge Header Isolation Valve Act	30LAR14AA001	31UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Discharge Header MOV Position Train 1	30LAR14CG001A	31UJH01024	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Discharge Header MOV Position Train 1	30LAR14CG001B	31UJH01024	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pool Level (Wide Range) Train 2	30LAR20CL001	32UJH10020	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pool Level (Narrow Range) Train 2	30LAR20CL002	32UJH10020	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pool Level (Wide Range) Train 2	30LAR20CL003	32UJH10020	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pool Local Level Guage Train 2	30LAR20CL501	32UJH05020	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Storage Pool Temperature Train 2	30LAR20CT001	32UJH05020	M	H	SII	NS-AQ	Y (2) Y (5)
EFW SG Isolation Valve Actuator Train 2	30LAR21AA006	32UJH10002	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Flow Control Valve Actuator Train 2	30LAR21AA103	32UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW SG Level Control Valve Actuator Train 2	30LAR21AA105	32UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Flow Meter to SG Train 2	30LAR21CF002	32UJH01005	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pump Flow Meter Train 2	30LAR21CF801	32UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW SG Level Control Valve Position Train 2	30LAR21CG105	32UJH01024	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Flow Control Valve Position Train 2	30LAR21CG803	32UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pump Suction Pressure Train 2	30LAR21CP001	32UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Developed Head Train 2	30LAR21CP002	32UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Discharge Pressure Train 2	30LAR21CP003	32UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW SG Level Control Valve dP Train 2	30LAR21CP004	32UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Suction Temperature Train 2	30LAR21CT001	32UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Discharge Temperature Train 2	30LAR21CT004	32UJH10002	M	H	SII	NS-AQ	Y (2) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)		Safety Class (Note 4)			EQ Program Designation (Note 5)		
EFW Discharge Header Isolation Valve Act	30LAR24AA001	32UJH01024	M	H	ES	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Discharge Header MOV Position Train 2	30LAR24CG001A	32UJH01024	M	H	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Discharge Header MOV Position Train 2	30LAR24CG001B	32UJH01024	M	H	~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pool Level (Wide Range) Train 3	30LAR30CL001	33UJH10020	M	H	PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pool Level (Narrow Range) Train 3	30LAR30CL002	33UJH10020	M	H		SII	NS-AQ			Y (2)	Y (5)	
EFW Pool Level (Wide Range) Train 3	30LAR30CL003	33UJH10020	M	H	PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pool Local Level Guage Train 3	30LAR30CL501	33UJH05020	M	H		SII	NS-AQ			Y (2)	Y (5)	
EFW Storage Pool Temperature Train 3	30LAR30CT001	33UJH05024	M	H		SII	NS-AQ			Y (2)	Y (5)	
EFW SG Isolation Valve Actuator Train 3	30LAR31AA006	33UJH10002	M	H	ES	PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Flow Control Valve Actuator Train 3	30LAR31AA103	33UJH01038	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW SG Level Control Valve Actuator Train 3	30LAR31AA105	33UJH01038	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Flow Meter to SG Train 3	30LAR31CF002	33UJH01005	M	H		PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pump Flow Meter Train 3	30LAR31CF801	33UJH01038	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW SG Level Control Valve Position Train 3	30LAR31CG105	33UJH01038	M	H		~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Flow Control Valve Position Train 3	30LAR31CG803	33UJH01038	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pump Suction Pressure Train 3	30LAR31CP001	33UJH01038	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Developed Head Train 3	30LAR31CP002	33UJH01038	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Discharge Pressure Train 3	30LAR31CP003	33UJH01038	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW SG Level Control Valve dP Train 3	30LAR31CP004	33UJH01038	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Suction Temperature Train 3	30LAR31CT001	33UJH01038	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Discharge Temperature Train 3	30LAR31CT004	33UJH10002	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Discharge Header Isolation Valve Act	30LAR34AA001	33UJH01038	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Discharge Header MOV Position Train 3	30LAR34CG001A	33UJH01038	M	H		~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Discharge Header MOV Position Train 3	30LAR34CG001B	33UJH01038	M	H		~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pool Level (Wide Range) Train 4	30LAR40CL001	34UJH10026	M	H		PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pool Level (Narrow Range) Train 4	30LAR40CL002	34UJH10026	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pool Level (Wide Range) Train 4	30LAR40CL003	34UJH10026	M	H		PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pool Local Level Guage Train 4	30LAR40CL501	34UJH05026	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Storage Pool Temperature Train 4	30LAR40CT001	34UJH05026	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW SG Isolation Valve Actuator Train 4	30LAR41AA006	34UJH10004	M	H	ES	PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Flow Control Valve Actuator Train 4	30LAR41AA103	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW SG Level Control Valve Actuator Train 4	30LAR41AA105	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Flow Meter to SG Train 4	30LAR41CF002	34UJH01024	M	H		PAM	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pump Flow Meter Train 4	30LAR41CF801	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW SG Level Control Valve Position Train 4	30LAR41CG105	34UJH01024	M	H		~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Flow Control Valve Position Train 4	30LAR41CG803	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pump Suction Pressure Train 4	30LAR41CP001	34UJH01024	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Developed Head Train 4	30LAR41CP002	34UJH01024	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Discharge Pressure Train 4	30LAR41CP003	34UJH01024	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW SG Level Control Valve dP Train 4	30LAR41CP004	34UJH01024	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Suction Temperature Train 4	30LAR41CT001	34UJH01024	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Pump Discharge Temperature Train 4	30LAR41CT004	34UJH10004	M	H			SII	NS-AQ			Y (2)	Y (5)	
EFW Discharge Header Isolation Valve Act	30LAR44AA001	34UJH01024	M	H	ES		SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Discharge Header MOV Position Train 4	30LAR44CG001A	34UJH01024	M	H		~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Discharge Header MOV Position Train 4	30LAR44CG001B	34UJH01024	M	H		~~PAM~~	SI	S	1E	EMC	Y (2)	Y (5)	Y (6)
EFW Pump Motor Heater Train 1	30LAS11AH501	31UJH01021	M	H			SII	NS-AQ			Y (2)	Y (5)	

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT005	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT006	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT007	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT008A	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT008B	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT009A	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 3 Motor Winding Temperature	30LAS31CT009B	33UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Motor Heater Train 4	30LAS41AH501	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Motor Train 4	30LAS41AP001	34UJH01024	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
EFW Pump Train 4 Motor Current	30LAS41CE102	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Oil Level (Local)	30LAS41CL501	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Oil Level (Local)	30LAS41CL502	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Bearing Temperature	30LAS41CT001A	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Bearing Temperature	30LAS41CT001B	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Bearing Temperature	30LAS41CT002A	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Bearing Temperature	30LAS41CT002B	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Bearing Temperature	30LAS41CT003A	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Bearing Temperature	30LAS41CT003B	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT005	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT006	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT007	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT008A	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT008B	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT009A	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
EFW Pump Train 4 Motor Winding Temperature	30LAS41CT009B	34UJH01024	M	H	SII	NS-AQ	Y (2) Y (5)
In-containment Refueling Water Storage Tank (IRWST)							
IRWST 3-Way Isolation Valve Actuator	30JNK10AA001	31UJH01005	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
1st CVCS Suct. Iso. Valve Act. Fr IRWST	30JNK10AA009	31UJH01010	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 2 Str. Backflush Valve Actuator	30JNK10AA004	30UJA11013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 2 Str. Backflush Valve Actuator	30JNK10AA005	30UJA11013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 1 Str. Backflush Valve Actuator	30JNK10AA006	30UJA11013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 1 Str. Backflush Valve Actuator	30JNK10AA007	30UJA11013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
2nd CVCS Suct. Isol. Valve Actuator	30JNK10AA013	31UJH01010	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 3 Stra. Backflush Valve Actuator	30JNK11AA004	30UJA11015	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 3 Str.r Backflush Valve Actuator	30JNK11AA005	30UJA11015	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 4 Str.r Backflush Valve Actuator	30JNK11AA006	30UJA11016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 4 Str. Backflush Valve Actuator	30JNK11AA007	30UJA11016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
1st SAHRS Suct. Iso. Valve Act. Fr IRWST	30JNK11AA009	34UJH01010	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
IRWST 3-Way Isolation Valve Actuator	30JNK20AA001	32UJH01008	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
IRWST 3-Way Isolation Valve Actuator	30JNK30AA001	33UJH01008	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
IRWST 3-Way Isolation Valve Actuator	30JNK40AA001	34UJH01005	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS Str. 1&2 Backflush Flow	30JNK10CF501	30UJA11016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
IRWST Level Sensor - Train 1 & 2	30JNK10CL050	30UJA11013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
IRWST Level Sensor - Train 1 & 2	30JNK10CL052	30UJA11014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SIS Suction Strainer dP Sensor	30JNK10CP001	30UJA07014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SIS Suction Strainer dP Sensor	30JNK10CP002	30UJA07014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CVCS Suction Strainer dp Sensor	30JNK10CP003	30UJA07014	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SIS TRN 1 Dbl. Gd. Pipe Press. Sensor	30JNK10CP004	31UJH01004	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 2 Dbl. Gd. Pipe Press. Sensor	30JNK10CP005	32UJH05010	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
CVCS Suct. Ln. Dbl. Gd. Pipe Press. Ssr.	30JNK10CP006	31UJH10001	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 1 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK10CP504	31UJH05006	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 2 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK10CP505	32UJH01008	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
CVCS Suct. Ln. Dbl. Gd. Pipe Press. Ssr, loc.	30JNK10CP506	31UJH01010	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
IRWST Temperature Sensor	30JNK10CT054	30UJA04003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
IRWST Temperature Sensor	30JNK10CT056	30UJA04003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SIS Str. 3&4 Backflush Flow	30JNK11CF501	30UJA11016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
IRWST Level Sensor - Train 3 & 4	30JNK11CL050	30UJA11015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
IRWST Level Sensor - Train 3 & 4	30JNK11CL052	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SIS Suction Strainer dP Sensor	30JNK11CP001	30UJA07015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SIS Suction Strainer dP Sensor	30JNK11CP002	30UJA07015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SAHRS Suction Strainer dp Sensor	30JNK11CP003	30UJA07015	H	H	ES SI	S 1E EMC	Y (1)
SIS TRN 3 Dbl. Gd. Pipe Press. Sensor	30JNK11CP004	33UJH05006	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 4 Dbl. Gd. Pipe Press. Sensor	30JNK11CP005	34UJH05006	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SAHRS Suct. Ln. Dbl. Gd. Pipe Press. Ssr	30JNK11CP006	34UJH10001	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 3 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK11CP504	33UJH01008	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SIS TRN 4 Dbl. Gd. Pipe Press. Sensor, loc.	30JNK11CP505	34UJH05006	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
SAHRS Suct. Ln. Dbl. Gd. Pipe Pres. Ssr, loc.	30JNK11CP506	34UJH01010	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
IRWST Temperature Sensor	30JNK11CT054	30UJA04003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
IRWST Temperature Sensor 16-212	30JNK11CT056	30UJA04003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Main Steam System (MSS)							
MSIV TRN1 UPSTR D-V	30LBA10AA441	31UJE29002	H	M	PAM SI	S 1E EMC	Y (1) Y (5)
MSIV TRN1 DNSTR D-V	30LBA10AA442	31UJE29002	H	M	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MSIV TRN1 2ND D-V	30LBA10AA444	31UJE29002	H	M	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MSRCV TRN 1	30LBA13AA101	31UJE29002	H	M	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSIV BYP LN I-V TRN1	30LBA14AA001	31UJE29002	H	M	PAM SI	S 1E EMC	Y (1) Y (5)
MSIV BYP LN C-V TRN1	30LBA14AA101	31UJE29002	H	M	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MSIV TRN2 UPSTR D-V	30LBA20AA441	32UJE29002	H	M	PAM SI	S 1E EMC	Y (1) Y (5)
MSIV TRN1	30LBA10AA002	31UJE34002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSRIV TRN1	30LBA13AA001	31UJE29002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSIV TRN2	30LBA20AA002	32UJE34002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSRIV TRN2	30LBA23AA001	32UJE29002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSIV TRN3	30LBA30AA002	33UJE34002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSRIV TRN3	30LBA33AA001	33UJE29002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSIV TRN4	30LBA40AA002	34UJE34002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSRIV TRN4	30LBA43AA001	34UJE29002	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
MSIV TRN2 DNSTR D-V	30LBA20AA442	32UJE29002	H	M	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MSIV TRN2 2ND D-V	30LBA20AA444	32UJE29002	H	M	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
MSRV TRN 2	30LBA23AA101	32UJE29002	H	M	RT ES PAM SI	S 1E EMC	Y (1) Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
MSIV BYP LN I-V TRN2	30LBA24AA001	32UJE29002	H	M	PAM	SI S 1E EMC	Y (1) Y (5)
MSIV BYP LN C-V TRN2	30LBA24AA101	32UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
MSIV TRN3 UPSTR D-V	30LBA30AA441	33UJE29002	H	M	PAM	SI S 1E EMC	Y (1) Y (5)
MSIV TRN3 DNSTR D-V	30LBA30AA442	33UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
MSIV TRN3 2ND D-V	30LBA30AA444	33UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
MSRV TRN 3	30LBA33AA101	33UJE29002	H	M	RT ES PAM	SI S 1E EMC	Y (1) Y (5)
MSIV BYP LN I-V TRN3	30LBA34AA001	33UJE29002	H	M	PAM	SI S 1E EMC	Y (1) Y (5)
MSIV BYP LN C-V TRN3	30LBA34AA101	33UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
MSIV TRN4 UPSTR D-V	30LBA40AA441	34UJE29002	H	M	PAM	SI S 1E EMC	Y (1) Y (5)
MSIV TRN4 DNSTR D-V	30LBA40AA442	34UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
MSIV TRN4 2ND D-V	30LBA40AA444	34UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
MSRV TRN 4	30LBA43AA101	34UJE29002	H	M	RT ES PAM	SI S 1E EMC	Y (1) Y (5)
MSIV BYP LN I-V TRN4	30LBA44AA001	34UJE29002	H	M	PAM	SI S 1E EMC	Y (1) Y (5)
MSIV BYP LN C-V TRN4	30LBA44AA101	34UJE29002	H	M	~~PAM~~	SI S 1E EMC	Y (1) Y (5)
P MSL TRN1 ATP	30LBA10CP401	31UJE28001	H	H		SII NS-AQ	Y (1) Y (5)
P MSL TRN1 1	30LBA10CP811	31UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
P MSL TRN1 2	30LBA10CP821	31UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
P MSL TRN1 3	30LBA10CP831	32UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
P MSL TRN1 4	30LBA10CP841	32UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 1	30LBA10CR811	31UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 1	30LBA10CR821	31UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 1	30LBA10CR831	31UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 1	30LBA10CR841	31UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
T MSL TRN1 LOCL	30LBA10CT002	31UJE34002	H	M		SII NS-AQ	Y (1) Y (5)
T MSL TRN1 ATP	30LBA10CT401	31UJE28001	H	H		SII NS-AQ	Y (1) Y (5)
G CLS 1ST MSSV TRN1	30LBA11CG191	31UJE34002	H	M		SI S 1E	Y (1) Y (5)
G CLS 2ND MSSV TRN1	30LBA12CG191	31UJE34002	H	M		SI S 1E	Y (1) Y (5)
G1 MSRCV TRN1	30LBA13CG807	31UJE29002	H	M	ES ~~PAM~~	SI S 1E	Y (1) Y (5)
G2 MSRCV TRN1	30LBA13CG808	31UJE29002	H	M	ES ~~PAM~~	SI S 1E	Y (1) Y (5)
G3 MSRCV TRN1	30LBA13CG809	31UJE29002	H	M	ES ~~PAM~~	SI S 1E	Y (1) Y (5)
P DNSTR MSRV1 ATP	30LBA13CP401	31UJE29002	H	M		SII NS-AQ	Y (1) Y (5)
G MSIV1 BYP LN C-V	30LBA14CG101	31UJE29002	H	M		SII NS-AQ	Y (1) Y (5)
P MSL TRN2 ATP	30LBA20CP401	31UJE28001	H	H		SII NS-AQ	Y (1) Y (5)
P MSL TRN2 1	30LBA20CP811	31UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
P MSL TRN2 2	30LBA20CP821	31UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
P MSL TRN2 3	30LBA20CP831	32UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
P MSL TRN2 4	30LBA20CP841	32UJE28001	H	H	RT ES PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 2	30LBA20CR811	32UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 2	30LBA20CR821	32UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 2	30LBA20CR831	32UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 2	30LBA20CR841	32UJE28001	H	H	PAM	SI S 1E	Y (1) Y (5)
T MSL TRN2 LOCL	30LBA20CT002	32UJE34002	H	M		SII NS-AQ	Y (1) Y (5)
T MSL TRN2 ATP	30LBA20CT401	32UJE28001	H	H		SII NS-AQ	Y (1) Y (5)
G CLS 1ST MSSV TRN2	30LBA21CG191	32UJE34002	H	M		SI S 1E	Y (1) Y (5)
G CLS 2ND MSSV TRN2	30LBA22CG191	32UJE34002	H	M		SI S 1E	Y (1) Y (5)
G1 MSRCV TRN2	30LBA23CG807	32UJE29002	H	M	ES ~~PAM~~	SI S 1E	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
G2 MSRCV TRN2	30LBA23CG808	32UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
G3 MSRCV TRN2	30LBA23CG809	32UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
P DNSTR MSRV2 ATP	30LBA23CP401	32UJE29002	H	M	SII	NS-AQ	Y (1) Y (5)
G MSIV2 BYP LN C-V	30LBA24CG101	32UJE29002	H	M	SII	NS-AQ	Y (1) Y (5)
P MSL TRN3 ATP	30LBA30CP401	33UJE28001	H	H	SII	NS-AQ	Y (1) Y (5)
P MSL TRN3 1	30LBA30CP811	33UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
P MSL TRN3 2	30LBA30CP821	33UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
P MSL TRN3 3	30LBA30CP831	34UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
P MSL TRN3 4	30LBA30CP841	34UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 3	30LBA30CR811	33UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 3	30LBA30CR821	33UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 3	30LBA30CR831	33UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 3	30LBA30CR841	33UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
T MSL TRN3 LOCL	30LBA30CT002	33UJE33002	H	M	SII	NS-AQ	Y (1) Y (5)
T MSL TRN3 ATP	30LBA30CT401	33UJE28001	H	H	SII	NS-AQ	Y (1) Y (5)
G CLS 1ST MSSV TRN3	30LBA31CG191B	33UJE33002	H	M	SI	S 1E	Y (1) Y (5)
G CLS 2ND MSSV TRN3	30LBA32CG191B	33UJE33002	H	M	SI	S 1E	Y (1) Y (5)
G1 MSRCV TRN3	30LBA33CG807	33UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
G2 MSRCV TRN3	30LBA33CG808	33UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
G3 MSRCV TRN3	30LBA33CG809	33UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
P DNSTR MSRV3 ATP	30LBA33CP401	33UJE29002	H	M	SII	NS-AQ	Y (1) Y (5)
G MSIV3 BYP LN C-V	30LBA34CG101	33UJE29002	H	M	SII	NS-AQ	Y (1) Y (5)
P MSL TRN4 ATP	30LBA40CP401	34UJE28001	H	H	SII	NS-AQ	Y (1) Y (5)
P MSL TRN4 1	30LBA40CP811	33UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
P MSL TRN4 2	30LBA40CP821	33UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
P MSL TRN4 3	30LBA40CP831	34UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
P MSL TRN4 4	30LBA40CP841	34UJE28001	H	H	RT ES PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 4	30LBA40CR811	34UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 4	30LBA40CR821	34UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 4	30LBA40CR831	34UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
N16 ACTY MS LOOP 4	30LBA40CR841	34UJE28001	H	H	PAM SI	S 1E	Y (1) Y (5)
T MSL TRN4 LOCL	30LBA40CT002	34UJE33002	H	M	SII	NS-AQ	Y (1) Y (5)
T MSL TRN4 ATP	30LBA40CT401	34UJE28001	H	H	SII	NS-AQ	Y (1) Y (5)
G CLS 1ST MSSV TRN4	30LBA41CG191B	34UJE33002	H	M	SI	S 1E	Y (1) Y (5)
G CLS 2ND MSSV TRN4	30LBA42CG191B	34UJE33002	H	M	SI	S 1E	Y (1) Y (5)
G1 MSRCV TRN4	30LBA43CG807	34UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
G2 MSRCV TRN4	30LBA43CG808	34UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
G3 MSRCV TRN4	30LBA43CG809	34UJE29002	H	M	ES ~~PAM~~ SI	S 1E	Y (1) Y (5)
P DNSTR MSRV4 ATP	30LBA43CP401	34UJE29002	H	M	SII	NS-AQ	Y (1) Y (5)
G MSIV4 BYP LN C-V	30LBA44CG101	34UJE29002	H	M	SII	NS-AQ	Y (1) Y (5)
Steam Generator Blowdown System (SGBS)							
Hot leg BD I-V motor #1	30LCQ10AA001	30UJA15003	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Cold leg BD I-V #1 motor	30LCQ10AA002	30UJA15003	H	H	ES SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
common BD I-V #1 motor	30LCQ10AA003	30UJA11018	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG transfer valve 1<->2 motor	30LCQ10AA012	30UJA23004	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#1 BD flowrate control valve motor	30LCQ10AA104	30UJA11018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG #1 hotleg BD sampling I-V motor	30LCQ10AA601	30UJA15013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG #1 coldleg BD sampling I-V motor	30LCQ10AA602	30UJA15013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG1 BD flow rate sensor	30LCQ10CF001	30UJA11013	H	H	SII	NS-AQ EMC	Y(1) Y (5)
position of SG1 BD flowrate ctrl valve	30LCQ10CG104	30UJA11018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SG1 BD temperature sensor	30LCQ10CT001	30UJA11003	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Hot leg BD I-V #2 motor	30LCQ20AA001	30UJA15004	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Cold leg BD I-V #2 motor	30LCQ20AA002	30UJA15004	H	H	ES SI	S 1E EMC	Y (1) Y (5)
Common BD I-V #2 motor	30LCQ20AA003	30UJA11018	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG#2 BD flowrate control valve motor	30LCQ20AA104	30UJA11018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#2 Hot leg BD sampling I-V motor	30LCQ20AA601	30UJA15014	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#2 cold leg BD sampling I-V motor	30LCQ20AA602	30UJA15014	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG2 BD flow rate sensor	30LCQ20CF001	30UJA11005	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Position of SG2 BD flowrate ctrl valve	30LCQ20CG104	30UJA11018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SG2 BD temperature sensor	30LCQ20CT001	30UJA11014	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SG#3 hot leg BD I-V motor	30LCQ30AA001	30UJA15007	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG#3 cold leg BD I-V motor	30LCQ30AA002	30UJA15007	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG#3 common BD I-V motor	30LCQ30AA003	30UJA11018	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG transfer I-V 3<->4 #1 motor	30LCQ30AA012	30UJA23007	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG transfer I-V 3<->4 motor	30LCQ30AA012	30UJA23007	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#3 BD flowrate control valve motor	30LCQ30AA104	30UJA11018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#3 hotleg BD sampling I-V motor	30LCQ30AA601	30UJA15015	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#3 coldleg BD sampling I-V motor	30LCQ30AA602	30UJA15015	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG3 BD flow rate sensor	30LCQ30CF001	30UJA11006	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Position of SG3 BD flowrate ctrl valve	30LCQ30CG104	30UJA11018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SG3 BD temperature sensor	30LCQ30CT001	30UJA11007	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SG#4 hot leg BD I-V motor	30LCQ40AA001	30UJA15008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG#2 cold leg BD I-V motor	30LCQ40AA002	30UJA15008	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG#4 common BD I-V motor	30LCQ40AA003	30UJA11018	H	H	ES SI	S 1E EMC	Y (1) Y (5)
SG#4 BD flowrate control valve motor	30LCQ40AA104	30UJA11018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#4 hot leg BD sampling I-V motor	30LCQ40AA601	30UJA15016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG#4 cold leg BD sampling I-V motor	30LCQ40AA602	30UJA15016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
SG4 BD flow rate sensor	30LCQ40CF001	30UJA11008	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Position of SG4 BD flowrate ctrl valve	30LCQ40CG104	30UJA11018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SGBD flash tank level sensor 1	30LCQ50CL001	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SGBD flash tank level sensor 2	30LCQ50CL002	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SGBD flash tank pressure sensor 1	30LCQ50CP001	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
SGBD flash tank pressure sensor 2	30LCQ50CP002	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
BD demin supply inside C I-V motor	30LCQ51AA002	30UJA07015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
BD demin supply outer C I-V motor	30LCQ51AA003	34UJH05004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Flash tank drain valve motor	30LCQ51AA401	30UJA07018	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Flash tank temperature sensor	30LCQ51CT001	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
1stS.SGBD cooler outlet temp sensor #1	30LCQ51CT002	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
1stS. SGBD cooler outlet temp sensor #2	30LCQ51CT003	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
SGBD flash tank drain thermalwell	30LCQ51CT501	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
1stS. SGBD cooler outlet thermalwell	30LCQ51CT502	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Thermal well within 1stS. SGBD cooler	30LCQ51CT550	30UJA07018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
BD flashed steam inner C I-V motor	30LCQ52AA001	30UJA34014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
BD flashed steam outer C I-V motor	30LCQ52AA002	32UJE34003	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SGBD FT safety valve position	30LCQ52CG191	30UJA11018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Temp sensor downstream SGBD FT safety V.	30LCQ52CT100	30UJA11018	H	H	SII	NS-AQ EMC	Y(1) Y (5)
Chemical & Volume Control System (CVCS)							
KBA							
RCS Pressure Boundary Isolation Valve Ac	30KBA10AA001	30UJA11002	H	H	SI	S 1E EMC	Y (1) Y (5)
RCS Pressure Boundary Isolation Valve Ac	30KBA10AA002	30UJA11022	H	H	SI	S 1E EMC	Y (1) Y (5)
#1 HP Reducing Station Control Valve Pos	30KBA11CG102	30UJA07028	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
#2 HP Reducing Station Control Valve Pos	30KBA12CG102	30UJA07029	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Containment Isolation Valve Actuator	30KBA14AA002	30UJA07016	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Containment Isolation Valve Actuator	30KBA14AA003	30UFA06095	M	H	PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Letdown Line Flow Transmitter	30KBA14CF751A	30UFA01084	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Letdown Line Flow Transmitter	30KBA14CF751B	30UFA01084	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Letdown Line Flow Transmitter	30KBA14CF752	30UFA01084	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
LP Reducing Station Control Valve Positi	30KBA14CG106	30UFA06095	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
VCT Level Transmitter	30KBA20CL750	30UFA10084	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
VCT Level Transmitter	30KBA20CL751	30UFA06084	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
VCT Level Transmitter	30KBA20CL752	30UFA10084	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
VCT Boron Dilution Isolation Valve Actua	30KBA21AA001	30UFA06086	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Suction Bor Dil Iso Vlv Ac	30KBA21AA009	30UFA06036	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Letdown Line Boron Dilution Iso Vlv Act	30KBA25AA017	30UFA10082	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
CHARGING OUTSIDE CONTAINMENT ISOLATION V	30KBA34AA002	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Line Isolation Valve Actuator	30KBA34AA012	30UJA11022	H	H	SI	S 1E EMC	Y(1) Y (5)
Charging Header Flow Control Valve Actua	30KBA34AA101	30UFA01033	M	M	~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
Charging Pump Discharge Flow Transmitter	30KBA34CF851A	30UFA01033	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Flow Transmitter	30KBA34CF851B	30UFA01033	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Flow Transmitter	30KBA34CF852A	30UFA01033	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Flow Transmitter	30KBA34CF852B	30UFA01033	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Boron Concentration Measurement Transmit	30KBA34CQ857A	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Boron Concentration Measurement Transmit	30KBA34CQ857B	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Boron Concentration Measurement Transmit	30KBA34CQ858A	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Boron Concentration Measurement Transmit	30KBA34CQ858B	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Temperature Tran	30KBA34CT857A	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Temperature Tran	30KBA34CT857B	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Temperature Tran	30KBA34CT858A	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Charging Pump Discharge Temperature Tran	30KBA34CT858B	30UFA01033	M	H	SI	S 1E EMC	Y (2) Y (5) Y (6)
Pressurizer Auxiliary Spray Isolation Va	30KBA35AA001	30UJA11022	H	H	SI	S 1E EMC	Y(1) Y (5)
JEW							
RCP Seal Water Injection Outside Cont. I	30JEW01AA005	30UFA06045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
RCP Seal Water Leakoff Inside Containmen	30JEW50AA001	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
RCP Seal Water Leakoff Outside Containme	30JEW50AA002	30UFA06045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Auxiliary Systems							
Nuclear Sampling System (NSS)							
PRESSURIZER SAMPLE VLV ACTUATOR	30KUA20AA001	30UJB05003	M	M	SI	S 1E EMC	Y (5) Y (6)
PRESSURIZER INNER CONT ISO VLV ACTUATOR	30KUA20AA002	30UJB05003	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
PRESSURIZER OUTER ISO CONT VLV ACTUATOR	30KUA20AA003	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
RCS CL3 ISO VLV ACTUATOR	30KUA30AA002	30UJB05003	M	M	SI	S 1E EMC	Y (5) Y (6)
RCS CL3 INNER CONT ISO VLV ACTUATOR	30KUA30AA003	30UJB05003	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
RCS CL3 OUTER CONT ISO VLV ACTUATOR	30KUA30AA004	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
INNER CONT ISO VLV ACTUATOR	30KUB10AA001	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
OUTER CONT ISO VLV ACTUATOR	30KUB10AA002	30UFA10095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
RCS HL1 ISO VLV ACTUATOR	30KUA10AA002	30UJA18003	H	H	SI	S 1E EMC	Y (1) Y (5)
RCS HL1 INNER CONT ISO VLV ACTUATOR	30KUA10AA003	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
RCS HL1 OUTER ISO CONT VLV ACTUATOR	30KUA10AA004	30UFA06045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CONT ISO VLV OUTSIDE CONT ACTUATOR	30KUL51AA002	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CONT ISO VLV CONT ATMO ACTUATOR	30KUL51AA003	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CONT ISO VLV ACTUATOR	30KUL52AA002	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CONT ISO VLV ACTUATOR	30KUL52AA003	34UJH10004	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Sampling Activity Monitoring Systems (SAMS)							
Fuel Bldg Ventilation System Gamma Activity Monitor	30KLK38CR001	30UFA29015	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
Fuel Bldg Ventilation System Gamma Activity Monitor	30KLK38CR002	30UFA29015	M	H	ES SI	S 1E EMC	Y (2) Y (5) Y (6)
Main Control Room Vent Duct Gamma Activity Monitor	30KLK65CR001	32UJK31018	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Main Control Room Vent Duct Gamma Activity Monitor	30KLK66CR001	32UJK31018	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Main Control Room Vent Duct Gamma Activity Monitor	30KLK65CR002	32UJK31018	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Main Control Room Vent Duct Gamma Activity Monitor	30KLK66CR002	32UJK31018	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Annulus Ventilation System Gamma Activity Monitor	30KLK21CR001	30UFA24045	M	H	PAM SI	NS-AQ EMC	Y (2) Y (5) Y (6)
Annulus Ventilation System Gamma Activity Monitor	30KLK21CR002	30UFA24045	M	H	PAM SI	NS-AQ EMC	Y (2) Y (5) Y (6)
Safeguard Building Controlled-Area Ventilation System Gamma Activity Monitor	30KLK37CR001	30UFA	M	H	PAM SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Safeguard Building Controlled-Area Ventilation System Gamma Activity Monitor	30KLK37CR002	30UFA	M	H	PAM SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Emergency Diesel Generator Set (EDG)							
Cooling water system valve actuators	30XJG10AA	31UBP01001	M	M	SI	S 1E EMC	Y (5) Y (6)
Cooling water system valve actuators	30XJG20AA	32UBP01001	M	M	SI	S 1E EMC	Y (5) Y (6)
Cooling water system valve actuators	30XJG30AA	33UBP01001	M	M	SI	S 1E EMC	Y (5) Y (6)
Cooling water system valve actuators	30XJG40AA	34UBP01001	M	M	SI	S 1E EMC	Y (5) Y (6)
Fuel oil system valve actuators	30XJN10AA	31UBP01001	M	M	SI	S 1E EMC	Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
33BUW51 DC/DC Converter	33BUW51GR001	33UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BUW51 DC/DC Converter	33BUW51GU0	33UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BUW53 DC/DC Converter	33BUW53GR001	33UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BUW53 DC/DC Converter	33BUW53GU0	33UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BUW56 DC/DC Converter	33BUW56GR001	33UBP10002	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BUW56 DC/DC Converter	33BUW56GU0	33UBP10002	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BUW57 DC/DC Converter	33BUW57GU0	33UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BGA01 120 V PANELBOARD	34BGA01GW001	34UJK18027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRA 480 V Bus (MCC)	34BRA00GW001	34UJK18027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRA 480 V Bus (MCC)	34BRAGW0	34UJK18026	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRU01 Inverter	34BRU01GU0	34UJK14028	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRU01 Inverter	34BRU01GU001	34UJK14027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRW70 AC/DC Converter	34BRW70GR0	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRW70 AC/DC Converter	34BRW70GR001	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRW72 AC/DC Converter	34BRW72GR0	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRW72 AC/DC Converter	34BRW72GR001	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRW76 AC/DC Converter	34BRW76GR0	34UBP10002	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BRW76 AC/DC Converter	34BRW76GR001	34UBP10002	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BTD01 Battery	34BTD01GR0	34UJK14028	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BTD01 Battery	34BTD01GR001	34UJK14028	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BTP01 Standby Battery Charger	34BTP01GR0	34UJK14028	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BTP01 Battery Charger	34BTP01GR001	34UJK14027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BTP02 Battery Charger	34BTP02GR0	34UJK14028	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BTP02 Battery Charger	34BTP02GR001	34UJK14027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUC 250 VDC Bus (Switchboard)	34BUC00GW001	34UJK14027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUC 250 VDC Bus (Switchboard)	34BUCGW0	34UJK14028	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUW71 DC/DC Converter	34BUW71GR001	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUW71 DC/DC Converter	34BUW71GU0	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUW73 DC/DC Converter	34BUW73GR001	34UJK18025	M	M 16-212	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUW73 DC/DC Converter	34BUW73GU0	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUW76 DC/DC Converter	34BUW76GR001	34UBP10002	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BUW76 DC/DC Converter	34BUW76GU0	34UBP10002	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
Emergency Power Supply (EPSS)							
34BNB02 480 V Bus (MCC)	34BNB02GW0	34UJK18026	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BDA 6.9 kV Bus (Switchgear)	31BDA01GS0	31UJK18026	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
31BDB 6.9 kV Bus (Switchgear)	31BDB01GS0	31UJK18027	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BDC 6.9 kV Bus (Switchgear)	31BDC01GS0	31UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BDD 6.9 kV Bus (Switchgear)	31BDD01GS0	31UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
31BMA 480 V Bus (Load Center)	31BMA01GS0	31UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
31BMB 480 V Bus (Load Center)	31BMB01GS0	31UJK18027	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BMC 480 V Bus (Load Center)	31BMC01GS0	31UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BMD 480 V Bus (Load Center)	31BMD01GS0	31UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
31BNA01 480 V Bus (MCC)	31BNA01GW0	31UBP05003	M	M	SI	S 1E EMC	Y (5) Y (6)
31BNA02 480 V Bus (MCC)	31BNA02GW0	31UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
31BNB01 480 V Bus (MCC)	31BNB01GW0	31UJK18026	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BNB02 480 V Bus (MCC)	31BNB02GW0	31UJK18026	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BNB03 480 V Bus (MCC)	31BNB03GW0	31UJK18026	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BNC01 480 V Bus (MCC)	31BNC01GW0	31UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
31BND01 480 V Bus (MCC)	31BND01GW0	31UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
31BNT01 480V to 480 V (Reg. XFMR)	31BNT01GT0	31UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BDA 6.9 kV Bus (Switchgear)	32BDA01GS0	32UJK18020	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
32BDB 6.9 kV Bus (Switchgear)	32BDB01GS0	32UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BDD 6.9 kV Bus (Switchgear)	32BDD01GS0	32UQB02001	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BMA 480 V Bus (Load Center)	32BMA01GS0	32UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BMB 480 V Bus (Load Center)	32BMB01GS0	32UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BMD 480 V Bus (Load Center)	32BMD01GS0	32UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
32BNA01 480 V Bus (MCC)	32BNA01GW0	32UBP05003	M	M	SI	S 1E EMC	Y (5) Y (6)
32BNA02 480 V Bus (MCC)	32BNA02GW0	32UJK18020	M	M	SI	S 1E EMC	Y (5) Y (6)
32BNB01 480 V Bus (MCC)	32BNB01GW0	32UJK18020	M	M	SI	S 1E EMC	Y (5) Y (6)
32BNB02 480 V Bus (MCC)	32BNB02GW0	32UJK18020	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BNB03 480 V Bus (MCC)	32BNB03GW0	32UJK18020	M	M	ES SI	S 1E EMC	Y (5) Y (6)
32BND01 480 V Bus (MCC)	32BND01GW0	32UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
34BNB03 480 V Bus (MCC)	34BNB03GW0	34UJK18026	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BNC01 480 V Bus (MCC)	34BNC01GW0	34UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
32BMT01 6.9 kV to 480 V Bus (XFMR)	32BMT01GT0	32UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BMT02 6.9 kV to 480 V Bus (XFMR)	32BMT02GT0	32UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
32BMT04 6.9 kV to 480 V Bus (XFMR)	32BMT04GT0	32UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
32BNT01 480V to 480 V (Reg. XFMR)	32BNT01GT0	32UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BDA 6.9 kV Bus (Switchgear)	33BDA01GS0	33UJK18020	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BDB 6.9 kV Bus (Switchgear)	33BDB01GS0	33UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BDD 6.9 kV Bus (Switchgear)	33BDD01GS0	33UQB02001	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BMA 480 V Bus (Load Center)	33BMA01GS0	33UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BMB 480 V Bus (Load Center)	33BMB01GS0	33UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BMD 480 V Bus (Load Center)	33BMD01GS0	33UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
33BNA01 480 V Bus (MCC)	33BNA01GW0	33UBP05003	M	M	SI	S 1E EMC	Y (5) Y (6)
33BNA02 480 V Bus (MCC)	33BNA02GW0	33UJK18020	M	M	SI	S 1E EMC	Y (5) Y (6)
33BNB01 480 V Bus (MCC)	33BNB01GW0	33UJK18020	M	M	SI	S 1E EMC	Y (5) Y (6)
33BNB02 480 V Bus (MCC)	33BNB02GW0	33UJK18020	M	M	ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BNB03 480 V Bus (MCC)	33BNB03GW0	33UJK18020	M	M	ES SI	S 1E EMC	Y (5) Y (6)
33BND01 480 V Bus (MCC)	33BND01GW0	33UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
33BMT01 6.9 kV to 480 V Bus (XFMR)	33BMT01GT0	33UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BMT02 6.9 kV to 480 V Bus (XFMR)	33BMT02GT0	33UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
33BMT04 6.9 kV to 480 V Bus (XFMR)	33BMT04GT0	33UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
33BNT01 480V to 480 V (Reg. XFMR)	33BNT01GT0	33UJK18020	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BDA 6.9 kV Bus (Switchgear)	34BDA01GS0	34UJK18026	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BDB 6.9 kV Bus (Switchgear)	34BDB01GS0	34UJK18027	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BDC 6.9 kV Bus (Switchgear)	34BDC01GS0	34UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BDD 6.9 kV Bus (Switchgear)	34BDD01GS0	34UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
34BMA 480 V Bus (Load Center)	34BMA01GS0	34UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
34BMB 480 V Bus (Load Center)	34BMB01GS0	34UJK18027	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
34BMC 480 V Bus (Load Center)	34BMC01GS0	34UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BMD 480 V Bus (Load Center)	34BMD01GS0	34UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
34BNA01 480 V Bus (MCC)	34BNA01GW0	34UBP05003	M	M	SI	S 1E EMC	Y (5) Y (6)
34BNA02 480 V Bus (MCC)	34BNA02GW0	34UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
34BND01 480 V Bus (MCC)	34BND01GW0	34UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
34BNB01 480 V Bus (MCC)	34BNB01GW0	34UJK18026	M	M	ES SI	S 1E EMC	Y (5) Y (6)
34BNT01 480V to 480 V (Reg. XFMR)	34BNT01GT0	34UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BMT01 6.9 kV to 480 V (XFMR)	31BMT01GT0	31UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
31BMT02 6.9 kV to 480 V (XFMR)	31BMT02GT0	31UJK18027	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BMT03 6.9 kV to 480 V (XFMR)	31BMT03GT0	31UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
31BMT04 6.9 kV to 480 V (XFMR)	31BMT04GT0	31UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
34BMT02 6.9 kV to 480 V Bus (XFMR)	34BMT02GT0	34UJK18027	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BMT03 6.9 kV to 480 V Bus (XFMR)	34BMT03GT0	34UJK18026	M	M	RT ES ~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
34BMT04 6.9 kV to 480 V Bus (XFMR)	34BMT04GT0	34UQB02001	M	M	SI	S 1E EMC	Y (5) Y (6)
34BMT01 6.9 kV to 480 V Bus (XFMR)	34BMT01GT0	34UJK18026	M	M	SI	S 1E EMC	Y (5) Y (6)
Non-Class 1E Uninterruptible Power Supply (NUPS)							
As a Result of the EQ Program Screening No Components in this System were Identifed for EQ.							
Lighting & Small Power System (LGT)							
31BGT01 480 V to 120 V Transformer	31BGT01GW001	31UJK18027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
32BGT01 480 V to 120 V Transformer	32BGT01GW001	32UJK18020	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
33BGT01 480 V to 120 V Transformer	33BGT01GW001	33UJK18020	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
34BGT01 480 V to 120 V Transformer	34BGT01GW001	34UJK18027	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
Normal Power Supply (NPSS)							
As a Result of the EQ Program Screening No Components in this System were Identifed for EQ.							
12-Hour Uninterruptible Power Supply (12UPS)							
As a Result of the EQ Program Screening No Components in this System were Identifed for EQ.							
Instrumentation and Control Systems							
Protection System (PS)							
PS Division 1 Cabinets	30CLE	31UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
PS Division 2 Cabinets	30CLF	32UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
PS Division 3 Cabinets	30CLG	33UJK18004	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)
PS Division 4 Cabinets	30CLH	34UJK18025	M	M	RT ES PAM SI	S 1E EMC	Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Safety Automation System (SAS)							
SAS Cabinets Division 1	30DRA1	31UJK18025	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SAS Cabinets Division 2	30DRA2	32UJK18004	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SAS Cabinets Division 3	30DRA3	33UJK18004	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SAS Cabinets Division 4	30DRA4	34UJK18025	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
Priority & Actuator Control System (PACS)							
PACS Division 1 Cabinets	30CLE6	31UJK18025	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
PACS Division 2 Cabinets	30CLF6	32UJK18004	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
PACS Division 3 Cabinets	30CLG6	33UJK18004	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
PACS Division 4 Cabinets	30CLH6	34UJK18025	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
Safety Information & Control System (SICS)							
SICS Cabinets Division 1	30CWY1	31UJK18025	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS Cabinets Division 2	30CWY2	32UJK18004	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS Cabinets Division 3	30CWY3	33UJK18004	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS Cabinets Division 4	30CWY4	34UJK18025	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS Cabinets MCR	N/A	32UJK26030	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS Cabinets RSS	N/A	33UJK22030	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS QDS Units MCR	N/A	32UJK26030	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
SICS QDS Units RSS	N/A	33UJK22030	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
Reactor Trip Button Division 1	30JRE00CH100	32UJK26030	M	M	RT SI	S 1E EMC	Y (5) Y (6)
Reactor Trip Button Division 2	30JRF00CH100	32UJK26030	M	M	RT SI	S 1E EMC	Y (5) Y (6)
Reactor Trip Button Division 3	30JRG00CH100	32UJK26030	M	M	RT SI	S 1E EMC	Y (5) Y (6)
Reactor Trip Button Division 4	30JRH00CH100	32UJK26030	M	M	RT SI	S 1E EMC	Y (5) Y (6)
Incore Instrumentation System (ICIS)							
SPND Conditioning Cabinet (Div 1)	30CLE12GH001	31UJK18025	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 1)	30CLE15GH	31UJK18025	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 2)	30CLF12GH002	32UJK18004	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 2)	30CLF15GH	32UJK18004	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 3)	30CLG12GH003	33UJK18004	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 3)	30CLG15GH	33UJK18004	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 4)	30CLH12GH004	34UJK18025	M	M	RT SI	S 1E EMC	Y (5) Y (6)
SPND Conditioning Cabinet (Div 4)	30CLH15GH	34UJK18025	M	M	RT SI	S 1E EMC	Y (5) Y (6)
AMS Computer Cabinet	30CNC01GH004	32UJK26002	M	M	SI	S 1E EMC	Y (5) Y (6)
AMS Control Cabinet	30CNN01GH001	30UJA23042	H	H	16-212 SI	S 1E EMC	Y (1) Y (5)
AMS Load Cabinet	30CNN02GH002	30UJA23042	H	H	SI	S 1E EMC	Y (1) Y (5)
AMS Instrumentation Cabinet	30CNN03GH003	30UJA23041	H	H	SI	S 1E EMC	Y (1) Y (5)
Position L17 (Dome Middle)	30JKS10CT091	30UJA15001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Position L17 (Dome Bottom)	30JKS10CT092	30UJA15001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Core Outlet Thermocouple	30JKS16CT812	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS16CT813	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS16CX811	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS16CX812	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS16CX813	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS16CX814	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS16CX815	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS16CX816	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS21CT811	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS21CT812	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS21CT813	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS21CX811	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS21CX812	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS21CX813	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS21CX814	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS21CX815	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS21CX816	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS22CT831	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS22CT832	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS22CT833	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS22CX831	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS22CX832	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS22CX833	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS22CX834	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS22CX835	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS22CX836	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Position G1 (Dome Middle)	30JKS30CT091	30UJA15001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Position G1 (Dome Bottom)	30JKS30CT092	30UJA15001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS31CT831	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS31CT832	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS31CT833	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS31CX831	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS31CX832	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS31CX833	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS31CX834	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS31CX835	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS31CX836	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS32CT841	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS32CT842	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS32CT843	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS32CX841	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS32CX842	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS32CX843	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS32CX844	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS32CX845	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS32CX846	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Core Outlet Thermocouple	30JKS41CT811	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS41CT812	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS41CT813	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS41CX811	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS41CX812	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS41CX813	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS41CX814	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS41CX815	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS41CX816	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS42CT831	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS42CT832	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Core Outlet Thermocouple	30JKS42CT833	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS42CX831	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS42CX832	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS42CX833	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS42CX834	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS42CX835	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Self-Powered Neutron Detector	30JKS42CX836	30UJA11001	H	H	RT SI	S 1E EMC	Y (1) Y (5)
Position J7 (Dome Top)	30JKS50CT091	30UJA15001	H	H	~~PAM~~ SII	NS-AQ EMC	Y (1) Y (5)
Coordinate in Core: P16	30JKQ11BZ501	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: T7	30JKQ12BZ502	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: S4	30JKQ13BZ503	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: D2	30JKQ14BZ501	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: A11	30JKQ15BZ502	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: B14	30JKQ16BZ503	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: P2	30JKQ21BZ504	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: D16	30JKQ22BZ504	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: L1	30JKQ31BZ505	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: G17	30JKQ32BZ505	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: T11	30JKQ41BZ506	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Coordinate in Core: A7	30JKQ42BZ506	30UJA11001	H	H	SI	S 1E EMC	Y (1) Y (5)
Excore Instrumentation System (EIS)							
Source Range Detector	30JKT01CX851	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Source Range Detector	30JKT01CX852	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Source Range Detector	30JKT01CX853	30UJA11001	H	H	PAM SI	S 1E EMC	Y (1) Y (5)
Intermediate Range Detector	30JKT02CX851	30UJA11001	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Intermediate Range Detector	30JKT02CX852	30UJA11001	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Intermediate Range Detector	30JKT02CX853	30UJA11001	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Intermediate Range Detector	30JKT02CX854	30UJA11001	H	H	RT ES PAM SI	S 1E EMC	Y (1) Y (5)
Top Power Range Detector	30JKT03CX851	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Top Power Range Detector	30JKT03CX852	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Top Power Range Detector	30JKT03CX853	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Top Power Range Detector	30JKT03CX854	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Bottom Power Range Detector	30JKT03CX855	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Bottom Power Range Detector	30JKT03CX856	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Bottom Power Range Detector	30JKT03CX857	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Bottom Power Range Detector	30JKT03CX858	30UJA11001	H	H	RT ES SI	S 1E EMC	Y (1) Y (5)
Reactor Pressure Vessel Level Measurment System (RPVLM)							
RPVL Conditioning Cabinet (Div 1)	30CLE14GH001	31UJK18025	M	M	~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
RPVL Conditioning Cabinet (Div 2)	30CLF14GH002	32UJK18004	M	M	~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
RPVL Conditioning Cabinet (Div 3)	30CLG14GH003	33UJK18004	M	M	~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
RPVL Conditioning Cabinet (Div 4)	30CLH14GH004	34UJK18025	M	M	~~PAM~~ SI	S 1E EMC	Y (5) Y (6)
Position L17 (Top sensor)	30JKS10CL001	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position L17 (Middle sensor)	30JKS10CL002	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position L17 (Bottom sensor)	30JKS10CL003	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position S14 (Top sensor)	30JKS20CL001	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position S14 (Middle sensor)	30JKS20CL002	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position S14 (Bottom sensor)	30JKS20CL003	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position G1 (Top sensor)	30JKS30CL001	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position G1 (Middle sensor)	30JKS30CL002	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position G1 (Bottom sensor)	30JKS30CL003	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position B4 (Top sensor)	30JKS40CL001	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position B4 (Middle sensor)	30JKS40CL002	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Position B4 (Bottom sensor)	30JKS40CL003	30UJA11001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y (5)
Control Rod Drive Control System (CRDCS)							
CONTACTOR MODULE	34BUA10BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA11BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA12BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA1BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA2BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA3BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA4BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA5BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA6BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA7BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA8BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA9BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA10BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	31BUA11BZ001	31UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA1BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA2BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA3BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA4BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA5BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA6BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA7BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
CONTACTOR MODULE	34BUA8BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
CONTACTOR MODULE	34BUA9BZ001	34UJK18027	M	M	RT ES SI	S 1E EMC	Y (5) Y (6)
Hydrogen Monitoring System (HCMS)							
H2 SENSOR UJA	30JMU10CQ001	30UJA40001	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
H2 SENSOR UJA	30JMU10CQ002	30UJA34019	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
H2 SENSOR UJA	30JMU10CQ003	30UJA34003	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
H2 SENSOR UJA	30JMU10CQ004	30UJA29014	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
H2 SENSOR UJA	30JMU10CQ005	30UJA23008	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
H2 SENSOR UJA	30JMU10CQ006	30UJA29013	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
H2 SENSOR UJA	30JMU10CQ007	30UJA29014	H	H	~~PAM~~ SI	S 1E EMC	Y (1) Y(5)
CABINET HEATER	30JMU50AH010	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
CABINET HEATER	30JMU51AH010	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 SENSOR UFA	30JMU20CQ001	30UFA10082	M	H	SII	NS-AQ EMC	Y(2) Y(5) Y(6)
H2 SENSOR UFA	30JMU20CQ002	30UFA10082	M	H	SII	NS-AQ EMC	Y(2) Y(5) Y(6)
H2 SENSOR UFA	30JMU20CQ003	30UFA10082	M	H	SII	NS-AQ EMC	Y(2) Y(5) Y(6)
H2 SENSOR UFA	30JMU20CQ004	30UFA13085	M	H	SII	NS-AQ EMC	Y(2) Y(5) Y(6)
H2 SENSOR UFA	30JMU20CQ005	30UFA13085	M	H	SII	NS-AQ EMC	Y(2) Y(5) Y(6)
P DNSTR MOIST SENR	30JMU50CP001	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT VACUUM TANK	30JMU50CP002	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
N2 SUP UPSTR P REDU	30JMU50CP501	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
N2 SUP DNSTR P REDU	30JMU50CP502	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
LOCL P AT BATT P REDU	30JMU50CP503	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
LOCL P AT BATT P REDU	30JMU50CP504	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
LOCL P AT BATT P REDU	30JMU50CP505	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT P REDU	30JMU50CP512	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P DNSTR SENSORS	30JMU50CP513	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT P REDU	30JMU50CP514	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT P REDU	30JMU50CP515	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC *UJA*	30JMU50CQ001	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC *UJA*	30JMU50CQ002	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC *UJA*	30JMU50CQ003	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC *UJA*	30JMU50CQ004	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOISTURE SENSOR	30JMU50CQ010	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC *UJA*	30JMU50CQ011	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC *UJA*	30JMU50CQ012	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC *UJA*	30JMU50CQ013	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC *UJA*	30JMU50CQ014	34UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 SENSOR	30JMU50CQ020	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T CABINET HEATING	30JMU50CT010	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T CABINET HEATING	30JMU50CT011	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T AT H2 SENSOR	30JMU50CT012	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T AT TEST VESSEL	30JMU50CT013	34UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P DNSTR MOIST SENR	30JMU51CP001	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
P AT VACUUM TANK	30JMU51CP002	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
N2 SUP UPSTR P REDU	30JMU51CP501	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
N2 SUP DNSTR P REDU	30JMU51CP502	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
LOCL P AT BATT P REDU	30JMU51CP503	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
LOCL P AT BATT P REDU	30JMU51CP504	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
LOCL P AT BATT P REDU	30JMU51CP505	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT P REDU	30JMU51CP512	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P DNSTR SENSORS	30JMU51CP513	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT P REDU	30JMU51CP514	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
P AT P REDU	30JMU51CP515	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC "UJA"	30JMU51CQ001	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC "UJA"	30JMU51CQ002	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC "UJA"	30JMU51CQ003	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 CONC "UJA"	30JMU51CQ004	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOISTURE SENSOR	30JMU51CQ010	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC "UJA"	30JMU51CQ011	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC "UJA"	30JMU51CQ012	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC "UJA"	30JMU51CQ013	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
MOIST CONC "UJA"	30JMU51CQ014	31UJH10011	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 SENSOR	30JMU51CQ020	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T CABINET HEATING	30JMU51CT010	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T CABINET HEATING	30JMU51CT011	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T AT H2 SENSOR	30JMU51CT012	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
T AT TEST VESSEL	30JMU51CT013	31UJH10010	M	H	~~PAM~~ SII	NS-AQ	Y(2) Y(5)
H2 ISOLATION VALVE UJA	30JMU50AA07~~01~~	30UJA11016	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA076~~02~~	34UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU50AA07~~03~~	30UJA11016	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA078~~04~~	34UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU50AA079~~05~~	30UJA11016	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA080~~06~~	34UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU50AA081~~07~~	30UJA11016	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU50AA082~~08~~	34UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJH	30JMU50AA083~~09~~	34UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU50AA084~~10~~	30UJA11016	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJA	30JMU51AA085~~11~~	30UJA11013	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA086~~12~~	31UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU51AA087~~13~~	30UJA11013	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA088~~14~~	31UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU51AA089~~15~~	30UJA11013	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA090~~16~~	31UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU51AA091~~17~~	30UJA11013	H	H	PAM SI	S 1E EMC	Y(1) Y(5)
H2 ISOLATION VALVE UJH	30JMU51AA092~~18~~	31UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJH	30JMU51AA093~~19~~	31UJH10011	M	H	PAM SI	S 1E EMC	Y(2) Y(5) Y(6)
H2 ISOLATION VALVE UJA	30JMU51AA094~~20~~	30UJA11013	H	H	PAM SI	S 1E EMC	Y(1) Y(5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Radiation Monitoring System (RMS)							
BBX Main Control Room Vent Duct Gamma	30JYK00GH061	32UJK31018	M	M	SI	S 1E EMC	Y (5) Y (6)
BBX Main Control Room Vent Duct Gamma	30JYK00GH062	33UJK31018	M	M	SI	S 1E EMC	Y (5) Y (6)
BBX Main Control Room Vent Duct Gamma	30JYK00GH109	32UJK31018	M	M	SI	S 1E EMC	Y (5)
BBX Main Control Room Vent Duct Gamma	30JYK00GH110	32UJK31018	M	M	SI	S 1E EMC	Y (5)
BBX Containment High Range Dose Rate	30JYK00GH111	30UFA29090	M	H	~~PAM~~ SI	S 1E EMC	Y (5)
BBX Containment High Range Dose Rate	30JYK00GH112	30UFA29090	M	H	~~PAM~~ SI	S 1E EMC	Y (5)
BBX Containment High Range Dose Rate	30JYK00GH007	30UFA29090	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
BBX Containment High Range Dose Rate	30JYK00GH008	30UFA29090	M	H	~~PAM~~ SI	S 1E EMC	Y (2) Y (5) Y (6)
Containment High Range Dose Rate Monitor	30JYK15CR101	30UJA29016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Containment High Range Dose Rate Monitor	30JYK28CR101	30UJA29016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Containment High Range Dose Rate Monitor	30JYK15CR102	30UJA29016	H	H	ES PAM SI	S 1E EMC	Y(1) Y (5)
Containment High Range Dose Rate Monitor	30JYK15CR103	30UJA29016	H	H	ES PAM SI	S 1E EMC	Y(1) Y (5)
Radiation Monitoring Cabinet (Div 1)	30CLE20	31UJK18025	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Radiation Monitoring Cabinet (Div 2)	30CLF20	32UJK18004	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Radiation Monitoring Cabinet (Div 3)	30CLG20	33UJK18004	M	M	ES SI	S 1E EMC	Y (5) Y (6)
Radiation Monitoring Cabinet (Div 4)	30CLH20	34UJK18025	M	M	ES SI	S 1E EMC	Y (5) Y (6)
HVAC Systems							
Containment Building Ventilation System (CBVS)							
Elec Air Heater KLA 2 Tr 2 Filt	30KLA22AH005	30UFA24081	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
KLA 2 Tr 2 Fan	30KLA22AN001	30UFA24085	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
KLA Plen Sup Motor Bal Dmpr	30KLA30AA001	30UFA21065	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Motor Control Dmpr 1 to FB KLL	30KLA30AA004	30UFA21065	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
Op Fl Motorized Control Damper Sup	30KLA30AA007	30UJA29013	H	H	SII	NS-AQ EMC	Y (1) Y (5)
Motor Control Dmpr 2 to FB KLL	30KLA30AA008	30UFA21065	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
KLA 3 Plen Sup Fire Dmpr	30KLA30AA013	30UFA17065	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
KLA1 Containment Iso Valve 42 ft FB	30KLA10AA001	30UFA21095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
KLA1 Containment Iso Valve 42 ft RB	30KLA10AA003	30UJA18016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
KLA2 Cont Iso Valve 48 ft FB	30KLA20AA001	30UJA23015	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
KLA2 Cont Iso Valve 48 ft RB	30KLA20AA003	30UFA24045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
KLA3 Cont Iso Damp 32 ft FB	30KLA30AA002	30UFA17095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
KLA3 Cont Iso Damp 32 ft RB	30KLA30AA003	30UJA18016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
KLA4 Cont Iso Damp 32 ft RB	30KLA40AA001	30UJA18016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
KLA4 Cont Iso Damp 32 ft FB	30KLA40AA002	30UFA17095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Fire Dmpr Plen Sup to FB KLL	30KLA30AA014	30UFA17065	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
KLA 4 Eq Comp control dmpr	30KLA40AA004	30UJA18016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
KLA 4 Eq Comp Iso Dmpr	30KLA40AA005	30UJA18016	H	H	SII	NS-AQ EMC	Y (1) Y (5)
KLA 4 Fire Damper UFA24095	30KLA40AA006	30UFA24095	M	H	SII	NS-AQ EMC	Y (2) Y (5) Y (6)
KLA 4 Sup Motor Louver Damper	30KLA40AA007	30UJA34015	H	H	SII	NS-AQ EMC	Y (1) Y (5)
KLA 5 Fire Dmpr Serv Comp Sup	30KLA50AA001	30UJA29015	H	H	SII	NS-AQ EMC	Y (1) Y (5)
KLA 5 Filter Train Upstream Iso Dmpr	30KLA50AA002	30UJA29022	H	H	SII	NS-AQ EMC	Y (1) Y (5)
KLA 5 Fire Dmpr Serv Comp Exh	30KLA50AA003	30UJA29015	H	H	SII	NS-AQ EMC	Y (1) Y (5)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)			EQ Program Designation (Note 5)			
Pos Meas 1 KLA30AA003	30KLA30CG003A	30UJA18016	H	H	SI	S	1E	EMC	Y (1)		Y (5)	
Pos Meas 2 KLA30AA003	30KLA30CG003B	30UJA18016	H	H	SI	S	1E	EMC	Y (1)		Y (5)	
Pos Meas 1 KLA40AA002	30KLA40CG002A	30UFA21095	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Pos Meas 2 KLA40AA002	30KLA40CG002B	30UFA21095	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
Pos Meas KLA40AA004	30KLA40CG004	30UJA18016	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 5 Flow Measurement	30KLA50CF001	30UJA29022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
DP Meas KLA50AT001	30KLA50CP501	30UJA29022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
DP Meas KLA50AT002	30KLA50CP502	30UJA29022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
DP Meas KLA50AT003	30KLA50CP503	30UJA29022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
DP Meas KLA50AT004	30KLA50CP504	30UJA29022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
Temp Meas KLA50AH001	30KLA50CT001	30UJA29022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA Dp Sens 2 FB	30KLA60CP851	30UFA13004	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 1 SG2	30KLA60CP852	32UJH10002	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 1 SG3	30KLA60CP853	33UJH10002	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 1 FB	30KLA60CP854	30UFA10052	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA 6 Supply Air Temp Meas 1	30KLA61CT001	30UJA23017	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Supply Air Temp Meas 2	30KLA61CT002	30UJA23017	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 RCP1 Air Temp Meas	30KLA61CT003	30UJA23002	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 RCP2 Air Temp meas	30KLA61CT004	30UJA34005	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 SG1 Air Temp Meas	30KLA61CT005	30UJA34003	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 SG2 Air Temp Meas	30KLA61CT006	30UJA34004	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Eq Comp CRDM Air Temp Meas	30KLA61CT007	30UJA15001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 FAL Valves Air Temp Meas	30KLA61CT008	30UJA23020	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 KTA Pumps Air Temp meas	30KLA61CT011	30UJA07022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Supply Air Temp Meas 3	30KLA63CT001	30UJA23018	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Supply Air Temp Meas 4	30KLA63CT002	30UJA23018	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 RCP3 Air Temp Meas	30KLA63CT003	30UJA34006	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 RCP4 Air Temp Meas	30KLA63CT004	30UJA23009	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 SG3 Air Temp Meas	30KLA63CT005	30UJA34007	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 SG4 Air Temp Meas	30KLA63CT006	30UJA34008	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Safety Relief Valve rm Air Temp	30KLA63CT008	30UJA34019	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 UJA11024 Air Temp Meas	30KLA63CT009	30UJA11024	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 UJA11022 Air Temp Meas	30KLA63CT010	30UJA11022	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 1	30KLA65CT001	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 2	30KLA65CT002	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 3	30KLA65CT003	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 4	30KLA65CT004	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 5	30KLA65CT005	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 6	30KLA65CT006	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 7	30KLA65CT007	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA 6 Temp Sensor Primary Pipe 8	30KLA65CT008	30UJA11001	H	H	SII	NS-AQ		EMC	Y (1)		Y (5)	
KLA DP Sens 4 FB	30KLA70CP801	30UFA13004	M	H	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 3 SG2	30KLA70CP802	32UJH10002	M	H	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 3 SG3	30KLA70CP803	33UJH10002	M	H	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 3 FB	30KLA70CP804	30UFA10052	M	H	PAM SI	S	1E	EMC		Y (2)	Y (5)	Y (6)
KLA DP Sens 5 FB	30KLA70CP851	30UFA13004	M	H	SI	S	1E	EMC		Y (2)	Y (5)	Y (6)

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Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
Fuel Pool Cooling and Purification System (FPCPS)							
ILCO ISOLATION VALVE	30FAL10AA003	30UJA11021	H	H	SII	NSAQ	Y (5)
FPP TO RB POOL INSIDE CI VALVE ACTUATOR	30FAL12AA001	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
FPP TO RB POOL OUTSIDE CI VALVE ACTUATOR	30FAL12AA002	30UFA06045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
FPP TO RB POOL OUTSIDE CI VALVE ACTUATOR	30FAL15AA002	30UFA10045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Demineralized Water Distribution System (DWDS)							
DEMIENALIZED WATER OUTER COTAINMENT ISOL	30GHC74AA001	30UFA21045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
DEMIENALIZED WATER INNER COTAINMENT ISOL	30GHC74AA002	30UJA18013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Leak-Off System (LOS)							
CIDS INSIDE CI VALVE ACTUATOR	30JMM10AA006	30UJA23013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CIDS OUTSIDE CI VALVE ACTUATOR	30JMM10AA007	30UFA24095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
CLES CI VALVE ACTUATOR: LOCATED INSIDE R	30JMM23AA001	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
CLES CI VALVE ACTUATOR: LOCATED INSIDE A	30JMM23AA002	30UJB05002	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
Severe Accident Heat Removal System (SAHRS)							
SUCTION LINE FROM IRWST OUTER CI VALVE A	30JMQ40AA001	34UJH01010	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SPRAYING LINE OUTER CI VALVE ACTUATOR	30JMQ41AA001	34UJH05007	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
ACTIVE RECIRCULATION LINE OUTER CI VALVE	30JMQ42AA001	34UJH05007	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
BACKFLUSHING LINE OUTER CI VALVE ACTUATO	30JMQ43AA001	34UJH05007	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Gaseous Waste Processing System (GWPS)							
Actuator - Containment Isolation Valve	30KPL84AA002	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Actuator - Containment Isolation Valve	30KPL84AA003	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Actuator - Containment Isolation Valve	30KPL85AA003	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Actuator - Containment Isolation Valve	30KPL85AA004	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Condensate (Inside Containment) System (CS)							
Motor for C I-V	30LCA90AA003	32UJE34003	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
Condensate C I-V motor	30LCA90AA005	30UJA34014	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Motor for condensate C I-V	30LCA90AA006	32UJE34003	M	M	ES PAM SI	S 1E EMC	Y (5) Y (6)
condensate C I-V position sensor	30LCA90CG004	30UJA34014	H	H	ES SI	S 1E	Y (1) Y (5)
condensate pressure instr.	30LCA90CP002	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
condensate pressure tap	30LCA90CP402	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
condensate pressure tap	30LCA90CP501	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
condensate temperature transmitter	30LCA90CT001	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
condensate temperature transmitter	30LCA90CT002	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
condensate thermo couple	30LCA90CT401	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
condensate thermo couple	30LCA90CT402	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)

Table 3.11-1—List of Environmentally Qualified Electrical/I&C Equipment
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Name Tag (Equipment Description)	Tag Number	Local Area KKS ID (Room Location)	EQ Environment (Note 1)	Radiation Environment Zone (Note 2)	EQ Designated Function (Note 3)	Safety Class (Note 4)	EQ Program Designation (Note 5)
condensate thermo couple	30LCA90CT403	30UJA07018	H	H	SII	NS-AQ	Y (1) Y (5)
Central Gas Distribution (Nitrogen) System (CGDS)							
QJB OUTSIDE CONTAINMENT ISOLATION VALVE	30QJB40AA001	30UFA24045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
QJB INSIDE CONTAINMENT ISOLATION VALVE A	30QJB40AA002	30UJA23013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
QJB OUTSIDE CONTAINMENT ISOLATION VALVE	30QJB40AA003	30UFA10095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
QJB INSIDE CONTAINMENT ISOLATION VALVE A	30QJB40AA004	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Operational Chilled Water System - Nuclear Island (OCWS)							
Motor for Valve 30QNJ41AA002	30QNJ41AA002	30UFA17095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Motor for Valve 30QNJ41AA027	30QNJ41AA027	30UJA18016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Motor for Valve 30QNJ41AA028	30QNJ41AA028	30UFA17095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
Secondary Sampling (SG Blowdown) System (SECSS)							
SG1 2ndary sampling outer C I-V motor	30QUC11AA001	30UFA10045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SG1 2ndary sampling inner C I-V motor	30QUC11AA011	30UJA11013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SG2 2ndary sampling outer C I-V motor	30QUC12AA001	30UFA10045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SG2 2ndary sampling inner C I-V motor	30QUC12AA011	30UJA11013	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SG3 2ndary sampling outer C I-V motor	30QUC13AA001	30UFA06083	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SG3 2ndary sampling inner C I-V motor	30QUC13AA011	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
SG4 2ndary sampling outer C I-V motor	30QUC14AA001	30UFA10095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
SG4 2ndary sampling inner C I-V motor	30QUC14AA011	30UJA11016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Compressed Air System (CAS)							
COMPRESSED AIR OURTER COTAINMENT ISOLATI	30SCB01AA001	30UFA13054	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
COMPRESSED AIR INNER COTAINMENT ISOLATIO	30SCB01AA002	30UJA15016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Fire Water Distribution System (FWDS)							
FIRE WATER DISTRIBUTION SYSTEM CI VALVE	30SGB30AA031	30UFA13054	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
FIRE WATER DISTRIBUTION SYSTEM CI VALVE	30SGB30AA032	30UJA15016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
Nuclear Island Drain & Vent System (NI DVS)							
INNER CONT ISO VLV ACTUATOR	30KTA10AA017	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
OUTER CONT ISO VALVE ACTUATOR	30KTA10AA018	30UFA06045	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
INNER CONT ISO VLV FLOOR DRN 1 ACTUATOR	30KTC10AA005	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
OUTER CONT ISO VLV FLOOR DRN 1 ACTUATOR	30KTC10AA006	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
OUTER CONT ISO VLV CHEM REINJ ACTUATOR	30KTC10AA010	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
OUTER CONT ISO VLV FLOOR DRN 2 ACTUATOR	30KTD10AA015	30UFA06095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)
INNER CONT ISO VLV FLOOR DRN 2 ACTUATOR	30KTD10AA024	30UJA07016	H	H	ES PAM SI	S 1E EMC	Y (1) Y (5)
OUTER CONT ISO VLV ANNULUS ACTUATOR	30KTD10AA025	30UFA10095	M	H	ES PAM SI	S 1E EMC	Y (2) Y (5) Y (6)

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Each division of the PS and the SICS is supplied by an independent Class 1E, uninterruptible electrical bus. These busses are backed by the emergency diesel generators to cope with loss of offsite power. Inside a division, the PS cabinets are supplied by two redundant, uninterruptible 24 Vdc feeds. To cope with loss of onsite and offsite power, the feeds to the PS cabinets are supplied with two-hour batteries.

7.5.2.1.2 GDC 13, "Instrumentation and Control"

The PICS and SICS provide the capability for monitoring variables, including post-accident monitoring variables and system variables over their anticipated ranges for normal operation, for AOO, and for accident conditions as appropriate. This monitoring provides reasonable assurance of safety by including those variables and systems that can affect the fission process, the integrity of the reactor core, the reactor coolant pressure boundary, or the containment and its associated systems. The PICS and SICS also provide a means of manual control capabilities for maintaining these variables and systems within prescribed operating ranges.

7.5.2.2 Discussion

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7.5.2.2.1 Conformance with Regulatory Guide 1.97 and BTP 7-10

The guidance of RG 1.97, Revision 4, will be used to ~~select~~confirm the accident monitoring variables during detailed design. With clarifying regulatory positions, RG 1.97, Revision 4, endorses Reference 1, which provides performance-based criteria for selecting variables and recommends determining the variable type according to its accident management function. The accident management function is to be identified by its use in the Emergency Procedure Guidelines (EPG), Emergency Operating Procedures (EOP), and Abnormal Operating Procedures (AOP). The development of these guidelines and procedures is discussed in Section 13.5. When these procedures are complete and verified, they will be used to ~~develop a complete~~confirm the accident monitoring instrumentation list.

~~A COL applicant that references the U.S. EPR design certification will update the initial inventory list of accident monitoring variables in Table—Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables Sheet 1 of 2, with a final list upon completion of the emergency operating and abnormal operating procedures prior to fuel loading.~~

Development of the Accident Monitoring Variables List~~Initial Inventory of Accident Monitoring Variables~~

Section 13.5.2.1.2 describes the EOP development process. Preparation of EOPs and AOPs for the U.S. EPR plant requires detailed design of systems to be completed. An evaluation was performed to develop the initial list of accident monitoring variables for the U.S. EPR plant. The evaluation included:

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- A review of Volume 1 of the B&W Unit EOP Technical Basis Document (Reference 11) to identify required supporting instrumentation. The evaluation considered the differences in the U.S. EPR and the B&W plant designs.
- A review of the operator manual actions listed in Section 15.0.0.3.7 for which no automatic control is provided to determine instrumentation required to support those actions.
- A review of radiation monitoring systems to identify instruments necessary to support post-accident monitoring.
- Identification of additional instrumentation based on engineering judgment considering differences between the U.S. EPR and the B&W plant designs.
- A comparison of the list with the critical safety functions and fission product barriers described in Reference 1.

The ~~initial inventory~~ list of accident monitoring variables is provided in Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables. ~~This initial inventory list was developed by examining those features of the EPR design that must be used to implement the EOP methodology.~~

Confirmation of the Accident Monitoring Variables~~Methodology for Selecting Final List of Accident Monitoring Variables~~

A COL applicant that references the U.S. EPR design certification will update the initial inventory list of accident monitoring variables in Table 7.5-1 with a final list upon completion of the emergency operating and abnormal operating procedures prior to fuel loading.

To meet the guidance of RG 1.97 and Reference 1, a systematic step-by-step review of the plant-specific EOPs for the U.S. EPR is required. See Section 18.8 and Section 13.5 for more information on U.S. EPR procedure development.

The complete accident monitoring instrumentation list will be documented in a table format that includes the following:

- Variable name that indicates the variable function.
- Variable Type (A, B, C, D or E).
- Range.
- Safety classification (1E or non-1E).
- Environmental and Seismic Qualification.
- Minimum number of instruments required.

- Monitoring duration for the variable.

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- ~~Reason for the parameter and any parameter comments.~~

Performance Assessment

A performance assessment of each of the following performance criteria specified in Reference 1 will be conducted and the results documented:

- Range.
- Accuracy.
- Response time.
- Required instrument duration.
- Reliability.

In conformance with Reference 1, a graded approach will be used to develop setpoints associated with accident monitoring variables based on their importance to safety.

Criteria for Selection of Variable Types

In accordance with RG 1.97, Revision 4, and Reference 1, the accident monitoring variables are selected and the variable types are determined according to its accident management function. These variables are the primary source of accident monitoring information. Five types of variables exist and the selection criteria are described as follows:

Type A Variables

Type A variables are those variables that provide the primary information required to permit the control room operating staff to:

- Take specific pre-planned manually-controlled actions for which no automatic control is provided and that are required for safety systems to perform their safety-related functions as assumed in the plant Accident Analysis Licensing Basis.
- Take specific planned manually-controlled actions for which no automatic control is provided and that are required to mitigate the consequences of an AOO.

As recommended by RG 1.97, Revision 4, type A variables include those variables that are associated with contingency actions that are within the plant licensing basis and may be identified in written procedures.

9. ANP-~~10281~~10309P, Revision 0, "U.S. EPR Digital Protection System ~~Topical~~Technical Report," AREVA NP Inc., ~~March~~November ~~2007~~2009.

10. NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," Nuclear Regulatory Commission, March 2007.

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11. Letter OG-1789, Tony Stallard, Chariman, B&WOG Operator Support Committee, to Chief, Reactor Systems Branch (NRC), "Transmittal of B&W Owners Group Emergency Operating Procedures Technical Bases Document, Revision 9," dated April 26, 2000 and attachments (ML003711891).

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Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables
Sheet 1 of 4

No	Variable	Range	Minimum Channels Required	Duration	Safety Class	EQ[1] per IEEE Std. 323-1974	Seismic Qualification	Type				
								A	B	C	D	E
1	Annulus Ventilation System Gamma Activity	See Table 11.5-1	2	1 year	NS-AQ	Yes	I			X		X
2	Condenser Evacuation System Exhaust Radiation	See Table 11.5-1	1	24 hours	NS	No	NSC					X
3	Containment High Range Radiation	See Table 12.3-3	2	1 year	S	Yes	I		X	X		X
4	Containment Isolation Valve Position Indications	Closed/not closed	1 / valve	1 year	S	Yes	I		X			
5	Containment Service Compartment Wide Range Pressure	-5 to 220 psig	2	1 year	S	Yes	I			X	X	
6	Core Outlet Thermocouples Wide Range Temperature	32 to 2300 °F	8 (2 / quadrant)	1 year	S	Yes	I		X	X	X	
7	Extra Borating System Flow	0 to 60 gpm	1 / train	24 hours	S	Yes	I				X	
8	Emergency Feedwater Flow to SG	0 to 545 gpm	2 / train	24 hours	S	Yes	I	X	X		X	
9	Emergency Feedwater Wide Range Pool Level	0 to 300 inches	1 / train	24 hours	S	Yes	I				X	
10	Emergency Power Supply System Voltage	0 to 8625 VAC	1 /train	1 year	S	Yes	I				X	
11	Fuel Building Fuel Pool Dose Rate	See Table 12.3-3	1	24 hours	NS	No	NSC					X

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Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables
Sheet 2 of 4

No	Variable	Range	Minimum Channels Required	Duration	Safety Class	EQ[1] per IEEE Std. 323-1974	Seismic Qualification	Type				
								A	B	C	D	E
12	Fuel Building Setdown Dose Rate	See Table 12.3-3	1	24 hours	NS	No	NSC					X
13	Hot Leg Injection Flow	0 to 3200 gpm	1 / train	1 year	S	Yes	I				X	
14	Intermediate Range Nuclear Instrumentation	5×10^{-6} to 60% NP	2	2 hours	S	Yes	I		X		X	
15	In-containment Refueling Water Storage Tank Level	0 to 20 feet	1	1 year	S	Yes	I				X	
16	Low Head Safety Injection Wide Range Flow	0 to 3800 gpm	2 / train	1 year	S	Yes	I		X		X	
17	Main Control Room Dose Rate	See Table 12.3-3	1	24 hours	NS	No	NSC					X
18	Main Steam Line Radiation	See Table 11.5-1	2 / line	2 hours	S	Yes	I	X	X			
19	Medium Head Safety Injection Wide Range Flow	0 to 1300 gpm	2 / train	24 hours	S	Yes	I		X		X	
20	Pressurizer Level	0 to 100%	2	24 hours	S	Yes	I	X	X			
21	Pressurizer Safety Relief Valve Position Indication	Closed/not closed	1 / valve	24 hours	NS-AQ	Yes	I				X	
22	Reactor Coolant System Hot Leg Pressure	0 to 3000 psig	2	1 year	S	Yes	I	X	X	X		

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Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables
Sheet 3 of 4

No	Variable	Range	Minimum Channels Required	Duration	Safety Class	EQ[1] per IEEE Std. 323-1974	Seismic Qualification	Type				
								A	B	C	D	E
23	Reactor Coolant System Wide Range Cold Leg Temperature	32 to 662 °F	2	24 hours	S	Yes	I	X	X		X	
24	Reactor Coolant System Wide Range Hot Leg Temperature	32 to 662 °F	2	24 hours	S	Yes	I	X				
25	Reactor Building Personnel Air Lock Dose Rate	See Table 12.3-3	1	24 hours	NS	No	NSC					X
26	Safeguard Building Controlled-Area Ventilation System Gamma Activity	See Table 11.5-1	1	1 year	NS-AQ	Yes	II					X
27	Safeguard Building Corridor Dose Rate	See Table 12.3-3	1 / building	24 hours	NS	No	NSC					X
28	Safeguard Building Personnel Air Lock Dose Rate	See Table 12.3-3	1	24 hours	NS	No	NSC					X
29	Steam Generator Pressure	0 to 1600 psig	2 / SG	24 hours	S	Yes	I	X	X		X	
30	Steam Generator Wide Range Level	0 to 100 %	2 / SG	24 hours	S	Yes	I		X		X	
31	Safety Injection Accumulator Isolation Valve Position	Closed/not closed	1 / valve	24 hours	S	Yes	I				X	

Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables
Sheet 4 of 4

No	Variable	Range	Minimum Channels Required	Duration	Safety Class	EQ[1] per IEEE Std. 323-1974	Seismic Qualification	Type				
								A	B	C	D	E
32	Safety Injection System Suction Strainer Differential Pressure	0 to 5 psid	1 / train	1 year	S	Yes	I				X	
33	Source Range Neutron Flux	0.05 to 5 x 10^4 n/cm^2-s	2	1 year	S	Yes	I		X			
34	Subcooling Margin	611°F Subcooling Margin to 2088°F Superheat	2	24 hours	S	Yes	I	X	X			
35	Vent Stack Aerosol Activity	See Table 11.5-1	1	1 year	NS	No	NSC					X
36	Vent Stack Iodine Activity	See Table 11.5-1	1	1 year	NS	No	NSC					X
37	Vent Stack Gas Activity	See Table 11.5-1	1	1 year	NS	No	NSC					X

Notes:

1. Environmental Qualification.

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~~Table 7.5-1—Initial Inventory of Post-Accident Monitoring Variables~~
~~Sheet 1 of 2~~

~~Variable Description~~
~~Power range nuclear flux~~
~~Intermediate range nuclear flux~~
~~Source range nuclear flux~~
~~Control rod drive mechanism (CRDM) position~~
~~Generator output and exciter breaker position indication~~
~~24 Vdc I&C power~~
~~Emergency power supply system 6.9 kV bus voltage~~
~~PZR level~~
~~PZR steam temperature~~
~~PZR pressure~~
~~PZR heater status (emergency supplied)~~
~~PZR auxiliary spray valve indication~~
~~PZR normal spray valve indications~~
~~PSRV position indication~~
~~RCS hot leg temperature wide range (WR)~~
~~RCS hot leg temperature narrow range (NR)~~
~~RCS cold leg temperature (WR)~~
~~RCS cold leg temperature (NR)~~
~~RCS hot leg pressure (WR)~~
~~RCS hot leg pressure (NR)~~
~~Incore thermocouple temperature~~
~~Medium head safety injection (MHSI) flow~~
~~Low head safety injection (LHSI) flow~~
~~LHSI cooler inlet temperature (IRWST temperature)~~
~~IRWST level~~
~~Safety injection accumulator (SIA) level (WR)~~
~~SIA isolation valve position~~
~~LHSI hot leg injection flow~~
~~Component cooling water system (CCWS) flow~~
~~CCWS temperatures~~
~~Essential service water system (ESWS) flow~~
~~ESWS temperatures~~
~~Containment temperature~~
~~Containment pressure~~
~~Pressurizer relief tank (PRT) pressure~~

~~Variable Description~~
~~PRT temperature~~
~~PRT level~~
~~RCS loop flow~~
~~RCS boron concentration~~
~~Extra borating system (EBS) flow~~
~~Chemical and volume control system (CVCS) charging flow~~
~~CVCS letdown flow~~
~~Volume control tank (VCT) level~~
~~Reactor pressure vessel high point vent valve position indication~~
~~Containment hydrogen monitors~~
~~Reactor coolant pump (RCP) motor amps~~
~~Reactor vessel level indication~~
~~Steam generator (SG) level (WR)~~
~~SG level (NR)~~
~~SG pressure~~
~~Main steam flow~~
~~SG blowdown flow~~
~~Emergency feedwater (EFW) flow~~
~~Main feedwater (MFW) flow~~
~~Startup shutdown system (SSS) flow~~
~~Condensate flow~~
~~Main steam isolation valve (MSIV) position indication~~
~~Main steam safety valve (MSSV) position indication~~
~~Main steam relief isolation valve (MSRIV) position indication~~
~~Condenser vacuum~~
~~Containment isolation valve position indication (not including check valves)~~
~~Main steam line radiation monitors~~
~~Turbine Building main condenser beta activity monitor~~
~~SG secondary side sample radiation monitors~~
~~SG blowdown radiation monitors~~
~~Containment high range radiation monitors~~

two-hour battery backup with diesel generators as the auxiliary power to provide continuous indication.

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Table 12.3-3 includes ~~the accident~~ area radiation monitoring instrumentation.

Refer to Section 7.5 for information regarding specific post-accident monitoring instrumentation.

12.3.4.1.3 In-containment High-Range Monitoring

The in-containment monitoring instrumentation used during postulated accidents is provided to:

- Measure gamma radiation, primarily from airborne gaseous radioactivity~~, in order to detect a breach of fuel cladding and the primary coolant boundary~~.
- Deliver a signal to the MCR to alert operators when predetermined setpoints are reached.
- Record data from the monitors to maintain a record of the gamma radiation after an accident as a function of time so that the inventory of radioactive materials in the containment volume can be estimated.
- Initiate Reactor Building containment ventilation system isolation and exhaust filtering on high radiation inside the Reactor Building.
- Initiate Safeguard Building controlled-area ventilation system isolation and exhaust filtering on high radiation inside the Reactor Building.
- Initiate Fuel Building ventilation system exhaust filtering on high radiation in the Reactor Building, concurrent with Safeguard Building controlled area ventilation system alignment.

These safety-related instruments and the associated network are environmentally qualified (refer to Section 3.11) to survive an accident and perform their design functions. The instruments are designed to respond to gamma radiation over the energy range of at least 60 keV to 3 MeV, with a dose rate response accuracy within a factor of two over the entire range. These monitors conform to the criteria set forth in 10 CFR 50.34(f)(2)(xvii), NUREG-0737, II.F.1 (Reference 3), and RG 1.97 (refer to Section 7.5). These monitors also meet the applicable requirements of IEEE Std 497-2002~~ for a Type C instrument and a Type E instrument~~ (Reference 7). This instrumentation is powered by the EUPS (refer to Section 8.3.1), which is served by a two-hour battery backup with diesel generators as the auxiliary power to provide continuous indication.

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The in-containment high-range monitoring instrumentation consists of four independent high-range monitors located in widely separated areas in the service

- Figure 12.3-74—Access, Nuclear Auxiliary, and Radioactive Waste Buildings Airborne Monitoring.

~~Table 12.3-2—U.S. EPR Radiation Zone Designation~~ Table 12.3-4—Airborne Radioactivity Detector Parameters includes the normal operations airborne radioactivity monitoring instrumentation.

12.3.4.2.2 Accident Conditions

Airborne radioactivity monitoring instrumentation is used during postulated accidents to provide indication and alarm to the MCR operator to indicate a potential or actual breach of the fuel cladding, primary coolant boundary, or containment by detecting the release of fission products. These instruments provide information that permits the MCR operator to assess the magnitude of the release in the event of an accident and to assess the release while in progress.

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Emergency power is supplied to installed accident monitoring systems via the 1E power supply (refer to Section 8.3.1), which has diesel generators as the auxiliary power to provide power in the event of loss of normal power.

Table 12.3-4 includes ~~the accident~~ airborne radioactivity monitoring instrumentation.

Refer to Section 7.5 for information regarding post-accident monitoring instrumentation.

12.3.4.2.3 Control Room Airborne Radioactivity Monitoring System

The MCR envelope (MCR, technical support center, and MCR HVAC room) is normally supplied with fresh unfiltered air. Airborne radioactivity monitoring instrumentation is provided for the MCR to:

- Monitor for airborne radioactivity so that the control room envelope remains habitable following a radioactive release.
- Provide a signal to initiate the supplemental air filtration system, isolate the MCR complex air intake and exhaust ducts, and activate the emergency habitability system when predetermined setpoints are exceeded.

The control room airborne radioactivity monitoring system is an ESF system (refer to Section 7.3). This instrumentation is powered by the EUPS (refer to Section 8.3.1), which is served by a two-hour battery backup with diesel generators as the auxiliary power to provide continuous indication. The system is illustrated in Figure 12.3-72—Main Control Room Airborne Monitoring.

Table 12.3-3—Radiation Monitor Detector Parameters
Sheet 3 of 3

Monitor Location	Monitor Provisions		Range
	Continuous	ACF	
Nuclear Auxiliary Building	1 monitor – Filter Changing Equipment Room (elevation 0')	---	1E-4 – 1E+1 rem/hr
	1 monitor – In the primary sampling room (elevation -31')	---	1E5 – 1E+0 rem/hr
	1 monitor – In the active laboratory (elevation -31')	---	1E5 – 1E+0 rem/hr
	1 monitor – In the hot workshop (elevation +64')	---	1E5 – 1E+0 rem/hr
~~Post Accident Monitoring~~			
Reactor Building	4 monitors inside containment – Service Compartment	Signals Reactor Building air filtration isolation and RHR valve closure	1E-1 – 1E+7 rad/hr
Radioactive Waste Processing Building	1 monitor – In the drumming room next to conveyor	---	1E-4 – 1E+4 rem/hr
	1 monitor – In the decontamination room	---	1E-4 – 1E+4 rem/hr

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3.3 INSTRUMENTATION

3.3.2 Post Accident Monitoring (PAM) Instrumentation

LCO 3.3.2 The PAM instrumentation for each Function shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each Function.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more Functions with one required division inoperable.	A.1 Restore required division to OPERABLE status.	30 days
B. Required Action and associated Completion Time of Condition A not met.	B.1 Initiate action in accordance with Specification 5.6.5.	Immediately
C. One or more Functions with two required divisions inoperable.	C.1 Restore one division to OPERABLE status.	7 days
D. Required Action and associated Completion Time of Condition C not met.	D.1 Enter the Condition referenced in Table 3.3.2-1 for the division. ~~D.1 Be in MODE 3.~~ ~~AND~~ ~~D.2 Be in MODE 4.~~	Immediately ~~6 hours~~ ~~12 hours~~

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ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. As required by Required Action D.1 and referenced in Table 3.3.2-1.	E.1 Be in MODE 3. AND E.2 Be in MODE 4.	6 hours 12 hours
F. As required by Required Action D.1 and referenced in Table 3.3.2-1.	F.1 Initiate action in accordance with Specification 5.6.5.	Immediately

SURVEILLANCE REQUIREMENTS

----------NOTE----------
This SR applies to each PAM instrumentation Function.

SURVEILLANCE		FREQUENCY
SR 3.3.2.1	Perform CALIBRATION	24 months

Table 3.3.2-1 (page 1 of 1)
Post Accident Monitoring Instrumentation

FUNCTION	REQUIRED DIVISIONS	CONDITION REFERENCED FROM REQUIRED ACTION D.1
1. Cold Leg Temperature (Wide Range)	2	E
2. Containment Isolation Valve Position Indication	2[(a)(b)]	E
3. Containment Service Compartment Pressure (Wide Range)	2[(c)]	E[(c)]
4. Core Outlet Thermocouples (Wide Range)	2 per quadrant	F
5. Emergency Feedwater System Flow	2 per loop	E
6. Hot Leg Pressure (Wide Range)	2[(c)]	E[(c)]
7. Hot Leg Temperature (Wide Range)	2[(c)]	E[(c)]
8. Intermediate Range	2[(c)]	E[(c)]
9. Low Head Safety Injection Flow (Wide Range)	2 per loop	F
10. Medium Head Safety Injection Flow (Wide Range)	2 per loop	F
11. Pressurizer Level	2	E
12. Radiation Monitor - Annulus Ventilation System Gamma Activity	2	E
13. Radiation Monitor - Containment High Range	2[(c)]	E[(c)]
14. Radiation Monitor - Main Steam Line	2 per loop	E
15. Steam Generator Level (Wide Range)	2[(c)]	F[(c)]
16. Steam Generator Pressure	2[(c)]	E[(c)]
17. Source Range	2	E
18. Subcooling Margin	2	E

(a) Not required for isolation valves whose associated penetration is isolated by at least one closed and deactivated automatic valve, closed manual valve, blind flange, or check valve with flow through the valve secured.

(b) Only one position indication division is required for penetration flow paths with only one installed control room indication division.

(c) Note that more restrictive operability requirements for the associated components are contained in LCO 3.3.1, "Protection System."

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BASES

BACKGROUND (continued)

~~The SICS calculates a margin to saturation by using the safety grade inputs of RCS Hot Leg Pressure, RCS Hot Leg Temperature, and Incore Thermocouples. The margin, both positive and negative, is available for diagnosis of plant transients.~~ As long as adequate subcooling margin exists, core cooling is ensured. If subcooling margin is lost, actions are required to ensure core cooling and restore adequate subcooling margin.

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~~Superheat is used for Inadequate Core Cooling (ICC) determination and initiation of more severe mitigation guidance to restore saturated and ultimately subcooled coolant conditions.~~

----------REVIEWER'S NOTE----------
Table 3.3.2-1 provides a list of variables identified by the unit specific Regulatory Guide 1.97 analyses. Table 3.3.2-1 in unit specific Technical Specifications (TS) shall list all Types A, B, and C variables identified by the unit specific Regulatory Guide 1.97 analyses, as amended by the NRC's Safety Evaluation Report (SER).

The following PAM instrumentation is included in LCO 3.3.2, however, more restrictive operability requirements for the associated components are contained in LCO 3.3.1, "Protection System":

- Containment Service Compartment Pressure (Wide Range),
- Hot Leg Pressure (Wide Range),
- Hot Leg Temperature (Wide Range),
- Intermediate Range,
- Radiation Monitor - Containment High Range,
- Steam Generator (SG) Level (Wide Range),
- SG Pressure.

The specific instrument Functions listed in Table 3.3.2-1 are discussed in the LCO section.

APPLICABLE SAFETY ANALYSES

The PAM instrumentation ensures the OPERABILITY of certain Regulatory Guide 1.97 variables, so that the control room operating staff can:

- Recognize when a heat transfer symptom is occurring that would require performance of the appropriate section in the emergency operating procedures.

- Perform the diagnosis specified in the emergency operating procedures (these variables are restricted to preplanned actions for the primary success path of postulated accidents), e.g., loss of coolant accident (LOCA);

BASES

LCO (continued)

The exception to the two division requirement is Containment Isolation Valve (CIV) Position Indication. In this case, the important information is the status of the containment penetrations. The LCO requires one position indicator for each active CIV. This is sufficient to redundantly verify the isolation status of each isolable penetration either via indicated status of the active valve and prior knowledge of a passive valve, or via system boundary status. If a normally active CIV is known to be closed and deactivated, position indication is not needed to determine status. Therefore, the position indication for valves in this state is not required to be OPERABLE.

PAM variables are required to meet design and qualification requirements for seismic and environmental qualification, single failure criterion, utilization of emergency standby power, immediately accessible display, continuous readout, and recording of display.

~~----------REVIEWER'S NOTE----------~~
~~The Bases must contain a description of variables typical of those identified by the unit specific Regulatory Guide 1.97 analyses. The description in unit specific Technical Specifications (TS) Bases shall list all required variables identified by the unit specific Regulatory Guide 1.97 analyses, as amended by the NRC's Safety Evaluation Report (SER).~~
~~----------~~

~~Listed below are discussions of the specified instrument Functions:[.]~~
Table 3.3.2-1 provides a list of variables identified by the Regulatory Guide 1.97 (Ref. 1) analyses. Type A, B, and C variables are required to meet Regulatory Guide 1.97 design and qualification requirements for seismic and environmental qualification, single failure criterion, utilization of emergency standby power, immediately accessible display, continuous readout, and recording of display.

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Listed below are discussions of the specified instrument Functions listed in Table 3.3.2-1:

1. Cold Leg Temperature (Wide Range)

The Cold Leg Temperature (Wide Range) instrumentation is used to support a credited operator manual action to control the extended partial cooldown during a Steam Generator Tube Rupture (SGTR) event when forced flow exists. It is also used to initiate actions to prevent violating reactor coolant system pressure-temperature limits and low temperature overpressure protection limits.

Four divisions of wide range cold leg temperature are provided with a range of 32°F to 662°F.

BASES

LCO (continued)

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2. Containment Isolation Valve Position Indication

The Containment Isolation Valve (CIV) position indication is used to assess containment integrity.

In the case of CIV position, the important information is the isolation status of the containment penetration. One division of valve position indication is required to be available in the control room for each active CIV in a containment penetration flow path, (i.e., two total divisions of CIV position indication for a penetration flow path with two active valves). For penetrations with only one active CIV having control room indication, Note (b) of Table 3.3.2-1 requires a single division of valves position indication. This is to redundantly verify the isolation status of each isolable penetration via indicated status of the active valve, as applicable, and prior knowledge of passive or system boundary status. If a penetration flow path is isolated, position indication for the CIV(s) in the associated penetration flow path is not needed to determine status. Therefore, the position indication for valves in an isolated penetration flow path is not required. Each penetration is treated separately and each penetration flow path is considered a separate function. Therefore, separate Condition entry is allowed for each inoperable penetration flow path.

3. Containment Service Compartment Pressure (Wide Range)

Containment service compartment pressure indication is used to assess the potential challenge to containment integrity and for verification of adequate containment cooling function.

Four containment wide range pressure indications are available and have a range of -5 to 220 psig.

4. Core Outlet Thermocouples (Wide Range)

Core Outlet Thermocouples are provided for monitoring RCS temperature at the outlet of the core. These thermocouples are used to evaluate the status of reactor core cooling and to indicate the potential for breach of the fuel cladding.

Three thermocouples are provided for each core quadrant and each have a range of 32°F to 2300°F.

BASES

LCO (continued)

5. Emergency Feedwater System Flow

Emergency Feedwater (EFW) flow indication is used by the operator to identify which SGs are supplied by EFW in order to determine which reactor coolant pumps should be stopped during a Feedwater Line Break event. They are also used to determine the status of core heat removal.

Each EFW train has two EFW flow indicators with a range of 0 to 545 gpm.

6. Hot Leg Pressure (Wide Range)

RCS hot leg pressure is used to control RCS pressure during the extended partial cooldown and subsequent cooldown, and in management of the Medium Head Safety Injection (MHSI) system, during a SGTR event. This instrument is also used to control RCS pressure during post accident cooldown to Residual Heat Removal (RHR) conditions, and to detect RHR entry conditions.

16-212 RCS hot leg pressure is also used in conjunction to RCS cold leg temperature (Tcold) to detect conditions approaching RCS Nil Ductility Transition or Pressurized Thermal Shock limits, and in conjunction with core outlet thermocouples to detect inadequate core cooling.

RCS hot leg pressure is also used to provide extended range primary information to the control room operators to indicate potential or actual breach of the RCS pressure boundary.

Four channels of RCS hot leg pressure are provided with a range of 0 to 3000 psig.

7. Hot Leg Temperature (Wide Range)

Hot Leg Temperature (Wide Range) is used to detect RHR entry conditions to support manual operator actions to initiate RHR operation during post accident cooldown.

Four channels of wide range hot leg temperature are provided with a range of 32°F to 662°F.

BASES

LCO (continued)

8. Intermediate Range

Intermediate range nuclear instrumentation is used to detect Anticipated Transient Without Scram events to support contingency actions to manually actuate the Extra Boration System within 30 minutes. This instrumentation is also used post-trip to verify the reactor is shut down.

Four channels of Intermediate Range Detectors are available. They provide an indication of reactor power over a range of $5X10^{-6}$ to 60% RTP.

9. Low Head Safety Injection Flow (Wide Range)

Low Head Safety Injection (LHSI) flow is the primary indicator of LHSI performance; it is used for initiation of contingency actions for insufficient LHSI flow. Safety Injection performance is the only valid indication of sufficient core cooling during loss of subcooling margin.

Two wide range flow indications are available for each of the four LHSI trains. They have a range of 0 to 530 lb_m/sec.

10. Medium Head Safety Injection Flow (Wide Range)

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Medium Head Safety Injection (MHSI) flow is the primary indicator of MHSI performance; it is used for initiation of contingency actions for insufficient MHSI flow. Safety Injection performance is the only valid indication of sufficient core cooling during loss of subcooling margin.

Two wide range flow indications are available for each of the four MHSI trains. These indications have a range of 0 to 180 lb_m /sec.

11. Pressurizer Level

Pressurizer level indication is used to support credited operator manual actions to manage MHSI during a SGTR, and to detect an RCS inventory control upset during the Extra Boration System malfunction event. Pressurizer level is also used to provide information to the operator on the magnitude of an RCS pressure boundary breach in order to support Safety Injection management actions.

Four divisions of pressurizer level (1 per division) are available and have a range of 0 to 100%.

BASES

LCO (continued)

12. Radiation Monitor - Annulus Ventilation System Gamma Activity

These monitors are used to determine the activity present in the exhaust air from the annulus extraction system downstream of the filters to detect a breach of the containment building. This monitor is used for fission product barrier breach detection.

Two monitors with gamma-sensitive detectors are provided with a range of 1E-4 to 1E+4 rad/hr.

13. Radiation Monitor - Containment High Range

Containment high range radiation monitors support the Radioactive Effluent Control Critical Safety Function by providing indication of the potential release source. Containment high range radiation monitors also indicate the potential for breach or the actual breach of the fuel cladding and primary coolant boundary.

Four containment high range radiation monitors are available and have a range of 1E-1 to 1E+7 rad/hr.

14. Radiation Monitor - Main Steam Line

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These monitors are used to detect a SGTR at power and to identify the affected SG in order to support credited operator manual actions for SGTR mitigation.

Four radiation monitors are provided for each steam line and have a range of 1E-4 to 1E+4 µCi/cc.

15. Steam Generator Level (Wide Range)

SG Level (Wide Range) is used to detect SG overfill and to initiate actions to prevent liquid relief through the Main Steam Safety Valves and Main Steam Relief Trains during a SGTR event. This indication is also one of the instruments utilized to detect a loss of secondary heat sink, which requires the operator to initiate Feed and Bleed cooling.

SG Level (Wide Range) is also provided to aid in the monitoring of primary to secondary heat transfer, to determine the need for EFW actuation, and to monitor the performance of SG level control. This instrumentation is also used to initiate actions to mitigate upsets in these functions.

Four wide range level indications are available per SG and have a range of 0 to 100%.

BASES

LCO (continued)

16. Steam Generator Pressure

SG Pressure indication is used to support manual operator actions during a Feedwater Line Break (FWLB). This instrument is also used to determine required SG pressure and to control SG pressure, when establishing SGs as a heat sink. SG Pressure instrumentation is also provided to aid in the monitoring and control of primary to secondary heat transfer, in the verification that the SG is available as a heat sink, and to determine when SG isolation is required.

Four SG Pressure indications are available per SG and have a range of 0 to 1600 psig.

17. Source Range

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Source Range Detectors provide for long term surveillance of core reactivity to assess: 1) whether a return to criticality is approached during plant Cooldown, 2) the need for mitigation efforts to maintain the reactor in a shutdown condition.

The Source Range Detectors consist of 3 divisions. They provide an indication of neutron flux over a range of 0.05 to 5E+4 n/cm^2–s.

18. Subcooling Margin

Subcooling margin instrumentation supports manual actions to align hot leg injection after a Loss of Coolant Accident and to manage MHSI after a SGTR. Subcooling margin is also used to determine when conditions requiring full MHSI are present, and to determine if the conditions that require hot leg injection exist.

Four divisions of Subcooling Margin monitoring instrumentation are provided with a range of 611°F Subcooling Margin to 2088°F Superheat.

APPLICABILITY

The PAM instrumentation LCO is applicable in MODES 1, 2, and 3. These variables are related to the diagnosis and preplanned actions required to mitigate postulated accidents. The applicable postulated accidents are assumed to occur in MODES 1, 2, and 3. In MODES 4, 5, and 6, plant conditions are such that the likelihood of an event occurring that would require PAM instrumentation is low; therefore, PAM instrumentation is not required to be OPERABLE in these MODES.

BASES

ACTIONS (continued)

ACTIONS risk that the PAM Function will be in a degraded condition should an accident occur.

~~D.1 and D.2~~

~~If the Required Action and associated Completion Time of Condition C are not met, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 6 hours and to MODE 4 within 12 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.~~

D.1

Condition D applies when the Required Action and associated Completion Time of Condition C is not met. Required Action D.1 requires entering the appropriate Condition referenced in Table 3.3.2-1 for the division immediately. The applicable Condition referenced in the Table is Function dependent. Each time an inoperable division has not met the Required Action of Condition C, and the associated Completion Time has expired, Condition D is entered for that division and provides for transfer to the appropriate subsequent Condition.

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E.1 and E.2

If the Required Action and associated Completion Time of Condition C is not met and Table 3.3.2-1 directs entry into Condition E, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 6 hours and to MODE 4 within 12 hours.

The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

F.1

For this plant, Core Outlet Thermocouples (Wide Range), EFW Flow, LHSI Flow, MHSI Flow, SG Pressure, SG Level (Wide Range), and Subcooling Margin provide means of monitoring core cooling. The remaining instrumentation may be temporarily utilized if a normal PAM division of the Core Outlet Thermocouples (Wide Range), LHSI Flow, or MHSI Flow cannot be restored to OPERABLE status within the allotted time. If these temporary means are used, the Required Action is not to

BASES

ACTIONS (continued)

shut down the unit but rather to follow the directions of Specification 5.6.5 in the Administrative Controls section of the TS. The report provided to the NRC should discuss the means used, describe the degree to which the means are equivalent to the installed PAM divisions, justify the areas in which they are not equivalent, and provide a schedule for restoring the normal PAM divisions.

SURVEILLANCE REQUIREMENTS

A Note at the beginning of the SR Table specifies that the following SR applies to each PAM instrumentation Function.

SR 3.3.2.1

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A CALIBRATION is performed every 24 months or approximately every refueling. CALIBRATION is a complete check of the instrument division including the sensor. The Surveillance verifies the function responds to the measured parameter within the necessary range and accuracy.

The Frequency is based upon operating experience and consistency with the typical industry refueling cycle and is justified by the assumption of a 24 month CALIBRATION interval for the determination of the magnitude of equipment drift.

REFERENCES

1. Regulatory Guide 1.97, Revision 4, June 2006.~~NUREG 0737, Supplement 1.~~