

**APR1400 DCD TIER 2**

The implementation of the APR1400 Equipment Qualification is described in the KHNP Technical Report on the APR1400 Equipment Qualification Program (Reference 1), hereinafter referred to APR1400 EQP. Seismic qualification of the equipment is described in Section 3.10 and the APR1400 EQP in detail.

### 3.11.1 Equipment Location and Environmental Conditions

#### 3.11.1.1 Equipment Location

Plant areas for equipment important to safety are divided into two based on the environmental conditions that potentially could occur within these areas as a result of a variety of plant events.

a. Harsh environment

An environment where a significant increase in pressure, temperature, relative humidity, or chemical environment occurs as a result of a design basis accident, or where a total integrated dose (TID) of greater than 100 Gy is predicted. In electronic components such as semiconductors, the total integrated dose is greater than 10 Gy. Detailed information is included in the APR1400 EQP.

b. Mild environment

An environment that would at no time be significantly more severe than the environment that would occur during normal plant operation, including anticipated operational occurrences. Any area that is not a harsh environment is a mild environment.

Each zone is subdivided into various subzones according to the severity of environmental parameters and ~~its detailed information on the identification and location is described in Table 3.11-3 and APR1400 EQP.~~

The COL applicant is to identify and qualify the site-specific mechanical, electrical, I&C, and certain accident monitoring equipment specified in RG 1.97 (COL 3.11(1)).

its detailed information on the identification and location of equipment and TID values for each room is described in Table 3 of APR1400 EQP.

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~~Table 3.11-2 (1 of 5)~~~~Environmental Data~~

<del>Environmental Parameters</del> <sup>(2)</sup>	<del>Range and Duration</del>
<del>Containment Building Category A-1 (LOCA)</del>	
<del>Temperature, °C (°F)</del>	<del>Figure 3.11-1</del>
<del>Pressure, psig</del>	<del>Figure 3.11-1</del>
<del>Relative humidity, %</del>	<del>100, saturated/superheated steam/air mixture</del>
<del>Radiation, 60-yr TID Gy plus LOCA</del> <sup>(1), (3), (4)</sup>	<del>&lt; 3.4 × 10<sup>5</sup> gamma &lt; 2 × 10<sup>6</sup> beta</del>
<del>Chemical spray</del>	<del>4,400 ppm Boron as H<sub>3</sub>BO<sub>3</sub>, 0–50 ppm Hydrazine as N<sub>2</sub>H<sub>4</sub>, pH of 4–10 up to 4 hours and 7.0 to 8.5 after 4 hours using tri-sodium phosphate</del>
<del>Containment Building Category A-2 (MSLB)</del>	
<del>Temperature, °C (°F)</del>	<del>Figure 3.11-1</del>
<del>Pressure, psig</del>	<del>Figure 3.11-1</del>
<del>Relative humidity, %</del>	<del>100 saturated/superheated steam/air mixture</del>
<del>Radiation, 60-yr TID Gy plus Non-LOCA</del> <sup>(1), (3)</sup>	<del>Bounded by Category A-1</del>
<del>Chemical spray</del>	<del>4,400 ppm Boron as H<sub>3</sub>BO<sub>3</sub>, 0–50 ppm Hydrazine as N<sub>2</sub>H<sub>4</sub>, pH of 4–10 up to 4 hours and 7.0 to 8.5 after 4 hours using tri-sodium phosphate</del>
<del>Containment Building Category B (Normal)</del>	
<del>Temperature, °C (°F)</del>	<del>10–49 (50–120)</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>5–90</del>
<del>Radiation, 60-yr TID Gy</del> <sup>(3)</sup>	<del>&lt; 3 × 10<sup>4</sup> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Auxiliary Building Category C (Normal)</del>	
<del>Temperature, °C (°F)</del>	<del>10–40 (50–104)</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>7–90</del>

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~~Table 3.11-2 (2 of 5)~~

<del>Environmental Parameters <sup>(2)</sup></del>	<del>Range and Duration</del>
<del>Radiation, 60-yr TID Gy</del>	<del>&lt; 5.25 × 10<sup>2</sup> gamma (accessible areas and I&amp;C equipment) &lt; 1.5 × 10<sup>1</sup> gamma (RTSG, DRCS) &lt; 1.88 × 10<sup>5</sup> gamma (VCT) &lt; 4.1 × 10<sup>7</sup> gamma (purification ion exchanger)</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Auxiliary Building Category D (LOCA/MSLB)</del>	
<del>Temperature, °C (°F)</del>	<del>10 40 (50 104)</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>7 90, limited to 8 hours Outside normal range of Category C</del>
<del>Radiation, 60-yr TID Gy plus LOCA/MSLB <sup>(1), (4)</sup></del>	<del>&lt; 1.0 × 10<sup>4</sup> gamma (accessible areas and I&amp;C equipment) &lt; 1.5 × 10<sup>1</sup> gamma (RTSG, DRCS) &lt; 1.88 × 10<sup>5</sup> gamma (VCT) &lt; 4.1 × 10<sup>7</sup> gamma (purification ion exchanger)</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Auxiliary Building Category E (HELB)</del>	
<del>Temperature, °C (°F)</del>	<del>54 171 (150 340), 0 1 second 171 (340), 1 second 2 hours 171 54 (340 130), 2 24 hours</del>
<del>Pressure, psig</del>	<del>5 (HELB Areas except for Turbine Driven AFWP Room/Vent, Main Steam Enclosure) 6 (Turbine Driven AFWP Room) 12 (Turbine Driven AFWP Vent) 24 (Main Steam Enclosure)</del>
<del>Relative humidity, %</del>	<del>100, 0 3 minutes; 7 90, after 3 minutes (limited to 8 hours outside the normal range of Category C unless otherwise specified)</del>
<del>Radiation, 60-yr TID Gy</del>	<del>same as Category C</del>
<del>Chemical spray</del>	<del>N/A</del>

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~~Table 3.11-2 (3 of 5)~~

<del>Environmental Parameters <sup>(2)</sup></del>	<del>Range and Duration</del>
<del>Fuel Handling Area – Category F (Normal)</del>	
<del>Temperature, °C (°F)</del>	<del>10 – 40 (50 – 104), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>7 – 90, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt; 1.5 \times 10^{-1}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Fuel Handling Area – Category G (LOCA/MSLB)</del>	
<del>Temperature, °C (°F)</del>	<del>10 – 40 (50 – 104) continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>20 – 90, continuous</del>
<del>Radiation, 60-yr TID Gy <sup>(4)</sup></del>	<del><math>&lt; 1.0 \times 10^{-3}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Emergency Diesel Generator Area – Category H (Normal)</del>	
<del>Temperature, °C (°F)</del>	<del>10 – 50 (50 – 122), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>7 – 90, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt; 6.3 \times 10^{-4}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Control Room Area – Category J (Normal/DBA)</del>	
<del>Temperature, °C (°F)</del>	<del>21 – 25 (70 – 77), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>40 – 60, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt; 1.5 \times 10^{-4}</math> gamma (control room and electrical equipment room)</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Outside Areas – Category K (Normal/DBA)</del>	
<del>Temperature, °C (°F)</del>	<del>–40 – 46 (–40 – 115), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>3 – 100, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt; 1.5 \times 10^{-4}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>

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~~Table 3.11-2 (4 of 5)~~

<del>Environmental Parameters <sup>(2)</sup></del>	<del>Range and Duration</del>
<del>Main Steam Valve House Category L (Normal)</del>	
<del>Temperature, °C (°F)</del>	<del>10–49 (50–120), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>20–90, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt;1.5 \times 10^{-1}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Main Steam Valve House Category M (MSLB)</del>	
<del>Temperature, °C (°F)</del>	<del>40–182 (104–360), 0–5 seconds 182 (360), 5–100 seconds 182–216 (360–420), 100–200 seconds 216 (420), 200 seconds–30 minutes 216–40 (420–104), 30 minutes–24 hours</del>
<del>Pressure, psig</del>	<del>3, 0–15 minutes, atmospheric continuous</del>
<del>Relative humidity, %</del>	<del>100, 0–15 minutes, 20–90, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt;1.0 \times 10^{-4}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Turbine Building Category N (Normal)</del>	
<del>Temperature, °C (°F)</del>	<del>10–40 (50–104), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>Relative humidity for the temperature range 60 °F–80 °F is 95 % Relative humidity for temperatures above 80 °F is a fixed moisture content equivalent to 95 % relative humidity at 80 °F</del>
<del>Radiation, 60-yr TID Gy</del>	<del>N/A</del>
<del>Chemical spray</del>	<del>N/A</del>
<del>Emergency Diesel Generator Area Category I (LOCA/MSLB)</del>	
<del>Temperature, °C (°F)</del>	<del>10–50 (50–122), continuous</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous</del>
<del>Relative humidity, %</del>	<del>7–90, continuous</del>
<del>Radiation, 60-yr TID Gy</del>	<del><math>&lt;6.3 \times 10^{-1}</math> gamma</del>
<del>Chemical spray</del>	<del>N/A</del>

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~~Table 3.11-2 (5 of 5)~~

<del>Environmental Parameters <sup>(2)</sup></del>	<del>Range and Duration</del>
<del>Turbine Building Category O (LOCA/MSLB)</del>	
<del>Temperature, °C (°F)</del>	<del>166 (330), 0 – 3 minutes; 49 (120), 3 minutes to 4 hours; 16 – 40 (60 – 104), continuous after 4 hours</del>
<del>Pressure, psig</del>	<del>atmospheric, continuous after 3 minutes</del>
<del>Relative humidity, %</del>	<del>Relative humidity for the temperature range 60 °F – 80 °F is 95 % Relative humidity for temperatures above 80 °F is a fixed moisture content equivalent to 95 % relative humidity at 80 °F</del>
<del>Radiation, 60-yr TID, Gy <sup>(1)</sup></del>	<del>N/A</del>
<del>Chemical spray</del>	<del>N/A</del>

- (1) ~~Accident condition gamma radiation dose includes the normal external gamma dose plus that external dose due to the limiting DBA since these are total integrated dose values. The component design dose is the sum of internal (if applicable) plus external radiation doses.~~
- (2) ~~Environment as used in this Table is defined as those conditions surrounding equipment. Equipment specifications take into consideration both the environment and those process conditions internal to the equipment.~~
- (3) ~~Outside the biological shield.~~
- (4) ~~The post LOCA radiation environment in this region will vary depending on whether or not emergency core cooling operates within its design basis. If emergency core cooling operates as designed, there will be little core damage and a conservative estimate of the radiological release would be 100 percentage of the core gap activity. If emergency core cooling is assumed to fail in the short term but is restored to operation resulting in an “arrested core damage” scenario (to be consistent with the “substantial” core melt accident postulated to satisfy 10 CFR 50.34), the radiological release is assumed to be 100 percent of the core gap activity as well as the early in-vessel core release as discussed in NRC RG 1.183. Table 3.11-1 assumes an arrested core melt scenario integrated over 6 months and is intended to provide an upper bound radiation environment for the region.~~

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Table 3.11-3 is changed to Table 3.11-2.  
This change is made to the remainder  
pages likewise.

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Table 3.11-3 (1 of 51)

Equipment Qualification Equipment List

Updated	Added	Added											
Table 3.11-3 (1 of 51)													
Equipment Qualification Equipment List													
Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
	Auxiliary Feedwater System												
AFW-PP01A	Turbine Driven Aux. Feedwater Pumps	ESF	AB	078-A15C	Continuous	Harsh	Mild	Mechanical EQ	No	I	(3)	SR	
AFW-PP01B	Turbine Driven Aux. Feedwater Pumps	ESF	AB	078-A15D	Continuous	Harsh	Mild	Mechanical EQ	No	I	(3)	SR	
AFW-PP02A	Motor Driven Aux. Feedwater Pumps	ESF	AB	078-A20A	Continuous	Harsh	Mild	Mechanical EQ	No	I	(3)	SR	
AFW-PP02B	Motor Driven Aux. Feedwater Pumps	ESF	AB	078-A20B	Continuous	Harsh	Mild	Mechanical EQ	No	I	(3)	SR	
AFW-V0035	Globe Valve and Actuator, AFW Modulating	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0036	Globe Valve and Actuator, AFW Modulating	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0037	Globe Valve and Actuator, AFW Modulating	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0038	Globe Valve and Actuator, AFW Modulating	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0043	Gate Valve and Actuator, AFW Isolation, CIV	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0044	Gate Valve and Actuator, AFW Isolation, CIV	ESF	AB	COL(7))	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0045	Gate Valve and Actuator, AFW Isolation, CIV	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AFW-V0046	Gate Valve and Actuator, AFW Isolation, CIV	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
	Auxiliary Feedwater Pump Turbine System												
AT-V0007	Globe Valve and Actuator, AFW Pump Turbine Steam Line Drain	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AT-V0008	Globe Valve and Actuator, AFW Pump Turbine Steam Line Drain	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AT-V0009	Globe Valve and Actuator, AFW Pump Turbine Steam Line Isolation	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AT-V0010	Globe Valve and Actuator, AFW Pump Turbine Steam Line Isolation	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
AT-LP01C	AF Pump Turbine Control Panel	ESF	AB	078-A15C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AT-LP01D	AF Pump Turbine Control Panel	ESF	AB	078-A15D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
	Auxiliary Feedwater Storage and Transfer												
AX-LI003A	Field Indicator Device, AFWST 1	ESF	AB	100-A07C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AX-LI004B	Field Indicator Device, AFWST 2	ESF	AB	100-A07D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AX-LI005A	Field Indicator Device, AFWST 2	ESF	AB	100-A07D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AX-LI005C	Field Indicator Device, AFWST 2	ESF	AB	100-A07D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AX-LI005D	Field Indicator Device, AFWST 2	ESF	AB	100-A07D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
Updated													



Table 3.11-2

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Table 3.11-3 (2 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
AX-LI006B	Field Indicator Device, AFWST 1	ESF	AB	100-A07C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AX-LI006C	Field Indicator Device, AFWST 1	ESF	AB	100-A07C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
AX-LI006D	Field Indicator Device, AFWST 1	ESF	AB	100-A07C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
	Component Cooling Water System												
CC-PP03A	Component Cooling Water Make-up Pumps	ESF	AB	078-A29C	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-PP03B	Component Cooling Water Make-up Pumps	ESF	AB	078-A29D	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-PP01A	Component Cooling Water Pumps	ESF	AB	055-A02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-PP01B	Component Cooling Water Pumps	ESF	AB	055-A02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-PP02A	Component Cooling Water Pumps	ESF	AB	055-A02C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-PP02B	Component Cooling Water Pumps	ESF	AB	055-A02D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0011	CCW Surge Tank01A Makeup Isolation	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0012	CCW Surge Tank01B Makeup Isolation	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0021	CCW Heat Exchanger HE01A Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0022	CCW Heat Exchanger HE01B Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0023	CCW Heat Exchanger HE02A Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0024	CCW Heat Exchanger HE02B Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0025	CCW Heat Exchanger HE03A Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0026	CCW Heat Exchanger HE03B Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0027	CCW Heat Exchanger Bypass Isolation	ESF	CCWHXB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0028	CCW Heat Exchanger Bypass Isolation	ESF	CCWHXB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0031	CCW Heat Exchanger HE01A Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0032	CCW Heat Exchanger HE01B Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0033	CCW Heat Exchanger HE02A Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0034	CCW Heat Exchanger HE02B Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0035	CCW Heat Exchanger HE03A Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0036	CCW Heat Exchanger HE03B Outlet	ESF	CCWHXB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0037	CCW Heat Exchanger Bypass Isolation	ESF	CCWHXB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0038	CCW Heat Exchanger Bypass Isolation	ESF	CCWHXB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	O
CC-V0097	Containment Spray Heat Exchanger 01A Inlet Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	O
CC-V0098	Containment Spray Heat Exchanger 01B Inlet Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	O



Table 3.11-2

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Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
CC-V0131	Essential Chiller Condenser 2B Outlet Isolation	ESF	AB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0132	Essential Chiller Condenser 2A Outlet Isolation	ESF	AB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0143	Train A Non-Safety Load Supply Isolation	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0144	Train B Non-Safety Load Supply Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0145	Train A Non-Safety Load Supply Isolation	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0146	Train B Non-Safety Load Supply Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0147	Train A Non-Safety Load Return Isolation	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0148	Train B Non-Safety Load Return Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0149	Train A Non-Safety Load Return Isolation	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0150	Train B Non-Safety Load Return Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0181	DG C Heat Exchanger Inlet Isolation	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0182	DG D Heat Exchanger Inlet Isolation	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0191	DG A Heat Exchanger Inlet Isolation	ESF	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0192	DG B Heat Exchanger Inlet Isolation	ESF	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0231	RCP Cooler Supply Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0249	RCP Cooler Return Containment Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0250	RCP Cooler Return Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0296	Letdown Heat Exchanger Supply Containment Isolation	ESF	AB	COL(7)	Short-Term (40sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0297	Letdown Heat Exchanger Supply Containment Isolation	ESF	RCB	COL(7)	Short-Term (40sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0301	Letdown Heat Exchanger Return Containment Isolation	ESF	RCB	COL(7)	Short-Term (40sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0302	Letdown Heat Exchanger Return Containment Isolation	ESF	AB	COL(7)	Short-Term (40sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0351	SC Heat Exchanger 01A Inlet Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0352	SC Heat Exchanger 01B Inlet Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0383	Essential Chiller Condenser 1A Outlet Isolation	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0384	Essential Chiller Condenser 1B Outlet Isolation	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0389	SFP Clooing Heat Exchanger 02A Inlet Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0390	SFP Clooing Heat Exchanger 02B Inlet Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CC-V0901	Essential Chiller Condenser 1A Outlet Control	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○

Table 3.11-2

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Table 3.11-3 (4 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
CC-V0902	Essential Chiller Condenser 1B Outlet Control	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0905	Essential Chiller Condenser 2A Outlet Control	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0906	Essential Chiller Condenser 2B Outlet Control	ESF	AB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0937	Cross Tie Supply Header Isolation	ESF	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0938	Cross Tie Supply Header Isolation	ESF	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0939	Cross Tie Return Header Isolation	ESF	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V0940	Cross Tie Return Header Isolation	ESF	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
CC-V1001	CCW Pump01A Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1002	CCW Pump01B Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1003	CCW Pump02A Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1004	CCW Pump02B Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1099	CCW Quadrant A to RCP Common Line Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
CC-V1100	RCP Return Pressure Release Line Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
CC-V1107	CCW Surge Tank Tank01A Vacuum Relief	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
CC-V1108	CCW Surge Tank Tank01B Vacuum Relief	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
CC-V1109	N2 Supply to CCW Surge Tank01A Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1110	N2 Supply to CCW Surge Tank01B Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1111	CCW Surge Tank Tank01A Pressure Relief	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
CC-V1112	CCW Surge Tank Tank01B Pressure Relief	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
CC-V1131	CCW Pump Pump01A Recirculation Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1132	CCW Pump Pump01B Recirculation Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1133	CCW Pump Pump02A Recirculation Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1134	CCW Pump Pump02B Recirculation Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1303	CCW Makeup Pump03A Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1304	CCW Makeup Pump03B Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1309	CCW Makeup Pump03A Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1310	CCW Makeup Pump03B Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1317	Demi Water Makeup to Surge Tank01A Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1318	Demi Water Makeup to Surge Tank01B Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1319	Demi Water Makeup to Surge Tank01A Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	

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Table 3.11-3 (5 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
CC-V1320	Demi Water Makeup to Surge Tank01B Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1325	CCW Makeup Pump03A Recirculation Line Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1326	CCW Makeup Pump03B Recirculation Line Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
CC-V1685	L/D Heat Exchanger Inlet Isolation 297 Bypass Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
CC-V1686	L/D Heat Exchanger Outlet Line Pressure Release Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
	Condenser Vacuum System												
CA-CA013	Gate Valve and Actuator, CA Isolation, CIV	ESF	AB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
	Containment Spray System												
CS-PP01A	Containment Spray Pump & Motor	ESF	AB	050-A01C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-PP01B	Containment Spray Pump & Motor	ESF	AB	050-A01D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0001	Containment Spray Header Block	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0002	Containment Spray Header Block	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0003	Containment Spray Header Isolation	ESF	AB	COL(7)	Short-Term (60sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0004	Containment Spray Header Isolation	ESF	AB	COL(7)	Short-Term (60sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0005	CS Heat Exchanger to IRWST Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0006	CS Heat Exchanger to IRWST Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0007	CS Heat Exchanger to IRWST Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V0008	CS Heat Exchanger to IRWST Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
CS-V1001	CS Pump Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I		SR	
CS-V1002	CS Pump Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I		SR	
CS-V1005	CS Heat Exchanger Heat Exchanger01A Thermal Relief To EDT	ESF	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
CS-V1006	CS Heat Exchanger Heat Exchanger01B Thermal Relief To EDT	ESF	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
CS-V1007	Containment Isolation Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
CS-V1008	Containment Isolation Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
CS-V1014	ECSBS Spary Header Check	BDBA	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
	Chemical and Volume Control System												
CV-0505	Globe Valve and Actuator, RCP Controlled Bleedoff, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○

Table 3.11-2

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Table 3.11-3 (6 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
CV-0506	Globe Valve and Actuator, RCP Controlled Bleedoff, CIV	CIV	RCB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0509	Gate Valve and Actuator, IRWST Makeup Line, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0515	Globe Valve and Actuator, Letdown Isolation	To isolate RCS	RCB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0516	Globe Valve and Actuator, Letdown Isolation	To isolate RCS	RCB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0522	Globe Valve and Actuator, Letdown Containment Isolation, CIV	CIV	RCB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0523	Globe Valve and Actuator, Letdown Containment Isolation, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0524	Globe Valve and Actuator, Charging Containment Isolation, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0255	Globe Valve and Actuator, Seal Injection Containment Isolation, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0560	Globe Valve and Actuator, RDT Effluent Containment Isolation, CIV	CIV	RCB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0561	Globe Valve and Actuator, RDT Effluent Containment Isolation, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0580	Gate Valve and Actuator, RSSH to RDH Isolation, CIV	CIV	AB	COL(7)	CONT	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0576	Globe Valve and Actuator, Charging Flow Restricting	To Restrict charging flow	AB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
CV-0577	Globe Valve and Actuator, Charging Flow Restricting	To Restrict charging flow	AB	COL(7)	CONT	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
	Emergency Diesel Generator System												
DG-DG01A	Class 1E Diesel Generator including Engine	EDG	EDGB	100-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
DG-DG01B	Class 1E Diesel Generator including Engine	EDG	EDGB	100-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
DG-DG01C	Class 1E Diesel Generator including Engine	EDG	AB	100-A03C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
DG-DG01D	Class 1E Diesel Generator including Engine	EDG	AB	100-A03D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
DG-DP01A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP02A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP03A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP04A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○



Table 3.11-2

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Table 3.11-3 (7 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-DP05A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP06A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP07A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP08A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP09A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP10A	Control Panels & Cubicles	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP01B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP02B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP03B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP04B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP05B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP06B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP07B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP08B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP09B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP10B	Control Panels & Cubicles	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP01C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP02C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP03C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP04C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP05C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○

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Table 3.11-3 (8 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-DP06C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP07C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP08C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP09C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP10C	Control Panels & Cubicles	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP01D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP02D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP03D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP04D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
DG-DP05D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP06D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP07D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP08D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP09D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
DG-DP10D	Control Panels & Cubicles	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
LP01A	Control Panel	EDG	EDGB	100-H01A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
LP02A	Engine Panel	EDG	EDGB	100-H02A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
LP01B	Control Panel	EDG	EDGB	100-H01B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
LP02B	Engine Panel	EDG	EDGB	100-H02B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
LP01C	Control Panel	EDG	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○
LP02C	Engine Panel	EDG	AB	100-A03C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	○



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Table 3.11-3 (9 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
LP01D	Control Panel	EDG	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
LP02D	Engine Panel	EDG	AB	100-A03D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(3)	SR	O
	Emergency Diesel Engine Cooling Water System												
DG-V4217A	3-Way Thermostatic Control Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4217B	3-Way Thermostatic Control Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4217C	3-Way Thermostatic Control Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4217D	3-Way Thermostatic Control Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4250A	3-Way Thermostatic Control Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4250B	3-Way Thermostatic Control Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4250C	3-Way Thermostatic Control Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4250D	3-Way Thermostatic Control Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4230A	Preheating HT Water Pump Inlet Isolation Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4230B	Preheating HT Water Pump Inlet Isolation Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4230C	Preheating HT Water Pump Inlet Isolation Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4230D	Preheating HT Water Pump Inlet Isolation Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4231A	HT Water Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4231B	HT Water Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4231C	HT Water Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4231D	HT Water Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
	Emergency Diesel Engine Starting Air System												
DG-V4022A	Starting Air Receiver Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4022B	Starting Air Receiver Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4022C	Starting Air Receiver Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4022D	Starting Air Receiver Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4030A	Starting Air Receiver Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4030B	Starting Air Receiver Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4030C	Starting Air Receiver Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4030D	Starting Air Receiver Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4308A	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4308B	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

APR1400 DCD TIER 2

Table 3.11-3 (10 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-V4308C	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4308D	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4309A	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4309B	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4309C	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4309D	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4312A	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4312B	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4312C	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4312D	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4043A	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4043B	Starting Air Common Header Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4043C	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4043D	Starting Air Common Header Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4039A	Starting Air Outlet Regulating Globe Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4039B	Starting Air Outlet Regulating Globe Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4039C	Starting Air Outlet Regulating Globe Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4039D	Starting Air Outlet Regulating Globe Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4040A	Starting Air Outlet Regulating Globe Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4040B	Starting Air Outlet Regulating Globe Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4040C	Starting Air Outlet Regulating Globe Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4040D	Starting Air Outlet Regulating Globe Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5023A	Starting Air Receiver Relief Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5023B	Starting Air Receiver Relief Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5023C	Starting Air Receiver Relief Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5023D	Starting Air Receiver Relief Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5031A	Starting Air Receiver Relief Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (11 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-V5031B	Starting Air Receiver Relief Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5031C	Starting Air Receiver Relief Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V5031D	Starting Air Receiver Relief Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4041A	Over Speed Air Receiver Relief Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4041B	Over Speed Air Receiver Relief Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4041C	Over Speed Air Receiver Relief Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4041D	Over Speed Air Receiver Relief Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4316A	Over Speed Air Receiver Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4316B	Over Speed Air Receiver Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4316C	Over Speed Air Receiver Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4316D	Over Speed Air Receiver Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
	Emergency Diesel Engine Lube Oil System												
DG-V4114A	3-Way Thermostatic Control Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4114B	3-Way Thermostatic Control Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4114C	3-Way Thermostatic Control Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4114D	3-Way Thermostatic Control Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4111A	Lube Oil/Preheating Water Heat Exchanger Outlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4111B	Lube Oil/Preheating Water Heat Exchanger Outlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4111C	Lube Oil/Preheating Water Heat Exchanger Outlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4111D	Lube Oil/Preheating Water Heat Exchanger Outlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4059A	Lube Oil Regulating Gate Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4059B	Lube Oil Regulating Gate Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4059C	Lube Oil Regulating Gate Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4059D	Lube Oil Regulating Gate Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4140A	Lube Oil Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4140B	Lube Oil Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (12 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-V4140C	Lube Oil Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4140D	Lube Oil Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4232A	Pre Lube Oil Pump Inlet Isolation Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4232B	Pre Lube Oil Pump Inlet Isolation Valve	EDG	EDGB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4232C	Pre Lube Oil Pump Inlet Isolation Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4232D	Pre Lube Oil Pump Inlet Isolation Valve	EDG	AB	COL(7)	Short-Term	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4109A	Pre Lube Oil Engine Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4109B	Pre Lube Oil Engine Inlet Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4109C	Pre Lube Oil Engine Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DG-V4109D	Pre Lube Oil Engine Inlet Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
	Emergency Diesel Engine Fuel Oil System												
DO-PP01A	Emergency Diesel Fuel Oil Transfer Pumps	EDG	EDGB	063-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP01B	Emergency Diesel Fuel Oil Transfer Pumps	EDG	EDGB	063-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP01C	Emergency Diesel Fuel Oil Transfer Pumps	EDG	AB	065-A01C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP01D	Emergency Diesel Fuel Oil Transfer Pumps	EDG	AB	065-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP02A	Emergency Diesel Fuel Oil Transfer Pumps	EDG	EDGB	063-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP02B	Emergency Diesel Fuel Oil Transfer Pumps	EDG	EDGB	063-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP02C	Emergency Diesel Fuel Oil Transfer Pumps	EDG	AB	065-A01C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-PP02D	Emergency Diesel Fuel Oil Transfer Pumps	EDG	AB	065-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1005A	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1005B	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1005C	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1005D	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1006A	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1006B	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1006C	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1006D	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1007A	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1007B	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1007C	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
DO-V1007D	Diesel Fuel Transfer Pump Discharge Check Valve	EDG	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	



Table 3.11-2

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Table 3.11-3 (13 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
	Spent Fuel Pool Cooling System												
FC-PP01A	Spent Fuel Pool Cooling Pump	ESF	AB	100-A24A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
FC-PP01B	Spent Fuel Pool Cooling Pump	ESF	AB	100-A32B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
FC-V1005	SFP Cooling Pump01A Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
FC-V1006	SFP Cooling Pump01B Discharge Check	ESF	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
FC-V1145	SFP Cleanup Demineralizer Outlet Header Penetration Check	ESF	AB	COL(7)	Continuous	Mild	Harsh	Mechanical EQ	No	I		SR	
	Main Feedwater System												
FW-V0121	Economizer Main Feedwater Isolation Valve	ESF	AB	137-A31C	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0122	Economizer Main Feedwater Isolation Valve	ESF	AB	137-A31C	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0123	Economizer Main Feedwater Isolation Valve	ESF	AB	137-A31D	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0124	Economizer Main Feedwater Isolation Valve	ESF	AB	137-A31D	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0131	Downcomer Main Feedwater Isolation Valves	ESF	AB	137-A31C	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0132	Downcomer Main Feedwater Isolation Valves	ESF	AB	137-A31C	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0133	Downcomer Main Feedwater Isolation Valves	ESF	AB	137-A31D	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0134	Downcomer Main Feedwater Isolation Valves	ESF	AB	137-A31D	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0138	Feedwater Chemical Injection Isolation Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
FW-V0139	Feedwater Chemical Injection Isolation Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
	Instrument Air System												
IA-V0020	Cylinder Valve and Actuator, CIV	ESF	AB	COL(7)	Short-Term(5 Min)	Mild	Harsh	Electrical EQ	No	I	(3)	SR	
	In-Containment Water Storage System												
IW-V0001	Reactor Cavity Flooding Isolation	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0002	Reactor Cavity Flooding Isolation	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0003	Reactor Cavity Flooding Isolation	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0004	Reactor Cavity Flooding Isolation	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0005	BAMP Suction Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0006	BAMP Suction Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0010	IRWST Level Transmitter (LT-392D) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0011	IRWST Level Transmitter (LT-392D) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0012	HVT Wide Range Level Transmitter (LT-396D) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0013	HVT Wide Range Level Transmitter (LT-396D) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○

Table 3.11-2

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Table 3.11-3 (14 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
IW-V0014	HVT Wide Range Level Transmitter (LT-397C) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0015	HVT Wide Range Level Transmitter (LT-397C) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0016	HVT Narrow Range Level Transmitter (LT-403A) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0017	HVT Narrow Range Level Transmitter (LT-403A) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0018	Reactor Cavity Transmitter (LT-397A) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0019	Reactor Cavity Transmitter (LT-397A) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0020	Reactor Cavity Transmitter (LT-398B) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0021	Reactor Cavity Transmitter (LT-398B) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0022	IRWST Level Transmitter (LT-393C) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0023	IRWST Level Transmitter (LT-393C) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0024	IRWST Level Transmitter (LT-391A) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0025	IRWST Level Transmitter (LT-391A) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0026	IRWST Level Transmitter (LT-390B) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0027	IRWST Level Transmitter (LT-390B) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0028	HVT Wide Range Level Transmitter (LT-394B) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0029	HVT Wide Range Level Transmitter (LT-394B) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0030	HVT Wide Range Level Transmitter (LT-395A) Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0031	HVT Wide Range Level Transmitter (LT-395A) Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0032	Reactor Cavity (LT-399C) Transmitter Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0033	Reactor Cavity (LT-399C) Transmitter Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0034	Reactor Cavity (LT-400D) Transmitter Upper Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V0035	Reactor Cavity (LT-400D) Transmitter Lower Tap Isolation	ESF	AB	COL(7)	Varies	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
IW-V1003	BAMP Suction Line Pressure (Thermal) Relief	ESF	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
	Main Steam System												
MS-V0011	Main Steam Isolation Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0012	Main Steam Isolation Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0013	Main Steam Isolation Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0014	Main Steam Isolation Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0015	Main Steam Isolation Bypass Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○



Table 3.11-2

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Table 3.11-3 (15 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
MS-V0016	Main Steam Isolation Bypass Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0017	Main Steam Isolation Bypass Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0018	Main Steam Isolation Bypass Valve	ESF	AB	COL(7)	Short-Term(5 sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0090	Main Steam Drip Leg Isolation Valve	ESF	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	
MS-V0091	Main Steam Drip Leg Isolation Valve	ESF	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	
MS-V0092	Main Steam Drip Leg Isolation Valve	ESF	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	
MS-V0093	Main Steam Drip Leg Isolation Valve	ESF	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	
MS-V0101	MSADV and Actuator	Dump	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0102	MSADV and Actuator	Dump	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0103	MSADV and Actuator	Dump	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0104	MSADV and Actuator	Dump	AB	COL(7)	Intermittent	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0105	MSADV Isolation Valve and Actuator	Isolation	AB	COL(7)	Varies	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0106	MSADV Isolation Valve and Actuator	Isolation	AB	COL(7)	Varies	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0107	MSADV Isolation Valve and Actuator	Isolation	AB	COL(7)	Varies	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V0108	MSADV Isolation Valve and Actuator	Isolation	AB	COL(7)	Varies	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
MS-V1301	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1302	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1303	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1304	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1305	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1306	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1307	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1308	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1309	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1310	Main Steam Safety Valve	Safety Valve	AB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1311	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1312	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1313	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1314	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1315	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1316	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (16 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
MS-V1317	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1318	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1319	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
MS-V1320	Main Steam Safety Valve	Safety Valve	AB	137-A31D	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
	Compressed Gas System												
NT-V0004	Nitrogen Supply to SITs and RDT CIV, Globe Valve and Actuator	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I	(3)	SR	
	Radiation Monitoring System												
PR-RE/RT-039A	Containment Air Monitor	Leak Detection	AB	100-A22A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-040B	Containment Air Monitor	Leak Detection	AB	100-A22A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-071A	Control Room Air Intake Monitor	ESF	AB	172-A12C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-072B	Control Room Air Intake Monitor	ESF	AB	172-A12C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-073A	Control Room Air Intake Monitor	ESF	AB	172-A12D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-074B	Control Room Air Intake Monitor	ESF	AB	172-A12D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-231A	Containment Operating Area Monitor	ESF, Accident Monitoring	RCB	156-C01	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
PR-RE/RT-232B	Containment Operating Area Monitor	ESF, Accident Monitoring	RCB	156-C01	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
PR-RE/RT-233A	Containment Upper Operating Area Monitor	ESF, Accident Monitoring	RCB	156-C01	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
PR-RE/RT-234B	Containment Upper Operating Area Monitor	ESF, Accident Monitoring	RCB	156-C01	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
PR-RE/RT-241	Spent Fuel Pool Area Monitor	ESF, Accident Monitoring	AB	156-A08B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PR-RE/RT-242	Spent Fuel Pool Area Monitor	ESF, Accident Monitoring	AB	156-A08B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
	Process Sampling System												
PS-V0031	Steam Generator 1 Sample Line from Blowdown Hot Leg CIV, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
PS-V0032	Steam Generator 2 Sample Line from Blowdown Hot Leg CIV, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
PS-V0033	Steam Generator 1 Sample Line from Downcomer CIV, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
PS-V0034	Steam Generator 2 Sample Line from Downcomer CIV, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○

Table 3.11-2

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Table 3.11-3 (17 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
PS-V0035	Steam Generator 1 Sample Line from Blowdown Cold Leg CIV, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
PS-V0036	Steam Generator 2 Sample Line from Blowdown Cold Leg CIV, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
PS-V0257	Steam Generator 1 Primary Sample and Cooler Rack ISO Valve, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
PS-V0258	Steam Generator 2 Primary Sample and Cooler Rack ISO Valve, Gate Valve and Actuator	Accident Monitoring	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
	Primary Sampling System												
PX-V0001	RCS Hotleg Loop1 Sample CIV	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0002	RCS Hotleg Loop1 SAMPLE CIV	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0003	PZR Surge Line Sample CIV	ESF	RCB	COL(7)	Short-Term (15sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0004	PZR Surge Line Sample CIV	ESF	AB	COL(7)	Short-Term (15sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0005	PZR Steam Space Sample CIV	ESF	RCB	COL(7)	Short-Term (15sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0006	PZR Steam Space Sample CIV	ESF	AB	COL(7)	Short-Term (15sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0020	SI Tanks Sample CIV	ESF	AB	COL(7)	Short-Term (15sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0021	SI Tanks Sample CIV	ESF	RCB	COL(7)	Short-Term (15sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0041	Containment Air Sample Line CIV	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0042	Containment Air Sample Line CIV	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0043	Containment Air Sample Line CIV	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V0053	Sample Return To HVT	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
PX-V1005	PASS Sample Return Line Check CIV	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ	No	I		SR	
PX-V1020	Containment Air Sample Return Line Check CIV	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ	No	I		SR	
	Reactor Coolant System												
RC-V0200	Pilot Operated Safety Relief Valve (POSRV)	Overpressure Protection	RCB	136-C02	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)		○
RC-V0201	Pilot Operated Safety Relief Valve (POSRV)	Overpressure Protection	RCB	136-C02	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)		○
RC-V0202	Pilot Operated Safety Relief Valve (POSRV)	Overpressure Protection	RCB	136-C02	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)		○
RC-V0203	Pilot Operated Safety Relief Valve (POSRV)	Overpressure Protection	RCB	136-C02	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)		○

Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (18 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
RC-LP01A	POSRV Master Control Cabinet (2)	POSRV Signal Interface	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
RC-LP01B	POSRV Master Control Cabinet (2)	POSRV Signal Interface	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
RC-LP01C	POSRV Master Control Cabinet (2)	POSRV Signal Interface	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
RC-LP01D	POSRV Master Control Cabinet (2)	POSRV Signal Interface	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
Various	Hydraulic Snubbers for Surge Line	RCPB	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
Various	Steam Generator Supports including Snubbers	RCPB	RCB	100-C02A 100-C02B	short-term	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
Various	Reactor Coolant Pump Supports including Snubbers	RCPB	RCB	100-C02A 100-C02B	short-term	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
	<b>Reactor Gas Vent System</b>												
RG-V0410	PZR Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0411	PZR Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0412	PZR Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0413	PZR Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0414	RX Vessel Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0415	RX Vessel Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0416	RX Vessel Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0417	RX Vessel Gas Vent	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0419	Gas Vent To IRWST	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V0420	Gas Vent To IRWST	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
RG-V1421	RCGVS Vacuum Relief	ESF	RCB	COL(7)	Varies	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
	<b>Service Air System</b>												
SA-V0001	Cylinder Valve and Actuator, CIV	ESF	AB	COL(7)	Short-Term	Mild	Harsh	Mechanical EQ	No	I			
	<b>S/G Blowdown System</b>												
SD-V0005	S/G-1 Blowdown Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
SD-V0006	S/G-2 Blowdown Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
SD-V0007	S/G-1 Blowdown Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SD-V0008	S/G-2 Blowdown Containment Isolation	ESF	AB	COL(7)	Intermittent	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SD-V1115	Wet Lay Up Recir Pump A Discharge Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	



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Table 3.11-3 (19 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SD-V1116	Wet Lay Up Recir Pump B Discharge Check	ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Mechanical EQ	No	I		SR	
	Safety Injection System												
SI-PP02A	Safety Injection Pumps motors	ESF	AB	050-A03A	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	
SI-PP02B	Safety Injection Pumps motors	ESF	AB	050-A03B	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	
SI-PP02C	Safety Injection Pumps motors	ESF	AB	050-A02C	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	
SI-PP02D	Safety Injection Pumps motors	ESF	AB	050-A02D	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	
SI-V0300	Globe Valveand Actuator, IRWST Return Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0301	Gate Valve and Actuator, IRWST Return Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0302	Globe Valve and Actuator, SI Combined Miniflow Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0303	Globe Valve and Actuator, SI Combined Miniflow Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0304	Gate Valve, IRWST Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0305	Gate Valve, IRWST Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0308	Gate Valve, IRWST Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0309	Gate Valve, IRWST Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0321	Globe Valve and Actuator, SI Hot Leg Inject. Line Isol.	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0322	Globe Valve and Actuator, Hot Leg Check Valve Leakage Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0331	Globe Valve and Actuator, SI Hot Leg Injection Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0332	Globe Valve and Actuator, Hot Leg Check Valve Leakage Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0602	Globe Valve and Actuator, SI Low Flow Control Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0603	Globe Valve and Actuator, SI Low Flow Control Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○

Table 3.11-2

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Table 3.11-3 (20 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sesitive
SI-V0604	Gate Valve and Actuator, SI Hot Leg Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0609	Gate Valve and Actuator, SI Hot Leg Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0605	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0606	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0607	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0608	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0611	Globe Valve and Actuator, SIT Fill & Drain Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0621	Globe Valve and Actuator, SIT Fill & Drain Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0631	Globe Valve and Actuator, SIT Fill & Drain Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0641	Globe Valve and Actuator, SIT Fill & Drain Isolation	ESF	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0613	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0623	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0633	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0643	Globe Valve and Actuator, SIT Atmospheric Vent Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0614	Gate Valve, SIT Discharge Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○



Table 3.11-2

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Table 3.11-3 (21 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SI-V0624	Gate Valve, SIT Discharge Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0634	Gate Valve, SIT Discharge Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0644	Gate Valve, SIT Discharge Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0616	Globe Valve and Actuator, SI Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0626	Globe Valve and Actuator, SI Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0636	Globe Valve and Actuator, SI Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0646	Globe Valve and Actuator, SI Line Isolation Valves	ESF	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0618	Globe Valve and Actuator, Check Valve Leakoff Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0628	Globe Valve and Actuator, Check Valve Leakoff Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0638	Globe Valve and Actuator, Check Valve Leakoff Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0648	Globe Valve and Actuator, Check Valve Leakoff Isolation Valves	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0682	Globe Valve and Actuator, SIT Fill Line Isolation	ESF	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
	Shutdown Cooling System												
SI-PP01A	Shutdown Cooling Pump and Motor	RT	AB	050-A04A	Continuous	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	
SI-PP01B	Shutdown Cooling Pump and Motor	RT	AB	050-A04B	Continuous	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (22 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SI-V0310	Globe Valve and Actuator, SDCHX Outlet Flow Control Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0311	Globe Valve and Actuator, SDCHX Outlet Flow Control Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0312	Globe Valve and Actuator, SDCHX Bypass Flow Control Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0313	Globe Valve and Actuator, SDCHX Bypass Flow Control Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0314	Globe Valve and Actuator, SCS Test Return Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0315	Globe Valve and Actuator, SCS Test Return Line Isolation Valves	RT		COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0340	Gate Valve and Actuator, SCS/CSS Pump Suction Cross Connect Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0341	Gate Valve and Actuator, SCS/CSS Pump Discharge Cross Connect Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0342	Gate Valve and Actuator, SCS/CSS Pump Suction Cross Connect Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0343	Gate Valve and Actuator, SCS/CSS Pump Discharge Cross Connect Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0344	Gate Valve and Actuator, SCP Suction Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0346	Gate Valve and Actuator, SCP Suction Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0347	Gate Valve and Actuator, CSP Suction Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0348	CSP Suction Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0391	Gate Valve and Actuator, Reactor Cavity Isolation Valves	RT	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0393	Gate Valve and Actuator, Reactor Cavity Isolation Valves	RT	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0395	Gate Valve and Actuator, Reactor Cavity Isolation Valves	RT	RCB	COL(7)	short-term	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0600	Globe Valve and Actuator, SCS Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○

Table 3.11-2

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Table 3.11-3 (23 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SI-V0601	Globe Valve and Actuator, SCS Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0651	Gate Valve and Actuator, SCS Suction Line Isolation Valves	RT	RCB	100-C02A	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0652	Gate Valve and Actuator, SCS Suction Line Isolation Valves	RT	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0653	Gate Valve and Actuator, SCS Suction Line Isolation Valves	RT	RCB	100-C01	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0654	Gate Valve and Actuator, SCS Suction Line Isolation Valves	RT	RCB	COL(7)	Intermittent	Harsh	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0655	Gate Valve and Actuator, SCS Suction Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0656	Gate Valve and Actuator, SCS Suction Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0688	Gate Valve and Actuator, SCS Test Return Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0693	Gate Valve and Actuator, SCS Test Return Line Isolation Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0690	Globe Valve and Actuator, SCS Warmup Line Flow Control Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
SI-V0691	Globe Valve and Actuator, SCS Warmup Line Flow Control Valves	RT	AB	COL(7)	Intermittent	Mild	Harsh	Mechanical EQ, Electrical EQ	No	I	(3)	SR	○
	Essential Service Water System												
SX-PP01A	Essential Service Water Pump	ESF	ESWPB	081-W01A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-PP01B	Essential Service Water Pump	ESF	ESWPB	081-W01A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-PP02A	Essential Service Water Pump	ESF	ESWPB	081-W01A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-PP02B	Essential Service Water Pump	ESF	ESWPB	081-W01A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-V0045	ESW Pump 01A Discharge	ESF	ESWPB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-V0046	ESW Pump 01B Discharge	ESF	ESWPB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-V0047	ESW Pump 02A Discharge	ESF	ESWPB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-V0048	ESW Pump 02B Discharge	ESF	ESWPB	COL(7)	Varies	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
SX-V1001	ESW Pump 01A Discharge Check	ESF	ESWPB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
SX-V1002	ESW Pump 01B Discharge Check	ESF	ESWPB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	

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Table 3.11-3 (24 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SX-V1003	ESW Pump 02A Discharge Check	ESF	ESWPB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
SX-V1004	ESW Pump 02B Discharge Check	ESF	ESWPB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
SX-V1051	CCW Heat Exchanger Outlet Common Header Vacuum Relief	ESF	ESWPB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
SX-V1052	CCW Heat Exchanger Outlet Common Header Vacuum Relief	ESF	ESWPB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
	Equipment and Floor Drainage System												
DE-V0005	Containment Drain Sump Pump Discharge Line, CIV	ESF	RCB	COL(7)	Short-Term (20sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
DE-V0006	Containment Drain Sump Pump Discharge Line, CIV	ESF	AB	COL(7)	Short-Term (20sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
	Gaseous Radwaste System												
GW-V0001	Reactor Drain Tank Gas Space to GWMS CIV	ESF	RCB	COL(7)	Short-Term (15sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
GW-V0002	Reactor Drain Tank Gas Space to GWMS CIV	ESF	AB	COL(7)	Short-Term (15sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
	Control Room Area HVAC System												
VC-HV01A	Supply AHU	Cooling	AB	174-A24C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-HV01B	Supply AHU	Cooling	AB	174-A24D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-HV01C	Supply AHU	Cooling	AB	174-A23C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VC-HV01D	Supply AHU	Cooling	AB	174-A23D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VC-AU01A	Emergency Makeup ACU	ESF	AB	174-A24C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-AU01B	Emergency Makeup ACU	ESF	AB	174-A24D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0011A	Air Intake Isolation Damper (ESR)	ESF	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0011B	Air Intake Isolation Damper (ESR)	ESF	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0012A	Air Intake Isolation Damper (ESR)	ESF	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0012B	Air Intake Isolation Damper (ESR)	ESF	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0013A	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24C	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0013C	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24C	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0014B	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24D	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0014D	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24D	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0015A	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24C	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0015C	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24C	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0016B	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24D	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0016D	AHU Inlet Isolation Damper (PSR)	ESF	AB	174-A24D	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0017A	ACU Inlet Isolation Damper (ESR)	Open	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○



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Table 3.11-3 (25 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VC-Y0017C	ACU Inlet Isolation Damper (ESR)	Open	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0018B	ACU Inlet Isolation Damper (ESR)	Open	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0018D	ACU Inlet Isolation Damper (ESR)	Open	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0019A	ACU Return Isolation Damper (ESR)	Open	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0019C	ACU Return Isolation Damper (ESR)	Open	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0020B	ACU Return Isolation Damper (ESR)	Open	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0020D	ACU Return Isolation Damper (ESR)	Open	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0021A	AHU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0021C	AHU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A23C	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
VC-Y0022B	AHU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0022D	AHU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A23D	Continuous	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
VC-Y0023A	ACU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0023C	ACU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A24C	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0024B	ACU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0024D	ACU Discharge Flow Control Damper (ESR)	Modulation	AB	174-A24D	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VC-Y0027	Kitchen & Toilet Isolation Damper (PSR)	ESF	AB	157-A02C	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VC-Y0028	Kitchen & Toilet Isolation Damper (PSR)	ESF	AB	195-A09C	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VC-Y0029	Smoke Removal Duct Isolation Damper (PSR)	ESF	AB	174-A24D	Short-Term (5sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VC-Y0030	Smoke Removal Duct Isolation Damper (PSR)	ESF	AB	174-A03D	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
	Emergency Diesel Generator Area HVAC System												
VD-HV10A	EDG Control Room Cubicle Cooler	Cooling	EDGB	100-H01A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV10B	EDG Control Room Cubicle Cooler	Cooling	EDGB	100-H01B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV10C	EDG Control Room Cubicle Cooler	Cooling	AB	100-A02C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV10D	EDG Control Room Cubicle Cooler	Cooling	AB	100-A02D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV11A	EDG Room Normal Supply AHU	Cooling	EDGB	135-H03A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VD-HV11B	EDG Room Normal Supply AHU	Cooling	EDGB	135-H03B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VD-HV11C	EDG Room Normal Supply AHU	Cooling	AB	174-A14C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VD-HV11D	EDG Room Normal Supply AHU	Cooling	AB	174-A14D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VD-HV12A	EDG Room Emergency Cubicle Cooler	Cooling	EDGB	100-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV13A	EDG Room Emergency Cubicle Cooler	Cooling	EDGB	100-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (26 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VD-HV12B	EDG Room Emergency Cubicle Cooler	Cooling	EDGB	100-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV13B	EDG Room Emergency Cubicle Cooler	Cooling	EDGB	100-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV12C	EDG Room Emergency Cubicle Cooler	Cooling	AB	100-A03C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV13C	EDG Room Emergency Cubicle Cooler	Cooling	AB	100-A03C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV12D	EDG Room Emergency Cubicle Cooler	Cooling	AB	100-A03D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HV13D	EDG Room Emergency Cubicle Cooler	Cooling	AB	100-A03D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH02A	EDG Room Exhaust Fan	Ventilation	EDGB	100-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH02B	EDG Room Exhaust Fan	Ventilation	EDGB	100-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH02C	EDG Room Exhaust Fan	Ventilation	AB	174-A01C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH02D	EDG Room Exhaust Fan	Ventilation	AB	174-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH05A	Diesel Fuel Oil Storage Tank Room Supply Fan	Ventilation	EDGB	063-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH05B	Diesel Fuel Oil Storage Tank Room Supply Fan	Ventilation	EDGB	063-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH05C	Diesel Fuel Oil Storage Tank Room Supply Fan	Ventilation	AB	065-A01C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH05D	Diesel Fuel Oil Storage Tank Room Supply Fan	Ventilation	AB	065-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH06A	Diesel Fuel Oil Storage Tank Room Exhaust Fan	Ventilation	EDGB	063-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH06B	Diesel Fuel Oil Storage Tank Room Exhaust Fan	Ventilation	EDGB	063-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH06C	Diesel Fuel Oil Storage Tank Room Exhaust Fan	Ventilation	AB	065-A01C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH06D	Diesel Fuel Oil Storage Tank Room Exhaust Fan	Ventilation	AB	065-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH07A	Diesel Fuel Oil Day Tank & L.O. Makeup Tank Room Exhaust Fan	Ventilation	EDGB	100-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH07B	Diesel Fuel Oil Day Tank & L.O. Makeup Tank Room Exhaust Fan	Ventilation	EDGB	100-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH07C	Diesel Fuel Oil Day Tank & L.O. Makeup Tank Room Exhaust Fan	Ventilation	AB	120-A04C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-AH07D	Diesel Fuel Oil Day Tank & L.O. Makeup Tank Room Exhaust Fan	Ventilation	AB	120-A04D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VD-HC01A	EDG Room Electric Duct Heater	Heating	EDGB	100-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VD-HC01B	EDG Room Electric Duct Heater	Heating	EDGB	100-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VD-HC02A	Diesel Fuel Oil Storage Tank Room Electric Duct Heater	Heating	EDGB	063-H02A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VD-HC02B	Diesel Fuel Oil Storage Tank Room Electric Duct Heater	Heating	EDGB	063-H02B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VD-HC02C	Diesel Fuel Oil Storage Tank Room Electric Duct Heater	Heating	AB	065-A01C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VD-HC02D	Diesel Fuel Oil Storage Tank Room Electric Duct Heater	Heating	AB	065-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○



Table 3.11-2

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Table 3.11-3 (27 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
	Electrical and I&C Equipment Areas HVAC System												
VE-HV01A	Class 1E Switchgear 01C Room Cubicle Cooler	Cooling	AB	078-A02C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV01B	Class 1E Switchgear 01D Room Cubicle Cooler	Cooling	AB	078-A02D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV02A	Class 1E Load Center 01C Room Cubicle Cooler	Cooling	AB	078-A03C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV02B	Class 1E Load Center 01D Room Cubicle Cooler	Cooling	AB	078-A03D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV03A	Train - A DC&IP Equip. Room Cubicle Cooler	Cooling	AB	078-A56A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV03B	Train - B DC&IP Equip. Room Cubicle Cooler	Cooling	AB	078-A56B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV04A	Train - C DC&IP Equip. Room Cubicle Cooler	Cooling	AB	078-A05C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV04B	Train - D DC&IP Equip. Room Cubicle Cooler	Cooling	AB	078-A05D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV06A	480V Class 1E MCC 01A Room Cubicle Cooler	Cooling	AB	100-A12A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV06B	480V Class 1E MCC 01B Room Cubicle Cooler	Cooling	AB	100-A12B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV07A	Class 1E Switchgear 01A Room Cubicle Cooler	Cooling	AB	078-A25A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV07B	Class 1E Switchgear 01B Room Cubicle Cooler	Cooling	AB	078-A25B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV08B	Swing Load Center Room Cubicle Cooler	Cooling	AB	078-A58B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV09A	Electrical Penetration Room C Cubicle Cooler	Cooling	AB	120-A09C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV09B	Electrical Penetration Room D Cubicle Cooler	Cooling	AB	120-A09D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV10A	480V Class 1E MCC 03C Room Cubicle Cooler	Cooling	AB	137-A10C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV10B	480V Class 1E MCC 03D Room Cubicle Cooler	Cooling	AB	137-A10D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV11A	Electrical Penetration Room Cubicle Cooler	Cooling	AB	137-A11C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV11B	Electrical Penetration Room Cubicle Cooler	Cooling	AB	137-A11D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV12A	Penetration, Mux Room A Cubicle Cooler	Cooling	AB	137-A17A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV12B	Penetration Mux Room B Cubicle Cooler	Cooling	AB	137-A17B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV13A	Electrical Penetration Room Cubicle Cooler	Cooling	AB	137-A18A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV13B	Electrical Penetration Room Cubicle Cooler	Cooling	AB	137-A18B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV14A	480V Class 1E MCC 03A Room Cubicle Cooler	Cooling	AB	137-A23A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV14B	480V Class 1E MCC 03B Room Cubicle Cooler	Cooling	AB	120-A15B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV15A	480V Class 1E MCC 04A Room Cubicle Cooler	Cooling	AB	137-A15A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV15B	480V Class 1E MCC 04B Room Cubicle Cooler	Cooling	AB	137-A15B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV16A	I&C Equipment Room Cubicle Cooler	Cooling	AB	157-A25C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV16B	I&C Equipment Room Cubicle Cooler	Cooling	AB	157-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV17A	I&C Equipment Room Cubicle Cooler	Cooling	AB	157-A19C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (28 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VE-HV17B	I&C Equipment Room Cubicle Cooler	Cooling	AB	157-19D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV18A	Remote Shutdown Room Cubicle Cooler	Cooling	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HV18B	Remote Shutdown Room Cubicle Cooler	Cooling	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH20A	Train - A Battery Room Supply Fan	Ventilation	AB	100-A11A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH20B	Train - B Battery Room Supply Fan	Ventilation	AB	100-A11B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH20C	Train - C Battery Room Supply Fan	Ventilation	AB	078-A06C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH20D	Train - D Battery Room Supply Fan	Ventilation	AB	078-A06D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH21A	Train - A Battery Room Exhaust Fan	Ventilation	AB	078-A11C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH21B	Train - B Battery Room Exhaust Fan	Ventilation	AB	100-A11B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH21C	Train - C Battery Room Exhaust Fan	Ventilation	AB	078-A11C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH21D	Train - D Battery Room Exhaust Fan	Ventilation	AB	078-A11D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH22A	Remote Shutdown Room Supply Fan	Ventilation	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH22B	Remote Shutdown Room Supply Fan	Ventilation	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH23A	Remote Shutdown Room Exhaust Fan	Ventilation	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-AH23B	Remote Shutdown Room Exhaust Fan	Ventilation	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VE-HC01A	Train - A Battery Room Electrical Duct Heater	Heating	AB	100-A11A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC01B	Train - B Battery Room Electrical Duct Heater	Heating	AB	100-A11B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC01C	Train - C Battery Room Electrical Duct Heater	Heating	AB	078-A06C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC01D	Train - D Battery Room Electrical Duct Heater	Heating	AB	078-A07D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC02A	Class 1E Switchgear 01A Room Electrical Duct Heater	Heating	AB	078-A25A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC02B	Class 1E Switchgear 01B Room Electrical Duct Heater	Heating	AB	078-A25B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC03A	Remote Shutdown Room Electrical Duct Heater	Heating	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC03B	Remote Shutdown Room Electrical Duct Heater	Heating	AB	137-A43D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC04A	I&C Equipment Room Electrical Duct Heater	Heating	AB	157-A25C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC04B	I&C Equipment Room Electrical Duct Heater	Heating	AB	157-A01D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC05C	I&C Equipment Room Electrical Duct Heater	Heating	AB	157-A19C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC05D	I&C Equipment Room Electrical Duct Heater	Heating	AB	157-A19D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC06A	Elect Penetration A Room Electrical Duct Heater	Heating	AB	137-A18A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC06B	Elect Penetration B Room Electrical Duct Heater	Heating	AB	137-A18B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC07A	480V Class 1E MCC 03A Room Elec. Duct Heater	Heating	AB	137-A23A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC07B	480V Class 1E MCC 03B Room Elec. Duct Heater	Heating	AB	120-A15B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (29 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VE-HC08A	480V Class 1E 04A MCC 04A Room Elec. Duct Heater	Heating	AB	137-A15A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC09A	Penetration Mux A Room Electrical Duct Heater	Heating	AB	137-A17A	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC09B	Penetration Mux B Room Electrical Duct Heater	Heating	AB	137-A17B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
VE-HC10B	Swing Load Center Room Electrical Duct Heater	Heating	AB	078-A58B	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	○
	Fuel Handling Area HVAC System												
VF-AU02A	Emergency Exhaust ACU	ESF	FHA	120-A24A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VF-AU02B	Emergency Exhaust ACU	ESF	FHA	120-A25A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VF-HV02A	SFP HX Room Cubicle Cooler	Cooling	FHA	100-A24A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VF-HV02B	SFP HX Room Cubicle Cooler	Cooling	FHA	100-A32B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VF-Y0001A	Air Intake Isolation Damper (PSR)	ESF	FHA	100-A36B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VF-Y0002B	Air Intake Isolation Damper (PSR)	ESF	FHA	100-A36B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VF-Y0003A	Normal Exhaust ACU Isolation Damper (PSR)	ESF	FHA	100-A38A	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VF-Y0004B	Normal Exhaust ACU Isolation Damper (PSR)	ESF	FHA	100-A38A	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VF-Y0005A	Emergency Exhaust ACU Isolation Damper (ESR)	Open	FHA	137-A25A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VF-Y0006B	Emergency Exhaust ACU Isolation Damper (ESR)	Open	FHA	120-A24A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VF-Y0007A	Emergency Exhaust Flow Control Damper (ESR)	Modulation	FHA	137-A25A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VF-Y0008B	Emergency Exhaust Flow Control Damper (ESR)	Modulation	FHA	120-A24A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
	Auxiliary Building Controlled Area HVAC System												
VK-AU01A	Aux. Bldg Controlled Area I Emergency Exhaust ACU	ESF	AB	120-A21A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-AU01C	Aux. Bldg Controlled Area I Emergency Exhaust ACU	ESF	AB	120-A32A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-AU01B	Aux. Bldg Controlled Area II Emergency Exhaust ACU	ESF	AB	120-A29B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-AU01D	Aux. Bldg Controlled Area II Emergency Exhaust ACU	ESF	AB	120-A30B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-HV10A	CS Pump & Miniflow Heat Exchanger Room Cubicle Cooler	Cooling	AB	050-A01C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV10B	CS Pump & Miniflow Heat Exchanger Room Cubicle Cooler	Cooling	AB	050-A01D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV11A	SI Pump Room Cubicle Cooler	Cooling	AB	050-A02C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV11B	SI Pump Room Cubicle Cooler	Cooling	AB	050-A02D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV12A	SI Pump Room Cubicle Cooler	Cooling	AB	050-A03A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV12B	SI Pump Room Cubicle Cooler	Cooling	AB	050-A03B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV13A	CCW Pump Room Cubicle Cooler	Cooling	AB	055-A02A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VK-HV13B	CCW Pump Room Cubicle Cooler	Cooling	AB	055-A02B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (30 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VK-HV14A	CCW Pump Room Cubicle Cooler	Cooling	AB	055-A02C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VK-HV14B	CCW Pump Room Cubicle Cooler	Cooling	AB	055-A02D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VK-HV15A	CS Heat Exchanger Room Cubicle Cooler	Cooling	AB	055-A01C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV15B	CS Heat Exchanger Room Cubicle Cooler	Cooling	AB	055-A01D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV16A	SC Pump & Miniflow Heat Exchanger Room Cubicle Cooler	Cooling	AB	050-A04A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV16B	SC Pump & Miniflow Heat Exchanger Room Cubicle Cooler	Cooling	AB	050-A04B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV17A	SC Heat Exchanger Room Cubicle Cooler	Cooling	AB	055-A30A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV17B	SC Heat Exchanger Room Cubicle Cooler	Cooling	AB	055-A30B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV18A	Charging Pump Room Cubicle Cooler	Cooling	AB	055-A42A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV18B	Charging Pump Room Cubicle Cooler	Cooling	AB	055-A55B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV19A	Mechanical Penetration Room Cubicle Cooler	Cooling	AB	100-A13A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV19B	Mechanical Penetration Room Cubicle Cooler	Cooling	AB	100-A13B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV20A	Mechanical Penetration Room Cubicle Cooler	Cooling	AB	120-A16A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV20B	Mechanical Penetration Room Cubicle Cooler	Cooling	AB	120-A16B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV21B	Aux. Charging Pump Room Cubicle Cooler	Cooling	AB	055-A54B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV22A	Aux. Bldg Controlled Area Emergency Exhaust ACU Room Cubicle Cooler	Cooling	AB	120-A21A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV22B	Aux. Bldg Controlled Area Emergency Exhaust ACU Room Cubicle Cooler	Cooling	AB	120-A29B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV23A	Aux. Bldg Controlled Area Emergency Exhaust ACU Room Cubicle Cooler	Cooling	AB	120-A32A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-HV23B	Aux. Bldg Controlled Area Emergency Exhaust ACU Room Cubicle Cooler	Cooling	AB	120-A30B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
VK-Y0001A	Aux. Bldg Controlled Area Emergency Exhaust ACU Flow Control Damper (ESR)	Modulation	AB	120-A21A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	
VK-Y0001B	Aux. Bldg Controlled Area Emergency Exhaust ACU Flow Control Damper (ESR)	Modulation	AB	120-A29B	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VK-Y0001C	Aux. Bldg Controlled Area Emergency Exhaust ACU Flow Control Damper (ESR)	Modulation	AB	120-A32A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VK-Y0001D	Aux. Bldg Controlled Area Emergency Exhaust ACU Flow Control Damper (ESR)	Modulation	AB	120-A30B	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VK-Y0002A	Aux. Bldg Controlled Area Emergency Exhaust ACU Isolation Damper (ESR)	Open	AB	120-A32A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VK-Y0002B	Aux. Bldg Controlled Area Emergency Exhaust ACU Isolation Damper (ESR)	Open	AB	120-A29B	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○



Table 3.11-2

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Table 3.11-3 (31 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VK-Y0002C	Aux. Bldg Controlled Area Emergency Exhaust ACU Isolation Damper (ESR)	Open	AB	120-A21A	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VK-Y0002D	Aux. Bldg Controlled Area Emergency Exhaust ACU Isolation Damper (ESR)	Open	AB	120-A30B	Continuous	Mild	Harsh	Electrical EQ	No	I	(3)	SR	○
VK-Y0017A	Aux. Bldg Controlled Area Supply AHU Outlet Isolation Damper (PSR)	ESF	AB	100-A20A	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0018A	Aux. Bldg Controlled Area Supply AHU Outlet Isolation Damper (PSR)	ESF	AB	137-A29B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0019B	Aux. Bldg Controlled Area Supply AHU Outlet Isolation Damper (PSR)	ESF	AB	100-A20A	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0020B	Aux. Bldg Controlled Area Supply AHU Outlet Isolation Damper (PSR)	ESF	AB	137-A29B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0021A	Aux. Bldg Controlled Area Normal Exhaust ACU Inlet Isolation Damper (PSR)	ESF	AB	156-A14A	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0022A	Aux. Bldg Controlled Area Normal Exhaust ACU Inlet Isolation Damper (PSR)	ESF	AB	195-A08B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0023B	Aux. Bldg Controlled Area Normal Exhaust ACU Inlet Isolation Damper (PSR)	ESF	AB	156-A14A	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0024B	Aux. Bldg Controlled Area Normal Exhaust ACU Inlet Isolation Damper (PSR)	ESF	AB	195-A08B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VK-Y0050A	Post Accident Sample Room Isolation Damper (PSR)	Open	AB	055-A22A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-Y0050B	Post Accident Sample Room Isolation Damper (PSR)	Open	AB	055-A22B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-Y0050C	Post Accident Sample Room Isolation Damper (PSR)	Open	AB	055-A22A	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
VK-Y0050D	Post Accident Sample Room Isolation Damper (PSR)	Open	AB	055-A22B	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
	Auxiliary Building Clean Area HVAC System												
VO-HV31A	Essential Chiller Room Cubicle Cooler	Cooling	AB	078-A11C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VO-HV31B	Essential Chiller Room Cubicle Cooler	Cooling	AB	078-A12D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VO-HV32A	Essential Chiller Room Cubicle Cooler	Cooling	AB	078-A12C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VO-HV32B	Essential Chiller Room Cubicle Cooler	Cooling	AB	078-A11D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VO-HV33A	Motor- Driven AFW Pump Room Cubicle Cooler	Cooling	AB	078-A20A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
VO-HV33B	Motor- Driven AFW Pump Room Cubicle Cooler	Cooling	AB	078-A20B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
	Reactor Containment Purge System												
VQ-V0012	High Volume Containment Purge System Supply CIV, Butterfly Valve and Actuator	ESF	RCB	156-C01	Short-Term (5sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
VQ-V0011	High Volume Containment Purge System Supply CIV, Butterfly Valve and Actuator	ESF	AB	174-A16B	Short-Term (5sec)	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
VQ-V0013	High Volume Containment Purge System Exhaust CIV, Butterfly Valve Actuator	ESF	RCB	156-C01	Short-Term (5sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○

Table 3.11-2

APR1400 DCD TIER 2

Table 3.11-3 (32 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
VQ-V0014	High Volume Containment Purge System Exhaust CIV, Butterfly Valve Actuator	ESF	AB	174-A16B	Short-Term (5sec)	Mild	Mild	Electrical EQ	No	I	(3)	SR	○
VQ-V0031	Low Volume Containment Purge System Supply CIV, Butterfly Valve and Actuator	ESF	AB	174-A16B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
VQ-V0032	Low Volume Containment Purge System Supply CIV, Butterfly Valve and Actuator	ESF	RCB	156-C01	Short-Term (5sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
VQ-V0033	Low Volume Cont. Purge System Exhaust CIV, Butterfly Valve and Actuator	ESF	RCB	156-C01	Short-Term (5sec)	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	○
VQ-V0034	Low Volume Cont. Purge System Exhaust CIV, Butterfly Valve and Actuator	ESF	AB	174-A16B	Short-Term (5sec)	Mild	Mild	Mechanical EQ	No	I	(3)	SR	○
	Hydrogen Monitoring System												
Various	Hydrogen Analyzers	ESF	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I			
	Plant Chilled Water System												
WI-V013	PCW Supply to Containment Ventilation Units CIV, Gate Valve and Actuator	ESF	AB	100-A16C	Short-Term (60sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
WI-V014	PCW Supply to Containment Ventilation Units CIV, Check Valve	Relief	RCB	114-C01A	Continuous	Harsh	Harsh	Mechanical EQ	No	I	(3)	SR	
WI-V015	PCW Return from Containment Ventilation Units CIV, Gate Valve and Actuator	ESF	RCB	114-C01A	Short-Term (60sec)	Harsh	Harsh	Electrical EQ	No	I	(3)	SR	○
WI-V012	PCW Return from Containment Ventilation Units CIV, Gate Valve and Actuator	ESF	AB	100-A16C	Short-Term (60sec)	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	○
	Essential Chilled Water System												
WO-CH01A	Essential Chiller	Cooling	AB	078-A11C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
WO-CH01B	Essential Chiller	Cooling	AB	078-A11D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
WO-CH02A	Essential Chiller	Cooling	AB	078-A12C	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
WO-CH02B	Essential Chiller	Cooling	AB	078-A12D	Continuous	Mild	Mild	Mechanical EQ	No	I		SR	
WO-PP01A	Essential Chilled Water Pump	Cooling	AB	078-A11C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-PP01B	Essential Chilled Water Pump	Cooling	AB	078-A11D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-PP02A	Essential Chilled Water Pump	Cooling	AB	078-A12C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-PP02B	Essential Chilled Water Pump	Cooling	AB	078-A12D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-PP03A	Essential Chilled Water Make-up Pump	Cooling	AB	120-A10C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-PP03B	Essential Chilled Water Make-up Pump	Cooling	AB	120-A10D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V1001A	ECW Compression Tank Relief valve	Relief	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V1001B	ECW Compression Tank Relief valve	Relief	AB	COL(7)	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	

Table 3.11-2

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Table 3.11-3 (33 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
WO-V0906A	Control Room Supply AHU Chilled Water 3-Way Valve	Cooling	AB	174-A24C	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
WO-V0906B	Control Room Supply AHU Chilled Water 3-Way Valve	Cooling	AB	174-A24D	Continuous	Mild	Harsh	Mechanical EQ	No	I	(3)	SR	
WO-V0906C	Control Room Supply AHU Chilled Water 3-Way Valve	Cooling	AB	174-A23C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V0906D	Control Room Supply AHU Chilled Water 3-Way Valve	Cooling	AB	174-A23D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V0917A	EDG Room Normal Supply AHU Chilled Water 3-Way Valve	Cooling	AB	174-A14C	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V0917B	EDG Room Normal Supply AHU Chilled Water 3-Way Valve	Cooling	AB	174-A14D	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V0918A	EDG Room Normal Supply AHU Chilled Water 3-Way Valve	Cooling	AB	135-H03A	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-V0918B	EDG Room Normal Supply AHU Chilled Water 3-Way Valve	Cooling	AB	135-H03B	Continuous	Mild	Mild	Mechanical EQ	No	I	(3)	SR	
WO-LP01A	Essential Chilled Water System Control Panel	Control	AB	078-A11C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
WO-LP01B	Essential Chilled Water System Control Panel	Control	AB	078-A11D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
WO-LP01C	Essential Chilled Water System Control Panel	Control	AB	078-A12C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
WO-LP01D	Essential Chilled Water System Control Panel	Control	AB	078-A12D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
WO-LI003C	Field Indicator Device	Cooling	AB	174-A06C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
WO-LI003D	Field Indicator Device	Cooling	AB	174-A06D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
	Electric System												
PF-SW01A	4.16kV Metal Clad Switchgear	Power Supply (PS)	AB	078-A25A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PF-SW01B	4.16kV Metal Clad Switchgear	Power Supply (PS)	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PF-SW01C	4.16kV Metal Clad Switchgear	Power Supply (PS)	AB	078-A02C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PF-SW01D	4.16kV Metal Clad Switchgear	Power Supply (PS)	AB	078-A02D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PG-LC01A	480V Load Center	Power Supply (PS)	AB	078-A25A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PG-LC01B	480V Load Center	Power Supply (PS)	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PG-LC01C	480V Load Center	Power Supply (PS)	AB	078-A03C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PG-LC01D	480V Load Center	Power Supply (PS)	AB	078-A03D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PG-LC02	480V Load Center	Power Supply (PS)	AB	078-A58B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH-MC01A	480V Motor Control Center	Power Supply (PS)	AB	100-A12A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (34 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sesitive
PH -MC02A	480V Motor Control Center	Power Supply (PS)	AB	081-W01A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC03A	480V Motor Control Center	Power Supply (PS)	AB	137-A23A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC04A	480V Motor Control Center	Power Supply (PS)	AB	137-A15A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC05A	480V Motor Control Center	Power Supply (PS)	AB	100-H01A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC01B	480V Motor Control Center	Power Supply (PS)	AB	100-A12B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC02B	480V Motor Control Center	Power Supply (PS)	AB	081-W01B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC03B	480V Motor Control Center	Power Supply (PS)	AB	120-A15B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC04B	480V Motor Control Center	Power Supply (PS)	AB	137-A15B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC05B	480V Motor Control Center	Power Supply (PS)	AB	100-H01B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC01C	480V Motor Control Center	Power Supply (PS)	AB	078-A03C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC02C	480V Motor Control Center	Power Supply (PS)	AB	078-A03C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC03C	480V Motor Control Center	Power Supply (PS)	AB	137-A10C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC04C	480V Motor Control Center	Power Supply (PS)	AB	100-A02C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC01D	480V Motor Control Center	Power Supply (PS)	AB	078-A03D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC02D	480V Motor Control Center	Power Supply (PS)	AB	078-A03D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC03D	480V Motor Control Center	Power Supply (PS)	AB	137-A10D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
PH -MC04D	480V Motor Control Center	Power Supply (PS)	AB	100-A02D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ01A	Local Starter	Power Supply (PS)	AB	137A18A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ01B	Local Starter	Power Supply (PS)	AB	137A18B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ01C	Local Starter	Power Supply (PS)	AB	120A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ01D	Local Starter	Power Supply (PS)	AB	120A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ02A	Local Starter	Power Supply (PS)	AB	137A18A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ02B	Local Starter	Power Supply (PS)	AB	137A18B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ02C	Local Starter	Power Supply (PS)	AB	120A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ02D	Local Starter	Power Supply (PS)	AB	120A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ03C	Local Starter	Power Supply (PS)	AB	120A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
RC-SQ03D	Local Starter	Power Supply (PS)	AB	120A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
SI-SQ01C	Local Starter	Power Supply (PS)	AB	120A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○



Table 3.11-2

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Table 3.11-3 (35 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SI-SQ01D	Local Starter	Power Supply (PS)	AB	120A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
SI-SQ02C	Local Starter	Power Supply (PS)	AB	100A22A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
SI-SQ02D	Local Starter	Power Supply (PS)	AB	120A15B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IW-SQ01C	Local Starter	Power Supply (PS)	AB	120A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IW-SQ01D	Local Starter	Power Supply (PS)	AB	120A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IW-SQ02C	Local Starter	Power Supply (PS)	AB	120A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IW-SQ02D	Local Starter	Power Supply (PS)	AB	120A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CV-SQ01B	Local Starter	Power Supply (PS)	AB	137A18B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
VK-SQ01	Local Starter	Power Supply (PS)	AB	055A50B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
Various	Local Control Station	Power Supply (PS)	AB	Various	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BT01A	125Vdc Battery with Rack	Power Supply (PS)	AB	100-A11A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BT01B	125Vdc Battery with Rack	Power Supply (PS)	AB	100-A11B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BT01C	125Vdc Battery with Rack	Power Supply (PS)	AB	078-A07C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BT01D	125Vdc Battery with Rack	Power Supply (PS)	AB	078-A07D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC01A	480Vac/125Vdc Battery Charger	Power Supply (PS)	AB	078-A56A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC01B	480Vac/125Vdc Battery Charger	Power Supply (PS)	AB	078-A56B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC01C	480Vac/125Vdc Battery Charger	Power Supply (PS)	AB	078-A05C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC01D	480Vac/125Vdc Battery Charger	Power Supply (PS)	AB	078-A05D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC02A	480Vac/125Vdc Standby Battery Charger	Power Supply (PS)	AB	078-A56A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC02B	480Vac/125Vdc Standby Battery Charger	Power Supply (PS)	AB	078-A56B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC02C	480Vac/125Vdc Standby Battery Charger	Power Supply (PS)	AB	078-A05C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-BC02D	480Vac/125Vdc Standby Battery Charger	Power Supply (PS)	AB	078-A05D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-MC01A	125Vdc Control Center	Power Supply (PS)	AB	078-A56A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-MC01B	125Vdc Control Center	Power Supply (PS)	AB	078-A56B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-MC01C	125Vdc Control Center	Power Supply (PS)	AB	078-A05C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DC-MC01D	125Vdc Control Center	Power Supply (PS)	AB	078-A05D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-TR01A	480Vac/120Vac Regulating Transformer	Power Supply (PS)	AB	078-A56A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-TR01B	480Vac/120Vac Regulating Transformer	Power Supply (PS)	AB	078-A56B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-TR01C	480Vac/120Vac Regulating Transformer	Power Supply (PS)	AB	078-A05C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-TR01D	480Vac/120Vac Regulating Transformer	Power Supply (PS)	AB	078-A05D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-IN01A	125Vdc/120Vac Inverter	Power Supply (PS)	AB	078-A56A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○

Table 3.11-2

APR1400 DCD TIER 2

Table 3.11-3 (36 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
IP-IN01B	125Vdc/120Vac Inverter	Power Supply (PS)	AB	078-A56B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-IN01C	125Vdc/120Vac Inverter	Power Supply (PS)	AB	078-A05C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IP-IN01D	125Vdc/120Vac Inverter	Power Supply (PS)	AB	078-A05D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
SI-SQ02C	125Vdc Local Starter	Power Supply (PS)	AB	100-A22A	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
SI-SQ02D	125Vdc Local Starter	Power Supply (PS)	AB	120-A15B	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
AF-SQ01C	125Vdc Local Starter	Power Supply (PS)	AB	120-A09C	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
AF-SQ01D	125Vdc Local Starter	Power Supply (PS)	AB	120-A09D	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
Various	Electrical Penetration Assemblies - Medium Voltage Power	Power Supply (PS)	RCB	136-C01A,B	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
Various	Electrical Penetration Assemblies - Low Voltage Power & Control	Power Supply (PS)	RCB	136-C01A,B 114-C01A,B	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
Various	Electrical Penetration Assemblies – Low Voltage Instrumentation	Power Supply (PS)	RCB	136-C01A,B 114-C01A,B	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
Various	Electrical Conductor Sealing Assemblies	Power Supply (PS)	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	5kV Power Cables	Power Supply (PS)	Various	Various	Continuous	Mild/Harsh	Mild/Harsh	Electrical EQ	No	I		SR	
N/A(10)	600V Power Cables	Power Supply (PS)	Various	Various	Continuous	Mild/Harsh	Mild/Harsh	Electrical EQ	No	I		SR	
N/A(10)	600V Control Cables	Various	Various	Various	Continuous	Mild/Harsh	Mild/Harsh	Electrical EQ	No	I		SR	
N/A(10)	600V Instrumentation Cables	Various	Various	Various	Continuous	Mild/Harsh	Mild/Harsh	Electrical EQ	No	I		SR	
N/A(10)	Thermocouple Extension Cables	Various	Various	Various	Continuous	Mild/Harsh	Mild/Harsh	Electrical EQ	No	I		SR	
N/A(10)	Coaxial Cables	Various	Various	Various	Continuous	Mild/Harsh	Mild/Harsh	Electrical EQ	No	I		SR	
N/A(10)	RSPT Type I & II Cable Assemblies	RT	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	ICI Cable Assemblies	PAM	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	HJTC Cable Assemblies	PAM	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	RSPT Type I, II Cable	RT	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	Reed Switch Position Transmitter	RT	RCB	Various	Continuous	Mild	Mild	Electrical EQ	No	I		SR	
N/A(10)	HJTC MI Cables & Connectors	PAM	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	HJTC Probe	PAM	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	ICI MI Cable & Connectors	PAM	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
N/A(10)	ICI Assembly	PAM	RCB	Various	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	
	Instrumentation and Control System											SR	
AFW-FT-0047A	AFW Flow Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-FT-0048B	AFW Flow Transmitter, Channel B	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○

Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (37 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
AFW-FT-0049C	AFW Flow Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-FT-0050D	AFW Flow Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-TE-0053A	AFW Line Back Leakage Temp. Element, Ch. A	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-TE-0054B	AFW Line Back Leakage Temp. Element, Ch. B	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-TE-0053C	AFW Line Back Leakage Temp. Element, Ch. C	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-TE-0054D	AFW Line Back Leakage Temp. Element, Ch. D	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0005A	AFW Pump Suction Pressure Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0006B	AFW Pump Suction Pressure Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0007C	AFW Pump Suction Pressure Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0008D	AFW Pump Suction Pressure Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0023A	AFW Pump Discharge Pressure Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0024B	AFW Pump Discharge Pressure Transmitter, Channel B	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0025C	AFW Pump Discharge Pressure Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-PT-0026D	AFW Pump Discharge Pressure Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AFW-Z-0035A	AFW Flow Modulating Valve Position Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-Z-0036B	AFW Flow Modulating Valve Position Transmitter, Channel B	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-Z-0037C	AFW Flow Modulating Valve Position Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AFW-Z-0038D	AFW Flow Modulating Valve Position Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AT-LT-0003C	AFW Turbine Steam Drip Leg Level Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AT-LT-0004D	AFW Turbine Steam Drip Leg Level, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AT-PT-0013C	AFW Turbine Inlet Steam Pressure Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AT-PT-0014D	AFW Turbine Inlet Steam Pressure Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AT-S(3)035C	AFW Pump Turbine Speed Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AT-S(3)036D	AFW Pump Turbine Speed Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0003A	AFWST 1 Level Transmitter Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0004B	AFWST 2 Level Transmitter, Channel B	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (38 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
AX-LT-0005A	AFWST 2 Level Transmitter, Channel A	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0005C	AFWST 2 Level Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0005D	AFWST 2 Level Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0006B	AFWST 1 Level Transmitter Channel B	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0006C	AFWST 1 Level Transmitter, Channel C	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
AX-LT-0006D	AFWST 1 Level Transmitter, Channel D	Aux. Feedwater	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
CC-FT-0071A	CCW Flow Transmitter, Channel A	Component Cooling WTR.	CCWPH	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CC-FT-0071B	CCW Flow Transmitter, Channel B	Component Cooling WTR.	CCWPH	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CC-TE-069A	CCW Temperature Element, Channel A	Component Cooling WTR.	CCWPH	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CC-TE-070B	CCW Temperature Element, Channel B	Component Cooling WTR.	CCWPH	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CE-SW-01A	RTSS Cabinet (2), Channel A	RT	AB	137-A36C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CE-SW-01B	RTSS Cabinet (2), Channel B	RT	AB	137-A38C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CE-SW-01C	RTSS Cabinet (2), Channel C	RT	AB	137-A35C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CE-SW-01D	RTSS Cabinet (2), Channel D	RT	AB	137-A37C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CM-LP01A	Containment Hydrogen Analyzer Cabinet (2)	Containment Hydrogen Concentration Monitoring	AB	120-A20A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CM-LP01B	Containment Hydrogen Analyzer Cabinet (2)	Containment Hydrogen Concentration Monitoring	AB	120-A36B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CM-LP02A	Containment Hydrogen Analyzer Cabinet (2)	Containment Hydrogen Concentration Monitoring	AB	137-A17A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CM-LP02B	Containment Hydrogen Analyzer Cabinet (2)	Containment Hydrogen Concentration Monitoring	AB	137-A17B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
CM-PT-351A	Containment Pressure Protective (NR) Transmitter	RT/ESF	AB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-PT-351B	Containment Pressure Protective (NR) Transmitter	RT/ESF	AB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-PT-351C	Containment Pressure Protective (NR) Transmitter	RT/ESF	AB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○



Table 3.11-2

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Table 3.11-3 (39 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
CM-PT-351D	Containment Pressure Protective (NR) Transmitter	RT/ESF	AB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-PT-352A	Cont. Pressure Protective (WR) Transmitter	RT/ESF/PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-PT-352B	Cont. Pressure Protective (WR) Transmitter	RT/ESF/PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-PT-352C	Cont. Pressure Protective (WR) Transmitter	RT/ESF	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-PT-352D	Cont. Pressure Protective (WR) Transmitter	RT/ESF	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
CM-TE-031A	Containment Temperature Element	Accident Monitoring	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
CM-LT-027A	CONTAINMENT WATER LEVEL	Accident Monitoring	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CM-LT-028B	CONTAINMENT WATER LEVEL	Accident Monitoring	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
CS-FT-338C	Containment Spray Pump Flow Transmitter	Accident Monitoring	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
CS-FT-348D	Containment Spray Pump Flow Transmitter	Accident Monitoring	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
CS-TE-071C	Containment Spray Temperature Element, HX	Containment Spray	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
CS-TE-072D	Containment Spray Temperature Element, HX	Containment Spray	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ	No	I		SR	○
DG-LI(3)001A	HT Water Expansion Tank Level Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)001B	HT Water Expansion Tank Level Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)001C	HT Water Expansion Tank Level Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)001D	HT Water Expansion Tank Level Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)010A	LT Water Expansion Tank Level Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)010B	LT Water Expansion Tank Level Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)010C	LT Water Expansion Tank Level Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LI(3)010D	LT Water Expansion Tank Level Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001A01	HT Water Expansion Tank Level Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001B01	HT Water Expansion Tank Level Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001C01	HT Water Expansion Tank Level Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001D01	HT Water Expansion Tank Level Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○

Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (40 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-LS'(3)001A02	HT Water Expansion Tank Level Switch High	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001B02	HT Water Expansion Tank Level Switch High	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001C02	HT Water Expansion Tank Level Switch High	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)001D02	HT Water Expansion Tank Level Switch High	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010A01	LT Water Expansion Tank Level Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010B01	LT Water Expansion Tank Level Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010C01	LT Water Expansion Tank Level Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010D01	LT Water Expansion Tank Level Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010A02	LT Water Expansion Tank Level Switch High	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010B02	LT Water Expansion Tank Level Switch High	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010C02	LT Water Expansion Tank Level Switch High	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-LS'(3)010D02	LT Water Expansion Tank Level Switch High	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)086A	Over Speed Air Receiver Pressure Indicator Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)086B	Over Speed Air Receiver Pressure Indicator Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)086C	Over Speed Air Receiver Pressure Indicator Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)086D	Over Speed Air Receiver Pressure Indicator Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)142A	Lube Oil/Preheating Water Heat Exchanger Inlet Pressure Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)142B	Lube Oil/Preheating Water Heat Exchanger Inlet Pressure Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)142C	Lube Oil/Preheating Water Heat Exchanger Inlet Pressure Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)142D	Lube Oil/Preheating Water Heat Exchanger Inlet Pressure Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)176A	Starting Air Receiver Pressure Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)176B	Starting Air Receiver Pressure Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)176C	Starting Air Receiver Pressure Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)176D	Starting Air Receiver Pressure Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)177A	Starting Air Receiver Pressure Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (41 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-PT(3)177B	Starting Air Receiver Pressure Indicator	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT(3)177C	Starting Air Receiver Pressure Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT(3)177D	Starting Air Receiver Pressure Indicator	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)041A	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)041B	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)041C	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)041D	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)042A	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)042B	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)042C	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)042D	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)046A	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)046B	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)046C	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)046D	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)047A	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)047B	Engine Inlet Lube Oil Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)047C	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)047D	Engine Inlet Lube Oil Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)060A	Crankcase Gas Pressure Measurement Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)060B	Crankcase Gas Pressure Measurement Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)060C	Crankcase Gas Pressure Measurement Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)060D	Crankcase Gas Pressure Measurement Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)182A	Starting Air Receiver Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)182B	Starting Air Receiver Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)182C	Starting Air Receiver Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○

Table 3.11-2

APR1400 DCD TIER 2

Table 3.11-3 (42 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-PS'(3)182D	Starting Air Receiver Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)183A	Starting Air Receiver Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)183B	Starting Air Receiver Pressure Switch Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)183C	Starting Air Receiver Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PS'(3)183D	Starting Air Receiver Pressure Switch Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)110A	LT Water Pump Discharge Pressure Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)110B	LT Water Pump Discharge Pressure Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)110C	LT Water Pump Discharge Pressure Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-PT'(3)110D	LT Water Pump Discharge Pressure Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)004A	HT Water Pump Suction Temperature Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)004B	HT Water Pump Suction Temperature Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)004C	HT Water Pump Suction Temperature Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)004D	HT Water Pump Suction Temperature Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)007A	HT Water Outlet Temperature Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)007B	HT Water Outlet Temperature Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)007C	HT Water Outlet Temperature Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)007D	HT Water Outlet Temperature Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)008A	HT Water Outlet Temperature Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)008B	HT Water Outlet Temperature Transmitter	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)008C	HT Water Outlet Temperature Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)008D	HT Water Outlet Temperature Transmitter	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)044A	Lube Oil Engine Inlet Temperature Transmitter Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT'(3)044B	Lube Oil Engine Inlet Temperature Transmitter Low	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○



Table 3.11-2

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Table 3.11-3 (43 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
DG-TT(3)044C	Lube Oil Engine Inlet Temperature Transmitter Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT(3)044D	Lube Oil Engine Inlet Temperature Transmitter Low	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT(3)045A	Lube Oil Engine Inlet Temperature Transmitter High	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT(3)045B	Lube Oil Engine Inlet Temperature Transmitter High	EDG	EDGB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT(3)045C	Lube Oil Engine Inlet Temperature Transmitter High	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
DG-TT(3)045D	Lube Oil Engine Inlet Temperature Transmitter High	EDG	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IW-TE-350	IRWST Temperature Element	Accident Monitoring	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
IW-TE- 351	IRWST Temperature Element	Accident Monitoring	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ	No	I		SR	○
IW-LT-390B	IRWST LEVEL	Accident Monitoring	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
IW-LT-391A	IRWST LEVEL	Accident Monitoring	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ	No	I		SR	○
MS-PT-1013A	SG 1 Pressure Transmitter	RT/ESF/ PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1013B	SG 1 Pressure Transmitter	RT/ESF/ PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1013C	SG 1 Pressure Transmitter	RT/ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1013D	SG 1 Pressure Transmitter	RT/ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1023A	SG 2 Pressure Transmitter	RT/ESF/ PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1023B	SG 2 Pressure Transmitter	RT/ESF/ PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1023C	SG 2 Pressure Transmitter	RT/ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
MS-PT-1023D	SG 2 Pressure Transmitter	RT/ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
NR-RW-001A	ENFMS Safety Channel Detector, Channel A	RT/PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I	—	SR	
NR-RW-001B	ENFMS Safety Channel Detector, Channel B	RT/PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I	—	SR	
NR-RW-001C	ENFMS Safety Channel Detector, Channel C	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I	—	SR	
NR-RW-001D	ENFMS Safety Channel Detector, Channel D	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I	—	SR	

Table 3.11-2

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Table 3.11-3 (44 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
PA-PA03A	ESF-CCS GC Cabinet (2)	ESF	AB	157-A25C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA03B	ESF-CCS GC Cabinet (2)	ESF	AB	157-A01D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA03C	ESF-CCS GC Cabinet (2)	ESF	AB	157-A19C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA03D	ESF-CCS GC Cabinet (2)	ESF	AB	157-A19D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA04A	MTP/ITP Cabinet (2), Channel A	RT/ESF Test and Maintenance	AB	158-A01C	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA04B	MTP/ITP Cabinet (2), Channel B	RT/ESF Test and Maintenance	AB	158-A01D	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA04C	MTP/ITP Cabinet (2), Channel C	RT/ESF Test and Maintenance	AB	158-A19C	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA04D	MTP/ITP Cabinet (2), Channel D	RT/ESF Test and Maintenance	AB	158-A19D	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA06C	ESF-CCS LC Cabinet (2)	ESF	AB	157-A19C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA06D	ESF-CCS LC Cabinet (2)	ESF	AB	157-A19D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA14A	PPS Cabinet (2), Channel A	RT/ESF	AB	158-A01C	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA14B	PPS Cabinet (2), Channel B	RT/ESF	AB	158-A01D	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA14C	PPS Cabinet (2), Channel C	RT/ESF	AB	158-A19C	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA14D	PPS Cabinet (2), Channel D	RT/ESF	AB	158-A19D	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA15A	CPCS Cabinet (2), Channel A	RT	AB	158-A01C	Short-term	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA15B	CPCS Cabinet (2), Channel B	RT	AB	158-A01D	Short-term	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA15C	CPCS Cabinet (2), Channel C	RT	AB	158-A19C	Short-term	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA15D	CPCS Cabinet (2), Channel D	RT	AB	158-A19D	Short-term	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA16A	QIAS-P Cabinet (2) , Channel A	PAM	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA16B	QIAS-P Cabinet (2) , Channel B	PAM	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA18A	APC Cabinet (2), Channel A	SIGNAL SPLITTING	CR	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA18B	APC Cabinet (2), Channel B	SIGNAL SPLITTING	CR	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA18C	APC Cabinet (2), Channel C	SIGNAL SPLITTING	CR	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA18D	APC Cabinet (2), Channel D	SIGNAL SPLITTING	CR	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA29C	DRCS Remote I/O Cabinet (2)s (Associated Circuit)	Isolating non-safety I&C equipment from safety I&C equipment.	AB	157A19C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○

Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (45 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
PA-PA29D	DRCS Remote I/O Cabinet (2)s (Associated Circuit)	Isolating non-safety I&C equipment from safety I&C equipment.	AB	157A19D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA47A	BOP Radiation Monitoring Cabinet (2)	ESF, AMI	AB	157-A01D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA47B	BOP Radiation Monitoring Cabinet (2)	ESF, AMI	AB	157-A25C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PA-PA48A	ENFMS Cabinet (2), Channel A	RT/PAM	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA48B	ENFMS Cabinet (2), Channel B	RT/PAM	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA48C	ENFMS Cabinet (2), Channel C	PAM	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PA-PA48D	ENFMS Cabinet (2), Channel D	PAM	AB	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PE-LX01A	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX01B	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX01C	ESF-CCS LC Cabinet (2)	ESF	AB	078-A03C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX01D	ESF-CCS LC Cabinet (2)	ESF	AB	078-A03D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX02A	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX02B	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX02C	ESF-CCS LC Cabinet (2)	ESF	AB	078-A03C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX02D	ESF-CCS LC Cabinet (2)	ESF	AB	078-A03D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX03A	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX03B	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX03C	ESF-CCS LC Cabinet (2)	ESF	AB	078-A02C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX03D	ESF-CCS LC Cabinet (2)	ESF	AB	078-A02D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE-LX04A	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX04B	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX04C	ESF-CCS LC Cabinet (2)	ESF	AB	137-A10C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX04D	ESF-CCS LC Cabinet (2)	ESF	AB	137-A10D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX05A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (46 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
PE -LX05B	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX05C	ESF-CCS LC Cabinet (2)	ESF	AB	137-A10C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX05D	ESF-CCS LC Cabinet (2)	ESF	AB	137-A10D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX06B	ESF-CCS LC Cabinet (2)	ESF	AB	078-A25B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX07A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX07B	ESF-CCS LC Cabinet (2)	ESF	AB	120-A15B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX08A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A15A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX08B	ESF-CCS LC Cabinet (2)	ESF	AB	120-A15B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX09A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A15A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX09B	ESF-CCS LC Cabinet (2)	ESF	AB	137-A15B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX10A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX10B	ESF-CCS LC Cabinet (2)	ESF	AB	137-A15B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX11A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX11B	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX12A	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17A	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX12B	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PE -LX13B	ESF-CCS LC Cabinet (2)	ESF	AB	137-A17B	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I		SR	○
PM-PM01	MCR RO Console	Plant Status Monitoring and Control	AB	157-A12C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(7)	SR	○
PM -PM02	MCR TO/EO Console	Plant Status Monitoring and Control	AB	157-A12C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(7)	SR	○
PM -PM03	MCR SS Console	Plant Status Monitoring and Control	AB	157-A12C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(7)	SR	○
PM -PM04	MCR STA Console	Plant Status Monitoring and Control	AB	157-A12C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(7)	SR	○



Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (47 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
PM -PM05	MCR Safety Console	Plant Status Monitoring and Control	AB	157-A12C	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(7)	SR	○
PM-UC-19	PPS/CPCS/ESF-CCS Operator Module, Channel A	PPS Monitoring	AB	158-A12C	Continuous	Mild	Mild	Electrical EQ, EMC	No	I		SR	○
PM-UC-20	PPS/CPCS/ESF-CCS Operator Module, Channel B	PPS Monitoring	AB	158-A12C	Continuous	Mild	Mild	Electrical EQ, EMC	No	I		SR	○
PM-UC-21	PPS/CPCS/ESF-CCS Operator Module, Channel C	PPS Monitoring	AB	158-A12C	Continuous	Mild	Mild	Electrical EQ, EMC	No	I		SR	○
PM-UC-22	PPS/CPCS/ESF-CCS Operator Module, Channel D	PPS Monitoring	AB	158-A12C	Continuous	Mild	Mild	Electrical EQ, EMC	No	I		SR	○
PM-UC(3)9	QIAS-P Display, Channel A	PAM	CR	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
PM-UC-40	QIAS-P Display, Channel B	PAM	CR	COL(7)	Continuous	Mild	Mild	Electrical EQ/EMC	No	I		SR	○
RC-PDT-115A	SG 1 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-115B	SG 1 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-115C	SG 1 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-115D	SG 1 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-125A	SG 2 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-125B	SG 2 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-125C	SG 2 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PDT-125D	SG 2 Differential Pressure Differential Transmitter	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-102A	Pressurizer Pressure Transmitter	RT/ESF/ PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-102B	Pressurizer Pressure Transmitter	RT/ESF/ PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-102C	Pressurizer Pressure Transmitter	RT/ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-102D	Pressurizer Pressure Transmitter	RT/ESF	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-103A	Pressurizer Pressure Transmitter	SI/SCS Valve Control	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-104B	Pressurizer Pressure Transmitter	SI/SCS Valve Control	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-105C	Pressurizer Pressure Transmitter	SI/SCS Valve Control	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-106D	Pressurizer Pressure Transmitter	SI/SCS Valve Control	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-190A	RCS Pressure (Cold Leg-Pump Discharge)Transmitter	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-PT-190B	RCS Pressure (Cold Leg-Pump Discharge)Transmitter	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (48 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
RC-SE-113A	RCP 1A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-113B	RCP 1A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-113C	RCP 1A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-113D	RCP 1A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123A	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123B	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123C	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123D	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133A	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133B	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133C	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133D	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123A	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123B	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123C	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-123D	RCP 1B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133A	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133B	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133C	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-133D	RCP 2A Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-143A	RCP 2B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-143B	RCP 2B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-143C	RCP 2B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-SE-143D	RCP 2B Speed Sensor and Cable	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-113A	RCP 1A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-113B	RCP 1A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-113C	RCP 1A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-113D	RCP 1A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-123A	RCP 1B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-123B	RCP 1B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	

Table 3.11-2

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Table 3.11-3 (49 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
RC-ST-123C	RCP 1B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-123D	RCP 1B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-133A	RCP 2A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-133B	RCP 2A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-133C	RCP 2A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-133D	RCP 2A Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-143A	RCP 2B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-143B	RCP 2B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-143C	RCP 2B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-ST-143D	RCP 2B Speed Transmitter	RT	RCB	COL(7)	Short-Term	Mild	Harsh	Electrical EQ	No	I		SR	
RC-TE-112A	RCS, Hot Leg Temperature (NR) Element (5)	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-112B	RCS, Hot Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-112C	RCS, Hot Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-112D	RCS, Hot Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-113A	RCS, Hot Leg Temperature (NR) Element (5)	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-113B	RCS, Hot Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-113C	RCS, Hot Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-113D	RCS, Hot Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-122A	RCS, Cold Leg Temperature (NR) Element (5)	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-122B	RCS, Cold Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-122C	RCS, Cold Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-122D	RCS, Cold Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-123A	RCS, Cold Leg Temperature (NR) Element (5)	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-123B	RCS, Cold Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-123C	RCS, Cold Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○

Table 3.11-2

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Table 3.11-3 (50 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
RC-TE-123D	RCS, Cold Leg Temperature (NR) Element	RT	RCB	COL(7)	Short-Term	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-132A	RCS, Hot Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-132B	RCS, Hot Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-133A	RCS, Hot Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-133B	RCS, Hot Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-142A	RCS, Cold Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-142B	RCS, Cold Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-143A	RCS, Cold Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
RC-TE-143B	RCS, Cold Leg Temperature Element	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ (EMC)	No	I		SR	○
RS-RU01	Remote Shutdown Console	Plant Status Monitoring and Control	AB	137-A06D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(7)	SR	○
SI-FT-302A	SCS Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT-305B	SCS Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT-311D	SIS Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT(3)1B	SIS Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT- 321B	SIS Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT-341A	SIS Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT-390D	Hot Leg Injection Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-FT-391C	Hot Leg Injection Flow Transmitter	PAM	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-PT-311D	SI Tank Pressure Transmitter	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-PT- 321B	SI Tank Pressure Transmitter	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-PT-331C	SI Tank Pressure Transmitter	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-PT-341A	SI Tank Pressure Transmitter	PAM	RCB	COL(7)	Continuous	Harsh	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-TE-300A	SDCHX 1 Inlet and Outlet Temperature Element	SDC	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-TE-301A	SDCHX 1 Inlet and Outlet Temperature Element	SDC	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○
SI-TE-302A	SDCHX Outlet Temperature Element	SDC	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	○



Table 3.11-2      **APR1400 DCD TIER 2**

Table 3.11-3 (51 of 51)

Tag No.	Equipment Identification	Equipment Function	Building	Room No.	Required Operational Time	Environmental Condition(1)	Radiation Condition (4),(6)	Designation	Influence of Immersion	Seismic Cat.	Remarks	Classification	HF Sensitive
SI-TE-303B	SDCHX 2 Inlet and Outlet Temperature Element	SDC	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	O
SI-TE-304B	SDCHX 2 Inlet and Outlet Temperature Element	SDC	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	O
SI-TE-305B	SDCHX Outlet Temperature Element	SDC	AB	COL(7)	Continuous	Mild	Harsh	Electrical EQ/EMC	No	I		SR	O
QN-PA17N	QIAS-N Cabinet (2)	Plant Status Monitoring	AB	137-A10D	Continuous	Mild	Mild	Electrical EQ (EMC)	No	I	(8)	NSR	O

- (1) See EQP Table 3 for definition of environmental categories.
- (2) Equipment located within a cabinet (2) is qualified allowing for temperature increase inside cabinet (2).
- (3) Non-metallic consumable parts (as O-Ring, Packing and Gasket) are contained.
- (4) Radiation environmental qualification requirements for individual components are developed as discussed in Subsection 3.11.5.
- (5) Only Channels A and B are qualified for accident environment.
- (6) EQP Table 3 provides the worst case upper bound radiation environment in the region where the component is located.
- (7) RO, and TO/EO consoles include ESF-CCS soft control modules (ESCMs) which are Class 1E devices. SS and STA consoles include ESCMs which are Class 1E devices and QIAS-N FPDs which are Non-Class 1E devices. Safety Console includes Class 1E and Non-Class 1E devices. Class 1E devices are QIAS-P FPD, operator modules, Class 1E switches, ESCM. Non-Class 1E devices are QIAS-N FPDs. Remote shutdown console includes ESCMs which are Class 1E devices and QIAS-N FPDs which are Non-Class 1E devices.
- (8) QIAS-N Cabinet (2) is designed by the associated circuit in accordance with the IEEE Std.384, since it performs a non-safety function, but the hardware is qualified.
- (9) Piping design determines room number that valves or other equipment will be installed in and is applied to graded approach.  
Therefore, room number specified in the "E" column will be defined after piping design is completed. COL applicant will provide information on the room numbers.
- (10) For cables or cable assemblies which do not have tag number due to being supplied as bulk, “N/A” will be specified in the Column labeled “Tag No”