

3.2 Classification of Structures, Components, and Systems

The information in this section of the reference ABWR DCD, including all subsections, tables and figures, is incorporated by reference with the following departures and supplement (Hot Machine Shop). Note that the departures used for Table 3.2-1 are numbered with {} brackets.

STD DEP T1 2.4-3 Reactor Core Isolation Cooling System

STD DEP T1 2.14-1 Hydrogen Recombiner Requirements Elimination

{1} STD DEP T1 3.4-1 Safety Related I&C Architecture, and Mux

{2} STD DEP 8.3-1 Dual Voltage Electrical System

{3} STD DEP 9.1-1 Fuel Storage and Handling

{4} STD DEP 9.3-2 Breathing Air System

STD DEP T1 2.14-1 in Table 3.2-1- Flammability Control System

The Hydrogen Recombiner Requirements Elimination description was provided in ABWR Licensing Topical Report NEDO-33330, "Advanced Boiling Water Reactor (ABWR) Hydrogen Recombiner Requirements Elimination," Revision 1, dated September, 2007. The markup information on page C-15, C-16 and C-174 of the Licensing Topical Report is incorporated by reference.

STD DEP T1 2.4-3 in Table 3.2-1-RCIC System

The Reactor Core Isolation Cooling System (RCIC) alternate design description was provided in ABWR Licensing Topical Report NEDE-33299P, "Advanced Boiling Water Reactor (ABWR) with Alternate RCIC Turbine-Pump," dated December, 2006. The markup information on pages C-7, C-8, C-9, and C-10 of the Licensing Topical Report is incorporated by reference.

Table 3.2-1 Classification Summary

The classification information is presented by System* in the following order:		
Item No.	MPL Number [†]	Title
C Control and Instrument Systems		
C7	C71	Reactor Protection System Trip and Isolation Functions [‡] {1}
C14	C94	Process Computer (Includes PMCS and PGCS) {1}
H Control Panels		
H6	H23	Multiplexing System {1}
U Structures and Servicing Systems		
U15	U95	Hot Machine Shop

Table 3.2-1 Classification Summary (Continued)

Principal Component ^a	Safety Class ^b	Location ^c	Quality Group Classification ^d	Quality Assurance Requirement ^e	Seismic Category ^f	Notes
C7 Reactor Protection System Trip and Isolation Function {1}						
C11 Process Computer (includes PMCS & PGCS) {1}	N	X	—	E	—	
H6 Multiplexing System {1}						
1. Electrical module with safety-related functions (Essential)	3	RZ,X	—	B	I	
2. Cable with safety-related functions (Essential)	3	RZ,X	—	B	I	
3. Other electrical modules and cables (Non-essential)	N	SC,RZ,X,W	—	E	—	
F1 Fuel Servicing Equipment {3}	N/2	SC	—/B	E/B	—	(x)
P19 Breathing Air System {4}	N	C,SC,T	—	E	—	
1. Containment Isolation including supports, valves and piping	2	C,SC	B	B	I	
2. Other non-safety related mechanical and electrical components	N	C,SC,RT, MCH	—	E	—	
R5 Metal clad Switchgear {2}						
1. Safety-related 6900 4160 Volt switchgear	3	RZ	—	B	I	
U15 Hot Machine Shop	N	MCH	—	E	—	

Table 3.2-1 Notes and Footnotes

c. **MCH = Hot Machine Shop**x. The cranes and ~~Safety Class 2~~ {3} fuel servicing equipment are designed to hold up their loads and to maintain their positions over the units under conditions of SSE.