

LEGEND FOR TABLE A-1

The information presented in each column of Table A-1 is explained as follows:

Area-Zone:	Identification code for fire areas and fire zones. Fire zones with identification codes beginning with the same number are located in the same fire area.
Structure:	Location of the fire area-zone, by structure.
Elevation:	Elevation of the fire area-zone.
Room No.:	The room number as indicated on the Architectural drawings.
Area-Zone Description:	Description of compartments included within the fire area or fire zone.
SR (Safety-Related):	Indicates whether or not the fire area or zone contains safety-related equipment or electrical cabling.
Floor Area (sq ft):	Floor area in square feet of the fire area-zone.
Combustible Loading:	Designator of "Low" ($\leq 60,000$ Btu/ft ²), "Moderate" ($> 60,000$ Btu/ft ² to $\leq 140,000$ Btu/ft ²), or "High" ($> 140,000$ Btu/ft ²).
Structural Fire Resistance Rating:	Rating in hours based on the type of construction of each wall, floor, and ceiling that forms part of the boundary of a fire area or fire zone. (The ratings listed in this table apply to the major portion of the boundary on each side of a fire area or fire zone. In those cases where the boundary on one side of a fire area consists of segments with different types of construction, small areas with lower fire ratings or zero fire ratings may exist. For a more detailed description of the ratings or the boundaries of the various fire areas, refer to the fire area discussions contained in Section 5.3.

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Detection Type/No.:	Type of fire detectors and number detectors provided in the fire area or zone. Unless indicated otherwise, all smoke detectors are of the ionization type.
Suppression Type/Actuation:	Type of fire suppression system and method of actuation in the fire area.

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)							Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation	
1 - 1	RB-2	91'-6" 116'-0"	2 101	A/C RHR Heat Exchanger & Pump Room A/C RHR Heat Exchanger & Pump Room	Y	666 666 1332	Cable Insulation Lube Oil	Low	0 3	0	0	0	0	0	0	S	3	N	
1 - 2	RB-2	91'-6" 116'-0"	3 102	A/C RHR Heat Exchanger & Pump Room A/C RHR Heat Exchanger & Pump Room	Y	492 492 984	Cable Insulation Lube Oil	Low	3	0	3	0	0 3	0	S	3	PE	M	
1 - 26	RB-2	135'-0" to 234'-0"	St 26	Stairtower No. 26	N	126	None	Low	2	3	2	2	0	0	N		N		
2 - 3	RB-2	91'-6" 116'-0"	4 103	B/D RHR Heat Exchanger & Pump Room B/D RHR Heat Exchanger & Pump Room	Y	492 492 984	Cable Insulation Lube Oil	Low	0	3	3	0	0 3	0	S	3	PE	M	
2 - 4A	RB-2	91'-6" 116'-0"	5 104	B/D RHR Heat Exchanger & Pump Room B/D RHR Heat Exchanger & Pump Room	Y	684 684 1368	Cable Insulation Lube Oil Rubber (Silicone)	Low	0	3	2	0	0 3	0	S	2	PE	M	
2 - 4B	RB-2	116'-0"	105	RBCCW Room	Y	3475	Cable Insulation	Low	0	0 3 2	3	0 2	3	0	S	5	PR HS PE	A M M	
2 - 11	RB-3	91'-6" 116'-0"	39 157	A/C RHR Heat Exchanger & Pump Room A/C RHR Heat Exchanger & Pump Room	Y	492 492 984	Cable Insulation Lube Oil	Low	3	0	3	0	0 3	0	S	3	PE	M	
2 - 12A	RB-3	91'-6" 116'-0"	38 156	A/C RHR Heat Exchanger & Pump Room A/C RHR Heat Exchanger & Pump Room	Y	684 684 1368	Cable Insulation Lube Oil	Low	0 3	0	0	0	0	0	S	2	PE	M	
2 - 12B	RB-3	116'-0"	162	RBCCW Room	Y	3475	Cable Insulation Plastic	Low	0 3	0	3	0	0	0	S	5	HS PE PR	M M A	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
2 - 14	RB-3	91'-6" to 135'-0"	St 25	Stairway No. 25	Y	680	None	Low	3	0	0	0	0	0	S	1	N	
2 - 59	RB-2	88'-0"	6	HPCI Pump Room	Y	1938	Cable Insulation Lube Oil	Low	0	0 2 3	0	0 2	0	0	S	3	HS CO2 PE	M M M
2 - 60	RB-2	91'-6"	7	RCIC Pump Room	Y	960	Cable Insulation	Low	0	3	0	0	0	0	S	2	PE	M
2 - 61	RB-2	91'-6"	8	Reactor Sump Pump Room	Y	510	Cable Insulation	Low	0	3	3	0	0	0	S	1	HS PE	M M
2 - 62	RB-3	88'-0"	48	HPCI Pump Room	Y	1938	Cable Insulation Lube Oil	Low	0 3	0	0	0	0	0	S	4	HS CO2 PE	M M M
2 - 63	RB-3	91'-6"	47	RCIC Pump Room	Y	960	Cable Insulation	Low	3	0	0	0	0	0	S	2	PE	M
2 - 64	RB-3	91'-6"	46	Reactor Sump Pump Room	Y	510	Cable Insulation	Low	3	0	3	0	0	0	S	1	HS PE	M M
2 - 65A	RW	91'-6"	31	Tank & Pump Room	Y	2945	Cable Insulation	Low	0	0	3	0	0	0	S	3	PE	M
2 - 65B	RW	91'-6"	32	Chemical Waste Tank Room	Y	222	Cable Insulation	Low	0	0	0	0	0	0	N		N	
2 - 65C	RW	91'-6"	24	Floor Drain Demineralizer Tank Room	Y	816	Cable Insulation	Low	0	0	3	0	0	0	S	1	HS	M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
2 - 66A	RW	91'-6"	26	Waste Sludge Pump Room	N	173	Cable Insulation	Low	0	0	0	0	0	0	N		N	
2 - 66B	RW	91'-6"	25	Waste Sludge Tank Room	N	680	Cable Insulation	Low	0	0	0	0	0	0	N		N	
2 - 67	RW	91'-6"	27	Spent Resin Pump Room	N	200	None	Low	0	0	0	0	0	0	N		N	
2 - 68	RW	91'-6"	28	Spent Resin Tank Room	N	95	None	Low	0	0	0	0	0	0	N		N	
2 - 69A	RW	91'-6"	30	Collector Pump Room	N	270	Cable Insulation	Low	0	0	0	0	0	0	N		N	
2 - 69B	RW	91'-6"	29	Floor Drain Waste Collection Tank Room	N	946	None	Low	0	0	0	0	0	0	N		N	
2 - 70	RW	91'-6"	33	Standby Gas Treatment Room	Y	2470	Cable Insulation Plastic	Low	0	0	0	0	0	0	S H	4 12	HS PE WS	M M M
2 - 71	RW	91'-6" to 165'-0"	St 34	Stairtower No. 34	N	190	None	Low	0	0	0	0	0	0	N		N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
2 - 72A	RW	116'-0"	142	Chemical Addition Funnel & Storage	Y	195	Cable Insulation	Low	0	0	0	0	0	0	S	10	HS WP PE	M A M
			143	Laundry Room		228	Lube Oil		3	3	3							
			154	Corridor		995	Thermo-Lag 330-1											
			234	Drummed Waste, Bailer, & Storage Bin Areas		195	Plastic											
		135'-0"	235	Empty Drum Storage Room		420	Rubber											
			238	Filter Room		980	Cotton Cloth											
			241	Storage Conveyer Area		740	Polycarbonate											
			242	Laydown Area		2250	Thermo-Lag 770-1											
		150'-0"	290	Sample Tank & Pump Room		3515	Pipe Insulation											
			292	RW HVAC Equip Room		2479												
			376	RW Exhaust Fan Room		966												
			377	Absorbant Feeder Room		360												
		165'-0"	380	Absorbant Feeder Room		360												
						13683												
2 - 72B	RW	116'-0"	148	Clean Up Phase Tank & Pump Room	N	224	Cable Insulation	Low	0	0	3	0	0	0	N		N	
			150	Demineralizer Room		90												
			151	Filter Holding Pump Room		726												
			152	Filter Room		450												
			153	Corridor		265												
						1755												
2 - 72C	RW	116'-0"	147	Condensate Phase Separator Pump Room	Y	418	Cable Insulation	Low	0	0	3	0	0	0	S	1	N	
2 - 72D	RW	116'-0"	145	Condensate Phase Separator Tank Room	Y	684	Cable Insulation	Low	0	0	3	0	0	0	S	1	N	
2 - 72E	RW	116'-0"	144	Condensate Phase Separator Tank Room	Y	684	Cable Insulation	Low	0	0	0	0	0	0	S	2	N	
2 - 72F	RW	116'-0"	146	Condensate Phase Separator Pump Room	Y	418	Cable Insulation	Low	0	0	0	0	0	0	S	1	N	
2 - 72G	RW	150'-0"	291	Hopper Compartments	N	416	None	Low	0	0	0	0	0	0	N		N	

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									N	S	E	W	U	D	Type	No.	Type	Actuation
2 - 72H	RW	165'-0"	378	Centrifuges	N	192	None	Low	0	0	3	0	0	0	N		N	
2 - 72J	RW	165'-0"	379	Centrifuges	N	192	None	Low	0	0	3	0	0	0	N		N	
2 - 73	RW	116'-0"	149	Clean Up Phase Separator Room	N	224	None	Low	0	0	0	0	0	0	N		N	
2 - 74	RW	116'-0"	141	Waste Surge Tank Room	Y	2442	Cable Insulation	Low	0	0	0	0	0	0	S	3	HS	M
2 - 75	RW	135'-0"	236 237 239 240 243	Radwaste Control Room Medical Station Personnel Decontamination Station Corridor Radwaste Control Room Office	Y	634 165 450 60 66 1375	Cable Insulation Thermo-Lag 330-1 Paper Thermo-Lag 770-1 Pipe Insulation Nylon	Low	0	3	3	0	3	0	S	3	PE	M
4 - 4C	RB-2	135'-0"	206	Recirculating Pump MG Set Room	Y	3525	Cable Insulation Thermo-Lag 330-1	Low	3	3	3	0	3	3	S	10	PR HS PE	A M M
4 - 6	RB-2	88'-0" to 135'-0"	St 24	Stairtower No. 24	Y	133	None	Low	2	3	2	2	3	0	S	1	N	
5 - 5A	RB-2	91'-6"	11	Core Spray Pump Room	Y	288	Cable Insulation Lube Oil	Low	0	0	0 3	0	0	0	S	1	PE	M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
5 - 5B	RB-2	91'-6"	12	Core Spray Pump Room	Y	308	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	S	1	N	
5 - 5C	RB-2	92'-6" to 116'-0"	1	Torus Area	Y	16882	Cable Insulation PVC/Nylon Laminate Rubber (Silicone)	Low	0 3	0 3	0 3	0 3	0	0	S	8	N	
5 - 5D	RB-2	91'-6"	9	Core Spray Pump Room	Y	241	Cable Insulation Lube Oil	Low	0 2	0	0 3	0	0	0	S	1	N	
5 - 5E	RB-2	91'-6"	10	Core Spray Pump Room	Y	352	Cable Insulation Lube Oil	Low	3	0	2	0	0	0	S	1	PE	M
5 - 5F	RB-2	116'-0"	108	Vacuum Breaker Area	Y	672	Cable Insulation	Low	0	0	0 3	0	3	0	S	1	PE	M
5 - 5G	RB-2	116'-0"	107	Vacuum Breaker Area	Y	511	Cable Insulation	Low	0 2 3	0	2 3	0	3	0	S	2	N	
5 - 7	RB-2	91'-6" to 116'-0"	St 18	Stairtower No. 18	N	133	None	Low	0	0	0 3	0	3 3	0	N		N	
6N - 5H	RB-2	135'-0"	205 209	Control Rod Drive Equipment Area Corridor	Y	5002 396 5398	Cable Insulation Thermo-Lag 330-1 Wood Thermo-Lag 770-1	Low	2 3	0 3	2 3	0 3	3	3	S H	8 2	HS PE WC	M M A
6N - 22	RB-2	135'-0"	207	Drywell Access	N	350	None	Low	0	3	3	0	3	3	S	1	N	
6N - 23	RB-2	135'-0"	204	Isolation Valve Compartment	Y	450	Cable Insulation	Low	0	0	0	0	3	3	S	1	N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
6S - 5J	RB-2	165'-0"	400 403	Isolation Valve Compartment Operating Area	Y	375 6848 7223	Cable Insulation Plastic Rubber (Silicone) PVC/Nylon Laminate	Low	2 3	0	2 3	0 2	0	0 3	S	13	PE HS HC	M M M
6S - 5K	RB-2	195'-0"	500 501 505 508 509	Holding Pump Compartments Laydown Areas Holding Pump Compartments Laydown Areas Filter Demin Compartments	Y	110 3355 110 4590 112 8277	Cable Insulation Plastic	Low	0	0 2	0 2	0 2	0	0	S	8	HS PE	M M
6S - 5L	RB-2	196'-0"	504	Source Storage & Calibration	N	400	None	Low	0	0	0	0	0	0	N		N	
6S - 5M	RB-2	165'-0"	410 430	Transfer Pump Room Backwash Receiving Tank Room	N	135 645 780	Cable Insulation	Low	0	0	0	0	0	0 3	N		N	
6S - 5P	RB-2	135'-0"	212	Control Rod Drive Equipment Area	Y	4033	Cable Insulation Wood	Low	0 3	0 2 3	3	0 2	0	3	S H	7 2	HS PE WC	M M A
6S - 19	RB-2	135'-0"	203	Isolation Valve Compartment	Y	448	Cable Insulation Rubber	Low	0	0	0	0	0	3	S	1	N	
6S - 20	RB-2	135'-0"	210	Neutron Monitoring Room	Y	320	Cable Insulation	Low	0	0	0	0	0	3	S	1	N	
6S - 41	RB-2	165'-0"	409	Non-Regenerative Heat Exchanger Room	N	312	Cable Insulation	Low	0	0	0	0	0	0	N		N	
6S - 42	RB-2	165'-0"	408	Non-Regenerative Heat Exchanger Room	N	392	Cable Insulation	Low	0	0	0	0	0	0	N		N	
6S - 43	RB-2	165'-0"	407	Regenerative Heat Exchanger Room	N	480	Cable Insulation	Low	0	0	0	0	0	0	N		N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
6S - 44	RB-2	165'-0"	498	Reactor Water Clean Up Pump Room	N	144	Cable insulation	Low	0	0	0	0	0	0	N		N	
6S - 45	RB-2	165'-0"	405	Reactor Water Clean Up Pump Room	N	144	Cable Insulation	Low	0	0	0	0	0	0	N		N	
6S - 46	RB-2	165'-0"	404	Reactor Water Clean Up Pump Room	N	112	Cable Insulation	Low	0	0	0	0	0	0	N		N	
6S - 47A	RB-2	180'-0"	473	Valve Compartment	N	240	Cable Insulation	Low	0	0	0	0	0	0	N		N	
6S - 47B	RB-2	180'-0"	472	Valve Compartment	N	180	Cable Insulation	Low	0	0	0	0	0	0	N		N	
6S - 51	RB-2	195'-0" 214'-0"	506 510 511 529	Ventilation Equipment Area Prefilter & HEPA Filter Compartments Prefilter & HEPA Filter Compartments Reactor Building Fan Room	Y	3033 234 216 3875 7358	Cable Insulation	Low	0 2	0	3	0	0	0	S	4	PE	M
6S - 52	RB-2	195'-0"	535	Corridor	N	152	None	Low	0	0	0	0	0	0	N		N	
6S - 57	RB-2	234'-0"	502 503 507 601 603 604	New Fuel Storage Spent Fuel Pool Steam Separator & Dryer Storage Pit Laydown Area Laydown Area Washdown Area	Y	192 1400 1145 7693 11048 748 22226	Plastic Polycarbonate Cable Insulation Rubber (Silicone)	Low	0 2	0 2	0 2	0 2	0	0	N		PE HS	M M
6S - 58	RB-2	234'-0"	605	Radiation Protection Control Point	N	360	Cable Insulation Paper	Low	0	0	2	0	0	0	N		PE	M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	
9 - 8	RB-2	91'-6" to 251'-8"	St 19	Stairtower No. 19	N	224	None	Low	0 2 3	2 2 3	0 2 3	0 2 3	3 2 3	0	N		PE	M
9 - 18	RB-2	91'-6" to 251'-9"	606	Elevator Machine Room & Elevator Shaft	N	380	None	Low	2 3	0 2	0 2 3	0 2 3	0 2 3	0 3	N		N	
10 - 9	RB-3	91'-6" to 116'-0"	41 159	RHR Heat Exchanger & Pump Room RHR Heat Exchanger & Pump Room	Y	666 666 1332	Cable Insulation Lube Oil Rubber (Silicone)	Low	0	0 3	0	0	0 0	0	S	3	N	
10 - 10	RB-3	91'-6" to 116'-0"	40 158	RHR Heat Exchanger & Pump Room RHR Heat Exchanger & Pump Room	Y	492 492 984	Cable Insulation Lube Oil Rubber (Silicone)	Low	0	3	3	0	0 3	0	S	3	PE	M
10 - 34	RB-3	135'-0" to 234'-0"	St 27	Stairtower No. 27	N	126	None	Low	2	2	2	2	0	0	N		N	
12 - 13A	RB-3	91'-6"	43	Core Spray Pump Room	Y	288	Cable Insulation Lube Oil	Low	0	0	0 3	0	0	0	S	1	N	
12 - 13B	RB-3	91'-6"	42	Core Spray Pump Room	Y	308	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	S	1	PE	M
12 - 13C	RB-3	92'-6" & 116'-0"	37	Torus Area	Y	16882	Cable Insulation	Low	0 3	0 3	0 3	0 3	0	0	S	8	N	
12 - 13D	RB-3	91'-6"	44	Core Spray Pump Room	Y	241	Cable Insulation Lube Oil	Low	0	0 2	0 3	0	0	0	S	1	N	
12 - 13E	RB-3	91'-6"	45	Core Spray Pump Room	Y	352	Cable Insulation Lube Oil	Low	0	3	2	0	0	0	S	1	PE	M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
12 - 13F	RB-3	116'-0"	160	Vacuum Breaker Area	Y	672	Cable Insulation	Low	0	0	0 3	0	3	0	S	1	PE	M
12 - 13G	RB-3	116'-0"	161	Vacuum Breaker Area	Y	511	Cable Insulation	Low	0	2 3	2 3	0	3	0	S	2	N	
12 - 15	RB-3	91'-6" to 116'-0"	St 23	Stairtower No. 23	N	133	None	Low	0	0	0 3	0	3	0	N		N	
13N - 13H	RB-3	135'-0"	250	Control Rod Drive Equipment Area	Y	4033	Cable Insulation	Low	0 2	0 3	3	0 2	0	3	S H	7 2	PE HS WC	M M A
13N - 13J	RB-3	165'-0"	444 447	Operating Area Isolation Valve Compartment	Y	6848 375 7223	Cable Insulation Silicone Rubber Rubber (Silicone)	Low	0 2	2 3	2 3	0 2	0	0 3	S	13	HS HC PE	M M M
13N - 13K	RB-3	195'-0"	514 515 516 517 523	Holding Pump Compartment Holding Pump Compartment Filter Demineralizer Compartments Laydown Area Laydown Area	Y	110 110 112 3355 4590 8277	Cable Insulation Polycarbonate Plastic	Low	0 2	0	0 2	0 2	0	0	S	9	HS HC PE	M M M
13N - 13L	RB-3	195'-0"	522	Source Storage & Calibration Room	N	400	None	Low	0	0	0	0	0	0	N		N	
13N - 13M	RB-3	165'-0"	452 453	Transfer Pump Room Backwash Receiving Tank Room	N	135 645 780	Cable Insulation	Low	0	0	0	0	0	3	N		N	
13N - 27	RB-3	135'-0"	249	Isolation Valve Compartment	Y	450	None	Low	0	0	0	0	0	3	S	1	N	
13N - 28	RB-3	135'-0"	253	Drywell Access	N	252	None	Low	0	3	3	0	0	3	S	1	N	

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									N	S	E	W	U	D	Type	No.	Type	Actuation
13N - 35	RB-3	165'-0"	450	Non-Regenerative Heat Exchanger Room	N	312	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 36	RB-3	165'-0"	449	Non-Regenerative Heat Exchanger Room	N	392	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 37	RB-3	165'-0"	448	Regenerative Heat Exchanger Room	N	480	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 38	RB-3	165'-0"	499	Reactor Water Clean Up Pump Room	N	144	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 39	RB-3	165'-0"	446	Reactor Water Clean Up Pump Room	N	144	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 40	RB-3	165'-0"	445	Reactor Water Clean Up Pump Room	N	112	Cable Insulation PVC/Nylon Laminate	Low	0	0	0	0	0	0	N		N	
13N - 48A	RB-3	180'-0"	477	Valve Compartment	N	180	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 48B	RB-3	180'-0"	476	Valve Compartment	N	240	Cable Insulation	Low	0	0	0	0	0	0	N		N	
13N - 49	RB-3	195'-0" 214'-0"	520 525 526 530	Reactor Building Ventilation Equip Area Prefilter & HEPA Filter Compartments Prefilter & HEPA Filter Compartments Reactor Building Fan Room	Y	3033 234 216 3875 7358	Cable Insulation	Low	0	0 2	3	0	0	0	S	4	PE	M
13N - 50	RB-3	195'-0"	536	Airlock	Y	152	None	Low	0	0	0	0	0	0	N		PE	M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
13N - 55	RB-3	234'-0"	518 519 521 611 613 614	New Fuel Storage Steam Separator & Dryer Storage Pit Spent Fuel Pool Laydown Area Laydown Area Washdown Area	Y	192 1145 1400 7693 11048 748 22226	Cable Insulation Plastic Polycarbonate Rubber (Silicone)	Low	0 2	0 2	0 2	0 2	0 0	0 0	N		HS PE	M M
13N - 56	RB-3	234'-0"	612	Radiation Protection Control Point	N	136	Cable Insulation Paper	Low	0	0	2	0	0	0	N		PE	M
13S - 13P	RB-3	135'-0"	252 257	Corridor Control Rod Drive Equipment Area	Y	315 3906 4221	Cable Insulation Thermo-Lag 330-1	Low	0 3	2 3	3	0 3	0 3	3	S H	8 2	PE HS WC	M M A
13S - 30	RB-3	135'-0"	255	Neutron Monitoring Room	Y	396	Cable Insulation	Low	3	0	0	0	3	3	S	1	N	
13S - 31	RB-3	135'-0"	248	Isolation Valve Compartment	Y	450	None	Low	0	0	0	0	3	3	S	1	N	
16 - 16	RB-3	91'-6" to 251'-8"	St 22	Stairtower No. 22	N	224	None	Low	2	0 2 3	0 2 3	0 2 2	0 3	0	N		PE	M
16 - 17	RB-3	91'-6" to 251'-8"	616	Elevator Machine Room & Elevator Shaft	N	380	None	Low	0 2	2 3	0 2 3	0 2 2	0 3 3	N		PE	M	
17 - 21	RB-2	135'-0"	208	Main Steam Isolation Valve Room	Y	660	Cable Insulation	Low	3	3	3	0	3	3	N		N	
18 - 24	RB-2	116'-0" to 165'-0"	202 402	Drywell Drywell	Y	2714 3550 6264	Cable Insulation Rubber	Low	0	0	0	0	0	0	S	2	N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
19-25	RB-2	116'-0" & 135'-0"	201	Control Rod Drive Area	Y	616	None	Low	0	0	0	0	0	0	S	1	N	
20-29	RB-3	135'-0"	254	Main Steam Isolation Valve Room	Y	660	Cable Insulation	Low	3	3	3	0	3	3	N		N	
21-32	RB-3	116'-0" to 165'-0"	247 443	Drywell Areas Drywell Areas	N	2866 3550 6416	Cable Insulation Lube Oil Rubber	Low	0	0	0	0	0	0	S	2	N	
22-33	RB-3	116'-0" & 135'-0"	246	Control Rod Drive Area	N	452	None	Low	0	0	0	0	0	0	S	1	N	
25-78H	CS	150'-0"	302	Cable Spreading Room & Auxiliary Room	Y	7328	Cable Insulation Thermo-Lag 330-1 Thermo-Lag 770-1 Polycarbonate	Moderate	3	3	3	3	0	3	S	25	CO2 PE	M M
25-108	CS	165'-0"	422 423 424 425 426 427 428	Auxiliary Office Toilet Lunch Room Shift Manager's Room Control Room Shift Supervisor's Office North Office	Y	128 56 240 294 5210 200 647 6775	Cable Insulation Paper Carpet Cotton Cloth Wood Plastic	Low	3	3	3	3	0 3	0	S L	12	PE	M
25-108A	RW	165'-0"	381	Fan Room	Y	6078	Cable Insulation Thermo-Lag 330-1	Low	3	3	3	3	0	3	S L	24	HS PE PR	M M A
25-129	CS	150'-0"	301	Computer Room	Y	782	Cable Insulation	Moderate	2	2	2	2	0	3	S	2	PE CO2	M M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
26 - 76	RB-3	165'-0"	382	MG Set Ventilation Supply Fan Room	Y	2100	Cable Insulation	Low	3	3	3	0	0	3	S	2	N	
27 - 77	RB-2	165'-0"	375	MG Set Ventilation Supply Fan Room	Y	2100	Cable Insulation	Low	3	3	3	0	0	3	S	2	N	
30 - 117	CS	135'-0"	268	Battery Room Note (1)	Y	525	Battery Cases Thermo-Lag 330-1	Low	3	2	3	2	3	3	S	3	N	
31 - 118	CS	135'-0"	266	Battery Room Note (1)	Y	504	Battery Cases Thermo-Lag 330-1	Low	3	2	2	2	3	3	S	6	PR	A
32 - 119	CS	135'-0"	261	Emergency Switchgear Room	Y	504	Cable Insulation Thermo-Lag 330-1	Low	2	2	2	2	3	3	S	8	PE PR	M A
33 - 120	CS	135'-0"	267	Emergency Switchgear Room	Y	525	Cable Insulation Thermo-Lag 330-1	Low	2	2	3	2	3	3	S	4	PE PR	M A
34 - 121	CS	135'-0"	265	Emergency Switchgear Room	Y	525	Cable Insulation Thermo-Lag 330-1	Low	2	2	2	2	3	3	S	6	PE PR	M A
35 - 122	CS	135'-0"	263	Emergency Switchgear Room	Y	525	Cable Insulation Thermo-Lag 330-1	Low	2	2	3	2	3	3	S	3	PE PR	M A
36 - 123	CS	135'-0"	226	Emergency Switchgear Room	Y	525	Cable Insulation Thermo-Lag 330-1	Low	2	2	2	2	3	3	S	6	PE PR	M A
37 - 124	CS	135'-0"	231	Emergency Switchgear Room	Y	525	Cable Insulation Thermo-Lag 330-1	Low	2	2	3	2	3	3	S	3	PE PR	M A
38 - 125	CS	135'-0"	217	Emergency Switchgear Room	Y	504	Cable Insulation Thermo-Lag 330-1	Low	2	2	2	2	3	3	S	8	PE PR	M A
39 - 126	CS	135'-0"	227	Emergency Switchgear Room	Y	525	Cable Insulation Thermo-Lag 330-1	Low	2	2	3	2	3	3	S	4	PE PR	M A

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
40 - 127	CS	135'-0"	225	Battery Room Note (1)	Y	600	Battery Cases Thermo-Lag 330-1	Low	2	3	3	2	3	3	S	4	PR	A
41 - 128	CS	135'-0"	218	Battery Room Note (1)	Y	400	Battery Cases Thermo-Lag 330-1	Low	2	3	2	2	3	3	S	6	PR	A
43 - 132	DG	127'-0"	814 819 823	E4 Diesel Generator Vent Rm Bay D Diesel Generator Room Day Tank Room	Y	465 1444 56 1965	Fuel Oil Lube Oil	Low	0	3	0	0	0	0	H	9	PE CO2	M M
44 - 133	DG	127'-0"	813 818 822	E3 Diesel Generator Vent Rm Bay C Diesel Generator Room Day Tank Room	Y	511 1444 56 2011	Fuel Oil Lube Oil	Low	3	3	0	0	0	0	H	9	PE CO2	M M
45 - 134	DG	127'-0"	812 817 821	E2 Diesel Generator Vent Rm Bay B Diesel Generator Room Day Tank Room	Y	511 1444 56 2011	Fuel Oil Lube Oil	Low	3	3	0	0	0	0	H	9	PE CO2	M M
46 - 135	DG	127'-0"	811 816 820	E1 Diesel Generator Vent Rm Bay A Diesel Generator Room Day Tank Room	Y	511 1444 56 2011	Fuel Oil Lube Oil	Low	3	3	0	0	0	0	H	9	PE CO2	M M
47 - 143	CWPS	112'-0"	803	High Pressure Service Water & Emergency Service Water Room	Y	1050	Lube Oil	Low	3	0	0	3	0	0	S H	1 1	HS PE	M M
48 - 144	CWPS	112'-0"	801	High Pressure Service Water & Emergency Service Water Room	Y	865	Lube Oil Thermo-Lag 330-1	Low	0	2 3	0 2	3	0	0	S H	1 1	PE	M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 78A	TB-2 & 3	91'-6"	16	Condensate Demineralizer Pipe Tunnels	Y	6140	Cable Insulation	Low	0	0	0	0	0	0	S	65	HS PE WP	M M A
			53	Condensate Demineralizer Pipe Tunnels		6140	Lube Oil		3	3		3						
			17	Condensate Backwash Pump Room		494	Thermo-Lag 330-1											
			124	Valve Operating Areas		8285	Cotton Cloth											
			170	Valve Operating Areas		7742	Rubber											
			187	Condensate Demineralizer Filter 3MF017		212												
			188	Condensate Demineralizer Filter 3MF017		235												
				Laydown Area														
			189	Condensate Demineralizer Filter 3LF017		202												
			190	Condensate Demineralizer Filter 3LF017														
				Laydown Area														
			125	Personnel Access Locks		24	Wood											
			169	Personnel Access Locks		24	Polycarbonate											
			123	Demineralizer Filter Compartments		920	Thermo-Lag 770-1											
			171	Demineralizer Filter Compartments		920												
		135'-0"	219	Corridors		2529												
			264	Corridors		2529												
			414	Corridors		8155												
			416	Reactor Feed Pump Rooms		420												
		165'-0"	418	Reactor Feed Pump Rooms		420												
			457	Corridor		8155												
			420	Reactor Feed Pump Rooms		420												
			458	Reactor Feed Pump Rooms		420												
			460	Reactor Feed Pump Rooms		420												
			462	Reactor Feed Pump Rooms		420												
						55147												
50 - 78B	TB-2 & 3	116'-0"	126	Switchgear Areas	Y	2540	Cable Insulation	Low	0	0	0	0	0	0	S H	48 2	WP HS CH PE WC PR	A M M M A A A
			186	Switchgear Areas		2540	Lube Oil					3	3					
			135	General Storage & H2 Seal Equip Areas		2040	Thermo-Lag 330-1											
			184	General Storage & H2 Seal Equip Areas		2040	Cotton Cloth											
			185	Laydown Areas		8742	Thermo-Lag 770-1											
		135'-0"	228	Laydown Areas		11350	Plastic											
			229	Generator Equipment Areas		1968	Rubber											
			274	Generator Equipment Areas		1968	Battery Cases											
			429	Laydown Areas		17860	Cotton											
		165'-0"	439	Lunch Room		240												
			440	Instrument Laboratory		112												
			441	Storage Room		45												
						51445												

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 78C	TB-2	116'-0"	127	Radiological Chemistry Lab	Y	540	None	Low	0	0	0	0	0	0	H	1	PE	M
50 - 78D	TB-2	116'-0"	128	Conventional Chemistry Lab	Y	450	Cable Insulation Plastic	Low	0	0	0	0	0	0	H	1	PE	M
50 - 78E	TB-2	116'-0"	134	Room 134	N	198	Paper Cable Insulation Plastic	Low	0	0	0	0	0	0	H	1	N	
50 - 78F	TB-3	135'-0"	275	Reactor Feed Pump Turbine Lube Oil Room	N	480	Cable Insulation Lube Oil	High	0	0	0	0	0	0	N		WP	A
50 - 78G	TB-2	135'-0"	232	Reactor Feed Pump Turbine Lube Oil Room	N	480	Cable Insulation Lube Oil	High	0	0	0	0	0	0	N		WP	A
50 - 78J	TB-2	150'-0"	303	Reactor Feed Pump Turbine Lube Oil Room	N	340	Lube Oil	High	0	0	0	0	0	0	N		WP	A
50 - 78K	TB-2	150'-0"	304	Reactor Feed Pump Turbine Lube Oil Room	N	340	Lube Oil Cable Insulation	High	0	0	0	0	0	0	N		WP	A
50 - 78L	TB-3	165'-0"	463	Reactor Feed Pump Turbine Room	N	520	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		WP	A
50 - 78M	TB-3	165'-0"	461	Reactor Feed Pump Turbine Room	N	520	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		WP	A
50 - 78N	TB-3	165'-0"	459	Reactor Feed Pump Turbine Room	N	520	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		WP	A

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 78P	TB-2	165'-0"	421	Reactor Feed Pump Turbine Room	N	520	Cable Insulation Lube Oil	Moderate	0	0	0	0	0	0	N		WP	A
50 - 78R	TB-2	165'-0"	419	Reactor Feed Pump Turbine Room	N	520	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		WP	A
50 - 78S	TB-2	165'-0"	417	Reactor Feed Pump Turbine Room	N	520	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		WP	A
50 - 78T	TB-3	165'-0" 195'-0"	465 466 467 524	Turbine Area Washdown Area Laydown Area Ventilation Equipment Area	N	8990 1140 10443 8650 29223	Cable Insulation Lube Oil Rubber Polycarbonate	Low	0	0	0	3	0	0 3	N		HS PE PR* WP	M M M A
50 - 78U	TB-2	165'-0" 195'-0"	433 434 435 512	Turbine Area Laydown Area Washdown Area Ventilation Equipment Area	N	8990 10443 1140 8650 29223	Cable Insulation Lube Oil Plastic	Low	0	0	0	3	0	0 3	N		PR* WP HS PE	M A M M
50 - 78V	TB-3	102'-0" 110'-6" 116'-0" 135'-0"	55 56 181 182 183 272	Condenser Pits Condenser Pits Moisture Separator Area Condenser Area Condenser Room Piping Area Various Condenser Area Platforms	N	4407 6102 6882 10416 1000 5564 34371	Cable Insulation Wood	Low	0	0	0	0	0	0	N		PE WP HS	M A M
50 - 78W	TB-2	102'-0" 110'-6" 116'-0" 135'-0"	21 22 138 137 136 223	Condenser Pits Condenser Pits Moisture Separator Area Condenser Area Condenser Room Piping Area Various Condenser Area Platforms	N	6102 4407 6882 10416 1000 5434 34241	Cable Insulation	Low	0	0	0	0	0	0	N		WP PE HS	A M M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 78X	TB-2	96'-0" 106'-6"	20	Condensate Pump Pit & Platform	N	1728	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	S	2	PE	M
50 - 78Y	TB-3	96'-0" 106'-6"	57	Condensate Pump Pit & Platform	N	1728	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		PE	M
50 - 78AA	TB-2	116'-0"	116	Air Ejector Gland Seal Condenser Room	N	980	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 78BB	TB-2	116'-0"	117	Air Ejector Gland Seal Condenser Room	N	980	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 78CC	TB-2	116'-0"	118	Condenser Vacuum Pump Room	N	450	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		N	
50 - 78DD	TB-3	116'-0"	178	Air Ejector Gland Seal Condenser Room	N	980	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 78EE	TB-3	116'-0"	177	Air Ejector Gland Seal Condenser Room	N	980	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 78FF	TB-3	116'-0"	176	Condenser Vacuum Pump Room	N	450	Cable Insulation Lube Oil	Low	0	0	0	0	0	0	N		N	
50 - 78GG	TB-2	116'-0"	735	Radwaste Services Enclosure	Y	1650	Low Radwaste (lbs) Level Trash Lube Oil Plastic	Low	2	2	2	2	2	3	S	4	WP	A
50 - 79	TB-2	102'-0"	15	Condensate Backwash Tank Room	Y	528	Cable Insulation	Low	0	0	0	0	0	0	S	2	N	
50 - 80	TB-3	102'-0"	50	Condensate Backwash Tank Room	Y	585	Cable Insulation	Low	0	0	0	0	0	0	S	2	N	
50 - 81	CS	102'-0" to 180'-0"	431	Elevator Machine Room & Elevator Shaft	N	85	None	Low	0 3	0	0	0 3	0	0	N		N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 82	TB-2	116'-0"	129	Health Physics Utility Room	Y	120	Thermo-Lag 330-1	Low	0	0	0	0	0	0	S	1	N	
50 - 83	TB-2	165'-0"	415	Toilet	N	48	None	Low	3	0	0	3	0	0	N		N	
50 - 84	TB-2	165'-0"	436	Janitor Room	N	48	None	Low	0	0	0	3	0	0	N		N	
50 - 85	TB-2	165'-0"	406	Personnel Access Lock	N	56	None	Low	0	0	0	3	0	0	N		N	
50 - 86	TB-3	165'-0"	451	Personnel Access Lock	N	56	None	Low	0	0	0	3	0	0	N		N	
50 - 87	TB-3	116'-0"	175	Lube Oil Storage Room	N	345	Lube Oil Cable Insulation Plastic	High	0	0	0	0	0	0	N		WP	
50 - 88	TB-2	116'-0"	139	Turbine Lube Oil Storage Tank Area	N	2736	Cable Insulation Lube Oil	High	0	0	0	0	0	0	N		WP HS PE	A M M
50 - 89	TB-3	116'-0"	179	Turbine Lube Oil Storage Tank Area	N	2736	Cable Insulation Lube Oil	High	0	0	0	0	0	0	N		WP HS PE	A M M
50 - 90	TB-2	135'-0"	230	Turbine Lube Oil Reservoir Area	N	1800	Cable Insulation Lube Oil	High	0	0	0	0	0	0	N		WP HS PE	A M M
50 - 91	TB-2	135'-0"	224	EBOP Battery Room	N	484	Battery Cases	Low	0	0	0	0	0	0	N		N	
50 - 92	TB-2	135'-0"	N/A	Corridor Outside of Room 224 Note (2)	N		Cable Insulation	Low	0	0	0	0	0	0	N		WP PE	A M

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 93	TB-3	135'-0"	273	Turbine Lube Oil Reservoir Area	N	1800	Cable Insulation Lube Oil	High	0	0	0	0	0	0	N		WP HS PE	A M M
50 - 94	TB-3	135'-0"	276	EBOP Battery Room	N	484	Battery Cases	Low	0	0	0	0	0	0	N		N	
50 - 95	TB-3	135'-0"	N/A	Corridor Outside of Room 276 Note (3)	N		Cable Insulation	Low	0	0	0	0	0	0	N		WP PE	A M
50 - 96	TB-3	135'-0"	271	Feedwater Heater Room	N	1219	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 97	TB-3	135'-0"	270	Feedwater Heater Room	N	1219	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 98	TB-3	135'-0"	269	Feedwater Heater Room	N	1219	Cable Insulation	Low	0	3	0	0	0	0	N		N	
50 - 99	TB-2	135'-0"	222	Feedwater Heater Room	N	1219	Cable Insulation	Low	3	0	0	0	0	0	N		N	
50 - 100	TB-2	135'-0"	221	Feedwater Heater Room	N	1219	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 101	TB-2	135'-0"	220	Feedwater Heater Room	N	1219	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 102	TB-2	165'-0"	411	Feedwater Heater Room	N	600	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 103	TB-2	165'-0"	412	Feedwater Heater Room	N	600	Cable Insulation	Low	0	0	0	3	0	0	N		N	
50 - 104	TB-2	165'-0"	413	Feedwater Heater Room	N	600	Cable Insulation	Low	0	0	0	3	0	0	N		N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 105	TB-3	165'-0"	456	Feedwater Heater Room	N	600	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 106	TB-3	165'-0"	455	Feedwater Heater Room	N	600	Cable Insulation	Low	0	0	0	3	0	0	N		N	
50 - 107	TB-3	165'-0"	454	Feedwater Heater Room	N	600	Cable Insulation	Low	0	0	0	3	0	0	N		N	
50 - 109	TB-3	195'-0"	527 528	Prefilter & HEPA Filter Compartments Prefilter & HEPA Filter Compartments	N	238 238 476	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 110	TB-2	195'-0"	513	Prefilter & HEPA Filter Compartments	N	480	Cable Insulation	Low	0	0	0	0	0	0	N		N	
50 - 111	TB-3	116'-0" to 165'-0"	St 5	Stairtower No. 5	N	133	None	Low	0	0	0	0	0	0	N		PE	M
50 - 112	TB-2	116'-0" to 165'-0"	St 1	Stairtower No. 1	N	133	None	Low	0	0	0	0	0	0	N		PE	M
50 - 113	TB-2	116'-0" to 165'-0"	St 3	Stairtower No. 3	N	133	None	Low	0	0	0	0	0	0	N		N	
50 - 114	TB-2	116'-0"	132	Clean Clothes Room	Y	170	Thermo-Lag	Low	0	0	0	0	0	0	H	1	WP	A
50 - 115	TB-2	116'-0"	130	Toilet	N	264	Cable Insulation	Low	0	0	0	0	0	0	N		N	

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Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)						Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation
50 - 116	TB-2	116'-0"	131	Janitor	N	30	Plastic Wood	Low	0	0	0	0	0	0	N		N	
50 - 130	TB-2 & 3	102'-0"	18	U2 Off Gas Pipe Tunnel	Y	7680	Cable Insulation Thermo-Lag 330-1	Low	0	0	0	0	0	0	N		N	
50 - 131	TB-2 & 3	102'-0"	19	U3 Off Gas Pipe Tunnel	Y	9216	Cable Insulation Thermo-Lag 330-1	Low	0	0	0	0	0	0	N		N	
51 - 136	ECT	125'-0"	828	Platform	Y	450	None	Low	0	0	0	0	0	0	N		PE	M
51 - 137	ECT	153'-0"	824	Cooling Water Pump Room	Y	300	Lube Oil Cable Insulation	Low	0	0	0	0	0	0	H	1	PE	M
51 - 138	ECT	153'-0"	825	Switchgear Room	Y	322	None	Low	0	0	0	0	0	0	H	1	PE	M
51 - 139	ECT	153'-0"	826	Switchgear Room	Y	322	None	Low	0	0	0	0	0	0	H	1	PE	M
51 - 140	ECT	153'-0"	827	Switchgear Room	Y	322	None	Low	0	0	0	0	0	0	H	1	PE	M
52 - 141	CWPS	112'-0"	804	North Circulating Water Pump Structure Bay	Y	3420	Lube Oil Cable Insulation	Low	0	3	0	0	0	0	H	2	HS PE	M M
53 - 142	CWPS	112'-0"	800	South Circulating Water Pump Structure Bay	Y	3420	Lube Oil Cable Insulation Fuel Oil	Low	0 3	0	0	0	0	0	H	2	PE HS	M M
53 - 145	CWPS	112'-0"	802	Diesel Driven Fire Pump Room	N	185	Lube Oil	Moderate	2	0	0	2	0	0	H	1	WP	A

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TABLE A-1

Area-Zone	Structure	Elevation	Room No.	Area-Zone Description	S R	Floor Area (sq ft) Total	Fire Hazard Material	Combustible Loading	Structural Fire Resistance Rating (hours)							Detection		Suppression	
									N	S	E	W	U	D	Type	No.	Type	Actuation	
54 - 146	DG	127'-0"	809 810 815	Diesel Generator Cardox Room Diesel Generator Cardox Room Diesel Generator Cardox Room	Y	144 936 1728 2808	Lube Oil	Low	3	0	0	0	0	0	S	3	PE	M	
55 - 148	CWSS	116'-0"	805	U2 Circulating Water Screens	N	2105	Grease	Low	0	0	0	0	0	0	H	2	PE	M	
55 - 149	CWSS	116'-0"	806	High Pressure Service Water & Emergency Service Water Screens	N	1188	None	Low	0	0	0	0	0	0	H	2	PE	M	
55 - 150	CWSS	116'-0"	807	U3 Circulating Water Screens	N	2105	Grease	Low	0	0	0	0	0	0	H	2	PE	M	
57 -	CS	135'-0"	262	Corridor	Y	536	Cable Insulation Thermo-Lag 330-1 Thermo-Lag 770-1	Moderate	3	3	2	3	3	3	S	18	PR	A	
58 -	RB-3	135'-0"	258	Recirculating Pump MG Set Room	Y	3525	Cable Insulation Lube Oil Thermo-Lag 330-1 Thermo-Lag 770-1	Low	3	3	3	3	3	3	S	6	PR HS PE	A M M	

Note (1): Battery cases are not considered a hazard because of the following:
 (A) Batteries are filled with aqueous solution.
 (B) Battery cases have superior ignition resistance.
 (C) Battery cases have a very low heat release rate during a fire.

Note (2): The combustible loading for Fire Area-Zone 50-92 is included in Fire Area-Zone 50-90.

Note (3): The combustible loading for Fire Area-Zone 50-95 is included in Fire Area-Zone 50-93.

Detection

S = SMOKE DETECTOR
 H = HEAT DETECTOR
 L = LINEAR HEAT DETECTION

Actuation:

M = MANUAL
 A = AUTOMATIC

Suppression:

CH = CARDOX HOSE REEL
 CO2 = CARBON DIOXIDE
 DC = DRY CHEMICAL
 DL = DELUGE SYSTEM
 HS = HOSE STATION
 HC = HOSE CART
 N = NO SUPPRESSION
 PE = PORTABLE EXTINGUISHER

PR = PRE-ACTION SPRINKLER SYSTEM
 PR* = PRE-ACTION SPRINKLER SYSTEM (MANUALLY ACTUATED)
 WC = WATER CURTAIN SYSTEM
 WP = WET PIPE SPRINKLER SYSTEM
 WP* = WET PIPE SPRINKLER SYSTEM (PARTIAL COVERAGE)
 WS = WATER SPRAY SYSTEM

TABLE A-2

HEAT OF COMBUSTION VALUES

<u>Material Description</u>		<u>Unit (BTU/Unit)</u>	Heat of Combustion
1.	Acetylene gas	Pound	21,500
2.	Alcohol (ethyl)	Gallon	83,800
3.	Alcohol (methyl)	Gallon	65,500
4.	Battery cases (butadien acrylonitrile)	Unit	17,200
5.	Battery Spacers (polystyrene foam)	Pound	17,100
6.	Cable insulation	Pound	10,000
7.	Carpet (nylon)	Pound	13,600
8.	Charcoal	Pound	14,900
9.	Cloth (cotton)	Pound	8,800
10.	Fuel oil	Gallon	135,500
11.	Gasoline	Gallon	120,600
12.	Hydrogen	Pound	61,000
13.	Lube oil	Gallon	150,900
14.	Lubricant (grease)	Gallon	150,900
15.	Methane gas	Cu.Ft.	23,900
16.	Oxygen	Cu.Ft.	0
17.	Paper	Pound	8,500
18.	Plastic (polyethylene)	Pound	20,000
19.	Propane	Pound	21,700
20.	Rubber (butyl)	Pound	19,700
21.	Trash (40 pound bag)	Bag	290,500
22.	Wood (white pine)	Pound	8,300
23.	R/A Insulation	Pound	8,000
24.	Polycarbonate	Pound	13,300
25.	Thermo-Lag 330-1	Pound	7,000
26.	Thermo-Lag 770-1	Pound	4,800
27.	Rubber (silicone)	Pound	7,200

TABLE A-3

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LEGEND FOR
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

The information presented in each column of Table A-3 is explained as follows.

Equipment Number	Major Safe Shutdown Components
Component Description	Brief description of the component
Plant Sys.	General FSSD system designation for the component, based on the function the component provides KEY: ADS Automatic Depressurization System CREV Control Room Emergency Ventilation System CS Core Spray EPS Power Distribution System ESW Emergency Service Water System HI/LOW Selected Reactor Coolant Pressure Boundaries and High Low Pressure Interfaces HPCI High Pressure Coolant Injection System HPSW High Pressure Service Water System PM Process Monitoring PM-ALT Process Monitoring for Alternative Shutdown Capability RCIC Reactor Core Isolation Cooling System RHR Residual Heat Removal System
Room	Room location for the component
Fire Area	Fire Area location for the component Components located in Fire Areas which are subdivided by Combustible Free Zones have an North or South suffix provided to more precisely identify their location.

TABLE A-3

(Page 2 of 2)

LEGEND FOR
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

FSSD Sys. Design. Fire Safe Shutdown System/Train Designation
Populated for components which directly support a Safe Shutdown Function.

KEY:

A-BBBBBB-CD

A Unit (0, 2, 3)

BBBBB System Function Designation (see table below)

C Loop/Train (provided for multi-train systems)

D Unit (2, 3) pumps that can be used for cross connected system

System Function Designations:

ADS Automatic Depressurization System

ALT-PM Process Monitoring for Alternative Shutdown Capability

ALT-RCRIP RCIC shutdown capability for Alternative Shutdown Capability

CREV Control Room Emergency Ventilation System

CS Core Spray

ESW Emergency Service Water

HI/LOW Selected Reactor Coolant Pressure Boundaries and High Low Pressure Interfaces

HPCI High Pressure Coolant Injection System

HPCITRIP HPCI shutdown capability

HPSW High Pressure Service Water

NORM-PM Process Monitoring for Redundant Shutdown Methods

RCIC Reactor Core Isolation Cooling System

RCICTRIP RCIC shutdown capability

RHRLPCI RHR Low Pressure Coolant Injection Mode

RHRSC RHR Alternate Shutdown Cooling Mode

RHRSPC RHR Suppression Pool Cooling Mode

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
00A03A	2SU START UP TRANS SWGR	EPS	YARD	YARD	
00A04	343 SU TRANS SWGR	EPS	YARD	YARD	
00A19	4.16KV EMERGENCY AUX SEGREGATED BUS	EPS	206 217 226 227 231 261 262 263 265 267	04 38 36 39 37 32 57 35 34 33	
00A20	4.16KV EMERGENCY AUX SEGREGATED BUS	EPS	217 226 227 231 239 261 262 263 265 267	38 36 39 37 02 32 57 35 34 33	
00A25	13KV 3000 A BUS	EPS	YARD	YARD	
00B080	AUTOMATIC TRANSFER SWITCH FOR FEED TO 452-02 (#SU-25) AUXILIARIES	EPS	YARD	YARD	
00B380	LOCAL START/STOP MOTOR CONTROLLER (0AV030)	CREV	381	25	
00E068	CONTROL ROOM PRE-HEAT COIL	CREV	381	25	0-CREV
00E072	CONTROL ROOM RE-HEAT COIL	CREV	381	25	0-CREV
00L207	SBO SWGR 120/208 VAC DIST PNL	EPS	YARD	YARD	
00S092	MANUAL TRANSFER SWITCH	CREV	381	25	
00S093	480V RECEPTACLE	CREV	263	35	
00S096	480V RECEPTACLE	CREV	238	02	
00S306	MANUAL TRANSFER SWITCH	EPS	YARD	YARD	
00T116	CAD LIQUID NITROGEN STORAGE TANK	ADS	YARD	YARD	
00X03	2 START UP AND EMERGENCY AUX TRANSFORMER	EPS	YARD	YARD	
00X103	PANEL 00Y03 POWER TRANSFORMER	EPS	236	02	
00X11	343 START UP TRANSFORMER	EPS	YARD	YARD	
00Y03	120V AC PANEL 00Y03	EPS	236	02	
0AD13	125V DC DISTRIBUTION PANEL E1 DG	EPS	816	46	
0AE376	E1 D/G JACKET COOLANT COOLER	EPS	816	46	
0AE377	E1 D/G LUBE OIL COOLER	EPS	816	46	
0AE378	E1 D/G AIR COOLANT COOLER	EPS	816	46	
0AG12	4.16KV E1 DIESEL GENERATOR	EPS	816	46	

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
00T44	REFUEL WATER STORAGE TANK	HPCI/RCIC	Yard	Yard	2-HPCI 2-RCIC 3-HPCI 3-RCIC
0AG12R	GROUNDING RESISTOR	EPS	816	46	
0AG13	E1 PT AND EXCITER-REGULATOR EQUIPMENT	EPS	816	46	
0AP57	ESW PUMP A	ESW	801	48	0-ESW
0AP60	E1 FUEL OIL TRANSFER PUMP	EPS	816	46	
0AT038	E1 DIESEL FUEL OIL STORAGE TANK	EPS	YARD	YARD	
0AT040	E1 D/G FUEL OIL DAY TANK	EPS	820	46	
0AT096	E1 D/G LUBE OIL STORAGE TANK	EPS	816	46	
0AT97	E1 D/G COOLANT EXPANSION TANK	EPS	816	46	
0AV030	CREV SUPPLY FAN 'A'	CREV	381	25	0-CREV
0AV64	E1 DG BUILDING VENT SUPPLY FAN	EPS	811	46	
0AV91	E1 DG BUILDING SUPPLEMENTAL SUPPLY FAN	EPS	811	46	
0AX04	2 EMER AUX TRANS	EPS	YARD	YARD	
0AX048	452-02 (SU-25) BREAKER AUX EQUIPMENT XFMR A	EPS	YARD	YARD	
0BD13	125V DC DISTRIBUTION PANEL	EPS	817	45	
	E2 DG				
0BE376	E2 D/G JACKET COOLANT COOLER	EPS	817	45	
0BE377	E2 D/G LUBE OIL COOLER	EPS	817	45	
0BE378	E2 D/G AIR COOLANT COOLER	EPS	817	45	
0BG12	4.16KV E2 DIESEL GENERATOR	EPS	817	45	
0BG12R	GROUNDING RESISTOR	EPS	817	45	
0BG13	E2 PT AND EXCITER-REGULATOR EQUIPMENT	EPS	817	45	
0BP57	ESW PUMP B	ESW	803	47	0-ESW
0BP60	E2 FUEL OIL TRANSFER PUMP	EPS	817	45	
0BT038	E2 DIESEL FUEL OIL STORAGE TANK	EPS	YARD	YARD	
0BT040	E2 D/G FUEL OIL DAY TANK	EPS	821	45	
0BT095	E1 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	EPS	816	46	
0BT096	E2 D/G LUBE OIL STORAGE TANK	EPS	817	45	
0BT97	E2 D/G COOLANT EXPANSION TANK	EPS	817	45	
0BV030	CREV SUPPLY FAN 'B'	CREV	381	25	0-CREV
0BV64	E2 DG BUILDING VENT SUPPLY FAN	EPS	812	45	
0BV91	E2 DG BUILDING SUPPLEMENTAL SUPPLY FAN	EPS	812	45	
0BX04	3 EMER AUX TRANS	EPS	YARD	YARD	
0BX048	452-02 (SU-25) BREAKER AUX	EPS	YARD	YARD	

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
0CD13	EQUIPMENT XFMR B 125V DC DISTRIBUTION PANEL E3 DG	EPS	818	44	
0CE376	E3 D/G JACKET COOLANT COOLER	EPS	818	44	
0CE377	E3 D/G LUBE OIL COOLER	EPS	818	44	
0CE378	E3 D/G AIR COOLANT COOLER	EPS	818	44	
0CG12	4.16KV E3 DIESEL GENERATOR	EPS	818	44	
0CG12R	GROUNDING RESISTOR	EPS	818	44	
0CG13	E3 PT AND EXCITER-REGULATOR EQUIPMENT	EPS	818	44	
0CP60	E3 FUEL OIL TRANSFER PUMP	EPS	818	44	
0CT038	E3 DIESEL FUEL OIL STORAGE TANK	EPS	YARD	YARD	
0CT040	E3 D/G FUEL OIL DAY TANK	EPS	822	44	
0CT096	E3 D/G LUBE OIL STORAGE TANK	EPS	818	44	
0CT97	E3 D/G COOLANT EXPANSION TANK	EPS	818	44	
0CV64	E3 DG BUILDING VENT SUPPLY FAN	EPS	813	44	
0CV91	E3 DG BUILDING SUPPLEMENTAL SUPPLY FAN	EPS	813	44	
0DD13	125V DC DISTRIBUTION PANEL E4 DG	EPS	819	43	
0DE376	E4 D/G JACKET COOLANT COOLER	EPS	819	43	
0DE377	E4 D/G LUBE OIL COOLER	EPS	819	43	
0DE378	E4 D/G AIR COOLANT COOLER	EPS	819	43	
0DG12	4.16KV E4 DIESEL GENERATOR	EPS	819	43	
0DG12R	GROUNDING RESISTOR	EPS	819	43	
0DG13	E4 PT AND EXCITER-REGULATOR EQUIPMENT	EPS	819	43	
0DP60	E4 FUEL OIL TRANSFER PUMP	EPS	819	43	
0DT038	E4 DIESEL FUEL OIL STORAGE TANK	EPS	YARD	YARD	
0DT040	E4 D/G FUEL OIL DAY TANK	EPS	823	43	
0DT095	E2 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	EPS	817	45	
0DT096	E4 D/G LUBE OIL STORAGE TANK	EPS	819	43	
0DT97	E4 D/G COOLANT EXPANSION TANK	EPS	819	43	
0DV64	E4 DG BUILDING VENT SUPPLY FAN	EPS	814	43	
0DV91	E4 DG BUILDING SUPPLEMENTAL SUPPLY FAN	EPS	814	43	
0FT095	E3 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	EPS	818	44	
0HT095	E4 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	EPS	819	43	
0M12B	DC CONTACTOR	EPS	817	45	

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
0M12D	DC CONTACTOR	EPS	819	43	
2-43-3614/TI	MCC 20B324 MANUAL POWER TRANSFER SWITCH	EPS	206	04	
20A15	4.16KV EMERGENCY AUXILIARY SWGR E12	EPS	227	39	
20A16	4.16KV EMERGENCY AUXILIARY SWGR E22	EPS	231	37	
20A17	4.16KV EMERGENCY AUXILIARY SWGR E32	EPS	217	38	
20A18	4.16KV EMERGENCY AUXILIARY SWGR E42	EPS	226	36	
20B10	480V BUS LOAD CENTER E124	EPS	403	06S	
20B11	480V BUS LOAD CENTER E224	EPS	403	06S	
20B12	480V BUS LOAD CENTER E324	EPS	403	06S	
20B13	480V BUS LOAD CENTER E424	EPS	403	06S	
20B338	REMOTE STARTER FOR MO2-10-016D	EPS	206	04	
20C04BX	ALTERNATIVE SHUTDOWN PANEL ANNUNCIATION	HPCI	206	04	
20D11	250V DC HPCI 2DB BUS	EPS	205	06N	
20D12	250V DC RCIC 2DA BUS	EPS	105	02	
20D21	125V DC 2PPA POWER DISTRIBUTION PANEL	EPS	302	25	
20D22	125V DC 2PPB POWER DISTRIBUTION PANEL	EPS	302	25	
20D23	125V DC 2PPC POWER DISTRIBUTION PANEL	EPS	302	25	
20D24	125V DC 2PPD POWER DISTRIBUTION PANEL	EPS	302	25	
20D37	STATIC INVERTER	EPS	228	50	
20E104	RCIC TURBINE LUBE OIL COOLER	RCIC	7	02	
20E105	HPCI TURBINE LUBE OIL COOLER	HPCI	6	02	
20E32	BAROMETRIC CONDENSER	RCIC	7	02	2-RCIC
20E33	GLAND SEAL CONDENSER	HPCI	6	02	2-HPCI
20P26	HPCI AUXILIARY LUBE OIL PUMP	HPCI	6	02	
20S315	BYPASS/ISOLATION SWITCH	EPS	302	25	
20S37	HPCI TURBINE	HPCI	6	02	2-HPCI
20S38	RCIC TURBINE	RCIC	7	02	2-RCIC
20S598	AUTO TRANSFER SWITCH FOR MO2-10-016D	EPS	226	36	
20S700	MANUAL POWER TRANSFER SWITCH FOR 2AD03	EPS	217	38	
20S701	MANUAL POWER TRANSFER SWITCH FOR 20Y33	EPS	227	39	
20S702	MANUAL POWER TRANSFER SWITCH FOR 20Y34	EPS	231	37	
20S703	MANUAL POWER TRANSFER SWITCH FOR 20Y35	EPS	212	06S	

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
20S704	MANUAL POWER TRANSFER SWITCH FOR 00Y03	EPS	236	02	
20T010	CONDENSATE STORAGE TANK	HPCI/RCIC	YARD	YARD	
20X133	PANEL 20Y33 POWER TRANSFORMER	EPS	227	39	
20X134	PANEL 20Y34 POWER TRANSFORMER	EPS	231	37	
20X135	PANEL 20Y35 POWER TRANSFORMER	EPS	212	06S	
20X150	480V/120V TRANSFORMER STATIC INVERTER 20D37	EPS	227	39	
20X30	20B10 LOAD CENTER TRANSFORMER	EPS	403	06S	
20X31	20B11 LOAD CENTER TRANSFORMER	EPS	403	06S	
20X32	20B12 LOAD CENTER TRANSFORMER	EPS	403	06S	
20X33	20B13 LOAD CENTER TRANSFORMER	EPS	403	06S	
20Y33	120V AC PANEL	EPS	302	25	
20Y34	120V AC PANEL	EPS	302	25	
20Y35	120V AC PANEL	EPS	212	06S	
20Y50	120V UNINTERRUPTABLE AC PANEL	EPS	302	25	
2AD01	125V DC 2A STATION BATTERY	EPS	218	41	
2AD03-1	125V DC 2A-1 BATTERY CHARGER	EPS	217	38	
2AD03-2	125V DC 2A-2 BATTERY CHARGER	EPS	217	38	
2AD17	250V DC 2FBA FUSE BOX	EPS	218	41	
2AD18	250V DC 2DPA DISTRIBUTION PANEL	EPS	218	41	
2AD19	125V DC 2FA FUSE BOX	EPS	218	41	
2AD25	125V DC 2PPAD DISTRIBUTION PANEL	EPS	302	25	
2AE133	CORE SPRAY PUMP A MOTOR OIL COOLER HEAT EXCHANGER	ESW	12	05	
2AE24	RHR HEAT EXCHANGER	RHR	2 101	01	
2AP35	RHR PUMP A	RHR	2	01	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
2AP37	CORE SPRAY PUMP A	CS	12	05	2-CS-A
2AP42	HPSW PUMP A	HPSW	801	48	2-HPSW-A2 3-HPSW-A2
2AS377	BACKUP N2 SUPPLY TO ADS RV'S	ADS	203	06S	
2AS545	INSTRUMENT POWER AUTOMATIC TRANSFER SWITCH	EPS	302	25	
2AT545	INSTRUMENT N2 ACCUMULATOR	ADS	202	18	
2BD01	125V DC 2B STATION BATTERY	EPS	225	40	

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
2BD03-1	125V DC 2B-1 BATTERY CHARGER	EPS	226	36	
2BD03-2	125V DC 2B-2 BATTERY CHARGER	EPS	226	36	
2BD17	250V DC 2PBB FUSE BOX	EPS	225	40	
2BD18	250V DC 2DPB DISTRIBUTION PANEL	EPS	225	40	
2BD19	125V DC 2FB FUSE BOX	EPS	225	40	
2BD19X	125V DC 2FBX FUSE BOX	EPS	231	37	
2BD25	125V DC 2PPBD DISTRIBUTION PANEL	EPS	302	25	
2BD306	125V DC 2PPB DISTRIBUTION PANEL	EPS	231	37	
2BE133	CORE SPRAY PUMP B MOTOR OIL COOLER HEAT EXCHANGER	ESW	9	05	
2BE24	RHR HEAT EXCHANGER	RHR 103	4	02	
2BP35	RHR PUMP B	RHR	4	02	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
2BP37	CORE SPRAY PUMP B	CS	9	05	2-CS-B
2BP42	HPSW PUMP B	HPSW	801	48	2-HPSW-B2 3-HPSW-B2
2BS377	BACKUP N2 SUPPLY TO ADS RV'S	ADS	203	06S	
2BS456	MANUAL POWER TRANSFER SWITCH FOR 2BD03	EPS	226	36	
2BS545	INSTRUMENT POWER AUTOMATIC TRANSFER SWITCH	EPS	302	25	
2BT545	INSTRUMENT N2 ACCUMULATOR	ADS	202	18	
2CD01	125V DC 2C STATION BATTERY	EPS	218	41	
2CD03-1	125V DC 2C-1 BATTERY CHARGER	EPS	217	38	
2CD03-2	125V DC 2C-2 BATTERY CHARGER	EPS	217	38	
2CD17	250V DC 2FBC FUSE BOX	EPS	218	41	
2CD19	125V DC 2FC FUSE BOX	EPS	218	41	
2CE133	CORE SPRAY PUMP C MOTOR OIL COOLER HEAT EXCHANGER	ESW	11	05	
2CE24	RHR HEAT EXCHANGER	RHR	3 102	01	
2CP35	RHR PUMP C	RHR	3	01	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
2CP37	CORE SPRAY PUMP C	CS	11	05	2-CS-A
2CP42	HPSW PUMP C	HPSW	801	48	2-HPSW-A2 3-HPSW-A2
2CS377	BACKUP N2 SUPPLY TO ADS RV'S	ADS	203	06S	
2CS545	TI-2501 AUTO TRANSFER SWITCH	EPS	302	25	
2CT545	INSTRUMENT N2 ACCUMULATOR	ADS	202	18	
2DD01	125V DC 2D STATION BATTERY	EPS	225	40	
2DD03-1	125V DC 2D-1 BATTERY CHARGER	EPS	226	36	
2DD03-2	125 V DC 2D-2 BATTERY CHARGER	EPS	226	36	

PBAPS FPP
Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
2DD17	250V DC 2FBD FUSE BOX	EPS	225	40	
2DD19	125V DC 2FD FUSE BOX	EPS	225	40	
2DE133	CORE SPRAY PUMP D MOTOR OIL COOLER HEAT EXCHANGER	ESW	10	05	
2DE24	RHR HEAT EXCHANGER	RHR	5 104	02	
2DP35	RHR PUMP D	RHR	5	02	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
2DP37	CORE SPRAY PUMP D	CS	10	05	2-CS-B
2DP42	HPSW PUMP D	HPSW	801	48	2-HPSW-B2 3-HPSW-B2
2DS456	MANUAL POWER TRANSFER SWITCH FOR 2DD03	EPS	226	36	
2GT545	INSTRUMENT N2 ACCUMULATOR	ADS	202	18	
2KT545	INSTRUMENT N2 ACCUMULATOR	ADS	202	18	
3-43-3614/TI	MCC 30B324 MANUAL POWER TRANSFER SWITCH	EPS	258	58	
3-43-3643/TI	MO3-10-016A MANUAL POWER TRANSFER SWITCH	EPS	258	58	
30A15	4.16KV E13 EMERGENCY AUXILIARY SWGR	EPS	267	33	
30A16	4.16KV E23 EMERGENCY AUXILIARY SWGR	EPS	263	35	
30A17	4.16KV E33 EMERGENCY AUXILIARY SWGR	EPS	261	32	
30A18	4.16KV E43 EMERGENCY AUXILIARY SWGR	EPS	265	34	
30B10	480V AC BUS LOAD CENTER E134	EPS	444	13N	
30B11	480V AC BUS LOAD CENTER E234	EPS	444	13N	
30B12	480V AC BUS LOAD CENTER E334	EPS	444	13N	
30B13	480V AC BUS LOAD CENTER E434	EPS	444	13N	
30C04BX	ALTERNATIVE SHUTDOWN PANEL ANNUCIATION	HPCI	258	58	
30D11	250V DC HPCI 3DB BUS	EPS	250	13N	
30D12	250V DC RCIC 3DA BUS	EPS	162	02	
30D21	125V DC 3PPA POWER DISTRIBUTION PANEL	EPS	302	25	
30D22	125V DC 3PPB POWER DISTRIBUTION PANEL	EPS	302	25	
30D23	125V DC 3PPC POWER DISTRIBUTION PANEL	EPS	302	25	
30D24	125V DC 3PPD POWER DISTRIBUTION PANEL	EPS	302	25	
30D37	STATIC INVERTER	EPS	228	50	
30E104	RCIC TURBINE LUBE OIL COOLER	RCIC	47	02	
30E105	HPCI TURBINE LUBE OIL COOLER	HPCI	48	02	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
30E32	BAROMETRIC CONDENSER	RCIC	47	02	3-RCIC
30E33	GLAND SEAL CONDENSER	HPCI	48	02	3-HPCI
30P26	HPCI AUXILIARY LUBE OIL PUMP	HPCI	48	02	
30S315	BYPASS/ISOLATION SWITCH	EPS	302	25	
30S37	HPCI TURBINE	HPCI	48	02	3-HPCI
30S38	RCIC TURBINE	RCIC	47	02	3-RCIC
30S546	INSTRUMENT LOOP MANUAL POWER TRANSFER SWITCH	EPS	302	25	
30S598	M03-10-016A AUTOMATIC POWER TRANSFER SWITCH	EPS	267	33	
30S700	MANUAL POWER TRANSFER SWITCH FOR 3DD03	EPS	265	34	
30S701	MANUAL POWER TRANSFER SWITCH FOR 30Y33	EPS	267	33	
30S702	MANUAL POWER TRANSFER SWITCH FOR 30Y34	EPS	263	35	
30S703	MANUAL POWER TRANSFER SWITCH FOR 30Y35	EPS	257	13S	
30S704	MANUAL POWER TRANSFER SWITCH FOR 3CD03	EPS	261	32	
30S1048	MANUAL POWER TRANSFER SWITCH FOR MCC30B383	EPS	250	13S	
30T010	CONDENSATE STORAGE TANK	HPCI/RCIC	YARD	YARD	3-HPCI 3-RCIC
30X132	PANEL 30Y32 POWER TRANSFORMER	EPS	257	13S	
30X133	PANEL 30Y33 POWER TRANSFORMER	EPS	267	33	
30X134	PANEL 30Y34 POWER TRANSFORMER	EPS	263	35	
30X135	PANEL 30Y35 POWER TRANSFORMER	EPS	257	13S	
30X150	480V/120V TRANSFORMER FOR STATIC INVERTER 30D37	EPS	267	33	
30X30	30B10 LOAD CENTER TRANSFORMER	EPS	444	13N	
30X31	30B11 LOAD CENTER TRANSFORMER	EPS	444	13N	
30X32	30B12 LOAD CENTER TRANSFORMER	EPS	444	13N	
30X33	30B13 LOAD CENTER TRANSFORMER	EPS	444	13N	
30Y32	120V AC DISTRIBUTION PANEL	EPS	257	13S	
30Y33	120V AC PANEL	EPS	302	25	
30Y34	120V AC PANEL	EPS	302	25	
30Y35	120V AC PANEL	EPS	257	13S	
30Y50	120V UNINTERRUPTABLE AC PANEL	EPS	302	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
3AD01	125V DC STATION BATTERY	EPS	266	31	
3AD03-1	125V DC 3A-1 BATTERY CHARGER	EPS	261	32	
3AD03-2	125V DC 3A-2 BATTERY CHARGER	EPS	261	32	
3AD17	250V DC 3FBA FUSE BOX	EPS	266	31	
3AD18	250V DC 3DPA DISTRIBUTION PANEL	EPS	266	31	
3AD19	125V DC 3FA FUSE BOX	EPS	266	31	
3AD25	125V DC 3PPAD DISTRIBUTION PANEL	EPS	302	25	
3AE133	CORE SPRAY PUMP A MOTOR OIL COOLER HEAT EXCHANGER	ESW	45	12	
3AE24	RHR HEAT EXCHANGER	RHR 156	38	02	
3AP35	RHR PUMP A	RHR	38	02	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
3AP37	CORE SPRAY PUMP A	CS	45	12	3-CS-A
3AP42	HPSW PUMP A	HPSW	803	47	2-HPSW-A3
3AP42	HPSW PUMP A	HPSW	803	47	3-HPSW-A3
3AS377	BACKUP N2 SUPPLY TO ADS RV'S	ADS	250	13N	
3AS456	MANUAL POWER TRANSFER SWITCH FOR 3AD03	EPS	261	32	
3AS545	INSTRUMENT POWER AUTOMATIC TRANSFER SWITCH	EPS	302	25	
3AT540	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3AT545	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3BD01	125V DC 3B STATION BATTERY	EPS	268	30	
3BD03-1	125V DC 3B-1 BATTERY CHARGER	EPS	265	34	
3BD03-2	125V DC 3B-2 BATTERY CHARGER	EPS	265	34	
3BD17	250V DC 3FBB FUSE BOX	EPS	268	30	
3BD18	250V DC 3DPB DISTRIBUTION PANEL	EPS	268	30	
3BD19	125V DC 3FB FUSE BOX	EPS	268	30	
3BD25	125V DC 3PPBD DISTRIBUTION PANEL	EPS	302	25	
3BE133	CORE SPRAY PUMP B MOTOR OIL COOLER HEAT EXCHANGER	ESW	43	12	
3BE24	RHR HEAT EXCHANGER	RHR	40 158	10	
3BP35	RHR PUMP B	RHR	40	10	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
3BP37	CORE SPRAY PUMP B	CS	43	12	3-CS-B
3BP42	HPSW PUMP B	HPSW	803	47	2-HPSW-B3 3-HPSW-B3
3BS377	BACKUP N2 SUPPLY TO ADS RV'S	ADS	250	13N	
3BS545	INSTRUMENT POWER AUTOMATIC TRANSFER SWITCH	EPS	302	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
3BT540	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3BT545	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3CD01	125V DC 3C STATION BATTERY	EPS	266	31	
3CD03-1	125V DC 3C-1 BATTERY CHARGER	EPS	261	32	
3CD03-2	125V DC 3C-2 BATTERY CHARGER	EPS	261	32	
3CD17	250V DC 3FBC FUSE BOX	EPS	266	31	
3CD19	125V DC 3FC FUSE BOX	EPS	266	31	
3CE133	CORE SPRAY PUMP C MOTOR OIL COOLER HEAT EXCHANGER	ESW	44	12	
3CE24	RHR HEAT EXCHANGER	RHR	39 157	02	
3CP35	RHR PUMP C	RHR	39	02	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
3CP37	CORE SPRAY PUMP C	CS	44	12	3-CS-A
3CP42	HPSW PUMP C	HPSW	803	47	2-HPSW-A3 3-HPSW-A3
3CS377	BACKUP N2 SUPPLY TO ADS RV'S	ADS	250	13N	
3CS456	MANUAL POWER TRANSFER SWITCH FOR 3CD03	EPS	261	32	
3CT540	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3CT545	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3DD01	125V DC 3D STATION BATTERY	EPS	268	30	
3DD03-1	125V DC 3D-1 BATTERY CHARGER	EPS	265	34	
3DD03-2	125V DC 3D-2 BATTERY CHARGER	EPS	265	34	
3DD17	250V DC 3FBD FUSE BOX	EPS	268	30	
3DD19	125V DC 3FD FUSE BOX	EPS	268	30	
3DD19X	125V DC 3FDX FUSE BOX	EPS	265	34	
3DD306	125V DC PANEL 3PPD	EPS	265	34	
3DE133	CORE SPRAY PUMP D MOTOR OIL COOLER HEAT EXCHANGER	ESW	42	12	
3DE24	RHR HEAT EXCHANGER	RHR	41 159	10	
3DP35	RHR PUMP D	RHR	41	10	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
3DP37	CORE SPRAY PUMP D	CS	42	12	3-CS-B
3DP42	HPSW PUMP D	HPSW	803	47	2-HPSW-B3 3-HPSW-B3
3GT540	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3GT545	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3KT540	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
3KT545	INSTRUMENT N2 ACCUMULATOR	ADS	247	21	
516A	HPSW UNIT CROSS CONNECT VALVE	HPSW	801	48	2-HPSW-A3 2-HPSW-B3 3-HPSW-A2 3-HPSW-B2
516B	HPSW UNIT CROSS CONNECT VALVE	HPSW	803	47	2-HPSW-A3 2-HPSW-B3

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
					3-HPSW-A2 3-HPSW-B2
AO-0241A	DIESEL GENERATOR A COOLING WATER ISO VALVE	ESW	816	46	
AO-0241B	DIESEL GENERATOR B COOLING WATER ISO VALVE	ESW	817	45	
AO-0241C	DIESEL GENERATOR C COOLING WATER ISO VALVE	ESW	818	44	
AO-0241D	DIESEL GENERATOR D COOLING WATER ISO VALVE	ESW	819	43	
AO2-02-17	RPV HEAD VENT ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
AO2-02-18	RPV HEAD VENT ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
AO2-02-316	MAIN STEAM LINE D SAMPLE LINE ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
AO2-02-317	MAIN STEAM LINE D SAMPLE LINE ISOLATION VALVE	HI/LOW	403	06S	2-HI/LOW
AO2-02-39	RX RECIRC LOOP A SAMPLE LINE ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
AO2-02-40	RX RECIRC LOOP A SAMPLE LINE ISOLATION VALVE	HI/LOW	403	06S	2-HI/LOW
AO2-10-46A	RHR LPCI DISCHARGE TESTABLE CHECK VALVE	HI/LOW	202	18	2-HI/LOW
AO2-10-46B	RHR LPCI DISCHARGE TESTABLE CHECK VALVE	HI/LOW	202	18	2-HI/LOW
AO2-14-13A	CORE SPRAY DISCHARGE TESTABLE CHECK VALVE	HI/LOW	202	18	2-HI/LOW
AO2-14-13B	CORE SPRAY DISCHARGE TESTABLE CHECK VALVE	HI/LOW	202	18	2-HI/LOW
AO3-02-17	RPV HEAD VENT ISOLATION VALVE	HI/LOW	247	21	3-HI/LOW
AO3-02-18	RPV HEAD VENT ISOLATION VALVE	HI/LOW	247	21	3-HI/LOW
AO3-02-316	MAIN STEAM LINE D SAMPLE LINE ISOLATION VALVE	HI/LOW	247	21	3-HI/LOW
AO3-02-317	MAIN STEAM LINE D SAMPLE LINE ISOLATION VALVE	HI/LOW	444	13N	3-HI/LOW
AO3-02-39	RX RECIRC LOOP A SAMPLE LINE ISOLATION VALVE	HI/LOW	247	21	3-HI/LOW
AO3-02-40	RX RECIRC LOOP A SAMPLE LINE ISOLATION VALVE	HI/LOW	444	13N	3-HI/LOW

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
AO3-10-46A	RHR LPCI DISCHARGE TESTABLE CHECK VALVE	HI/LOW	247	21	3-HI/LOW
AO3-10-46B	RHR LPCI DISCHARGE TESTABLE CHECK VALVE	HI/LOW	247	21	3-HI/LOW
AO3-14-13A	CORE SPRAY DISCHARGE TESTABLE CHECK VALVE	HI/LOW	247	21	3-HI/LOW
AO3-14-13B	CORE SPRAY DISCHARGE TESTABLE CHECK VALVE	HI/LOW	247	21	3-HI/LOW
CV2-12-55	RWCU REJECT LINE CONTROL VALVE	HI/LOW	410	06S	2-HI/LOW 2-RCIC
CV3-12-55	RWCU REJECT LINE CONTROL VALVE	HI/LOW	452	13N	3-HI/LOW 3-RCIC
CV3-10-3677A	RHR A FLOW CONTROL VALVE	RHR	38	02	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
CV3-10-3677C	RHR C FLOW CONTROL VALVE	RHR	39	02	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
CV3-10-3677B	RHR B FLOW CONTROL VALVE	RHR	40	10	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
CV3-10-3677D	RHR D FLOW CONTROL VALVE	RHR	41	10	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
DPI2-10-130A	RHR/HPSW DIFFERENTIAL PRESSURE INDICATOR	RHR	426	25	
DPI2-10-130D	RHR/HPSW DIFFERENTIAL PRESSURE INDICATOR	RHR	426	25	
DPI2-10-179	RHR/HPSW DIFFERENTIAL PRESSURE INDICATOR	RHR	206	04	
DPI3-10-130A	RHR/HPSW DIFFERENTIAL PRESSURE INDICATOR	RHR	426	25	
DPI3-10-130C	RHR/HPSW DIFFERENTIAL PRESSURE INDICATOR	RHR	426	25	
DPI3-10-179	RHR/HPSW DIFFERENTIAL PRESSURE INDICATOR	RHR	258	58	
DPIS2-10-121A	RHR PUMP A DIFFERENTIAL PRESSURE SWITCH	RHR	2	01	
DPIS2-10-121B	RHR PUMP B DIFFERENTIAL PRESSURE SWITCH	RHR	4	02	
DPIS2-10-121C	RHR PUMP C DIFFERENTIAL PRESSURE SWITCH	RHR	3	01	
DPIS2-10-121D	RHR PUMP D DIFFERENTIAL PRESSURE SWITCH	RHR	5	02	
DPIS2-13-83	RCIC STEAM LINE HIGH DIFFERENTIAL PRESSURE SWITCH	RCIC	8	02	
DPIS2-13-84	RCIC STEAM LINE HIGH	RCIC	8	02	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	DIFFERENTIAL PRESSURE SWITCH				
DPIS2-14-81A	C.S. PUMP A DIFFERENTIAL	CS	12	05	
	PRESSURE INDICATING SWITCH				
DPIS2-14-81B	C.S. PUMP B DIFFERENTIAL	CS	9	05	
	PRESSURE INDICATING SWITCH				
DPIS2-14-81C	C.S. PUMP C DIFFERENTIAL	CS	11	05	
	PRESSURE INDICATING SWITCH				
DPIS2-14-81D	C.S. PUMP D DIFFERENTIAL	CS	10	05	
	PRESSURE INDICATING SWITCH				
DPIS2-23-76	HPCI STEAM LINE	HPCI	8	02	
	DIFFERENTIAL PRESSURE SWITCH				
DPIS2-23-77	HPCI STEAM LINE	HPCI	8	02	
	DIFFERENTIAL PRESSURE SWITCH				
DPIS3-10-121A	RHR PUMP A DIFFERENTIAL	RHR	38	02	
	PRESSURE SWITCH				
DPIS3-10-121B	RHR PUMP B DIFFERENTIAL	RHR	40	10	
	PRESSURE SWITCH				
DPIS3-10-121C	RHR PUMP C DIFFERENTIAL	RHR	39	02	
	PRESSURE SWITCH				
DPIS3-10-121D	RHR PUMP D DIFFERENTIAL	RHR	41	10	
	PRESSURE SWITCH				
DPIS3-13-83	RCIC STEAM LINE HIGH	RCIC	46	02	
	DIFFERENTIAL PRESSURE SWITCH				
DPIS3-13-84	RCIC STEAM LINE HIGH	RCIC	46	02	
	DIFFERENTIAL PRESSURE SWITCH				
DPIS3-14-81A	C.S. PUMP A DIFFERENTIAL	CS	45	12	
	PRESSURE INDICATING SWITCH				
DPIS3-14-81B	C.S. PUMP B DIFFERENTIAL	CS	43	12	
	PRESSURE INDICATING SWITCH				
DPIS3-14-81C	C.S. PUMP C DIFFERENTIAL	CS	44	12	
	PRESSURE INDICATING SWITCH				
DPIS3-14-81D	C.S. PUMP D DIFFERENTIAL	CS	42	12	
	PRESSURE INDICATING SWITCH				
DPIS3-23-76	HPCI STEAM LINE	HPCI	46	02	
	DIFFERENTIAL PRESSURE SWITCH				
DPIS3-23-77	HPCI STEAM LINE	HPCI	46	02	
	DIFFERENTIAL PRESSURE SWITCH				
DPS-8142A	UNIT 2 MSRV NITROGEN SUPPLY	ADS	302	25	
	DIFFERENTIAL PRESSURE SWITCH				
DPS-8142B	UNIT 2 MSRV NITROGEN SUPPLY	ADS	302	25	
	DIFFERENTIAL PRESSURE SWITCH				
DPS-9142A	UNIT 3 MSRV NITROGEN SUPPLY	ADS	302	25	
	DIFFERENTIAL PRESSURE SWITCH				
DPS-9142B	UNIT 3 MSRV NITROGEN SUPPLY	ADS	302	25	
	DIFFERENTIAL PRESSURE SWITCH				
DPT2-10-179	RHR/HPSW DIFFERENTIAL	RHR	104	02	
	PRESSURE TRANSMITTER				

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
DPT2-10-91A	RHR/HPSW DIFFERENTIAL PRESSURE TRANSMITTER	RHR	102	01	
DPT2-10-91D	RHR/HPSW DIFFERENTIAL PRESSURE TRANSMITTER	RHR	104	02	
DPT3-10-179	RHR/HPSW DIFFERENTIAL PRESSURE TRANSMITTER	RHR	159	10	
DPT3-10-91A	RHR/HPSW DIFFERENTIAL PRESSURE TRANSMITTER	RHR	156	02	
DPT3-10-91C	RHR/HPSW DIFFERENTIAL PRESSURE TRANSMITTER	RHR	156	02	
FC2-13-91	RCIC FLOW CONTROLLER	RCIC	426	25	
FC2-23-108	HPCI FLOW CONTROLLER	HPCI	426	25	
FC3-13-91	RCIC FLOW CONTROLLER	RCIC	426	25	
FC3-23-108	HPCI FLOW CONTROLLER	HPCI	426	25	
FI2-10-132A	HPSW FLOW INDICATOR	HPSW	426	25	
FI2-10-132B	HPSW FLOW INDICATOR	HPSW	426	25	
FI2-10-139A	RHR FLOW INDICATOR	RHR	426	25	
FI2-10-139B	RHR FLOW INDICATOR	RHR	426	25	
FI2-10-177	HPSW FLOW INDICATOR	HPSW	206	04	
FI2-10-178	RHR LOOP B FLOW INDICATOR	RHR	206	04	
FI2-10-97A	HPSW FLOW INDICATOR	HPSW	185	50	
FI2-10-97B	HPSW FLOW INDICATOR	HPSW	185	50	
FI2-13-91	RCIC FLOW INDICATOR	RCIC	426	25	
FI2-14-50A	CORE SPRAY LOOP A FLOW INDICATOR	CS	426	25	
FI2-14-50B	CORE SPRAY LOOP B FLOW INDICATOR	CS	426	25	
FI2-23-108	HPCI PUMP DISCHARGE FLOW INDICATOR	HPCI	426	25	
FI2-23-141	HPCI FLOW INDICATOR	HPCI	206	04	
FI3-10-132A	HPSW FLOW INDICATOR	HPSW	426	25	
FI3-10-132B	HPSW FLOW INDICATOR	HPSW	426	25	
FI3-10-139A	RHR FLOW INDICATOR	RHR	426	25	
FI3-10-139B	RHR FLOW INDICATOR	RHR	426	25	
FI3-10-177	HPSW FLOW INDICATOR	HPSW	258	58	
FI3-10-178	RHR LOOP B FLOW INDICATOR	RHR	258	58	
FI3-10-97A	HPSW FLOW INDICATOR	HPSW	185	50	
FI3-10-97B	HPSW FLOW INDICATOR	HPSW	185	50	
FI3-13-91	RCIC FLOW INDICATOR	RCIC	426	25	
FI3-14-50A	CORE SPRAY LOOP A FLOW INDICATOR	CS	426	25	
FI3-14-50B	CORE SPRAY LOOP B FLOW INDICATOR	CS	426	25	
FI3-23-108-1	HPCI PUMP DISCHARGE FLOW INDICATOR	HPCI	426	25	
FI3-23-141	HPCI FLOW INDICATOR	HPCI	258	58	
FR2-10-143	RHR FLOW RECORDER	RHR	426	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
FR3-10-143	RHR FLOW RECORDER	RHR	426	25	
FS-8130A	UNIT 2 MSRV NITROGEN SUPPLY FLOW SWITCH	ADS	302	25	
FS-8130B	UNIT 2 MSRV NITROGEN SUPPLY FLOW SWITCH	ADS	302	25	
FS-9130A	UNIT 3 MSRV NITROGEN SUPPLY FLOW SWITCH	ADS	302	25	
FS-9130B	UNIT 3 MSRV NITROGEN SUPPLY FLOW SWITCH	ADS	302	25	
FS2-13-57	RCIC PUMP LOW FLOW SWITCH	RCIC	8	02	
FS2-23-141	HPCI FLOW SWITCH	HPCI	206	04	
FS2-23-78	HPCI FLOW SENSOR SWITCH	HPCI	8	02	
FS3-13-57	RCIC PUMP LOW FLOW SWITCH	RCIC	46	02	
FS3-23-141	HPCI FLOW SWITCH	HPCI	258	58	
FS3-23-78	HPCI FLOW SENSOR SWITCH	HPCI	46	02	
FT-8130A	UNIT 2 MSRV NITROGEN SUPPLY FLOW TRANSMITTER	ADS	205	06N	
FT-8130B	UNIT 2 MSRV NITROGEN SUPPLY FLOW TRANSMITTER	ADS	212	06S	
FT-9130A	UNIT 3 MSRV NITROGEN SUPPLY FLOW TRANSMITTER	ADS	250	13N	
FT-9130B	UNIT 3 MSRV NITROGEN SUPPLY FLOW TRANSMITTER	ADS	250	13N	
FT2-10-109A	RHR FLOW TRANSMITTER	RHR	101	01	
FT2-10-109B	RHR FLOW TRANSMITTER	RHR	104	02	
FT2-10-177	HPSW FLOW TRANSMITTER	HPSW	185	50	
FT2-10-178	RHR LOOP B FLOW TRANSMITTER	RHR	104	02	
FT2-10-97A	HPSW FLOW TRANSMITTER	HPSW	185	50	
FT2-10-97B	HPSW FLOW TRANSMITTER	HPSW	185	50	
FT2-13-058	RCIC PUMP DISCHARGE FLOW TRANSMITTER	RCIC	8	02	
FT2-14-40A	CORE SPRAY LOOP A FLOW TRANSMITTER	CS	108	05	
FT2-14-40B	CORE SPRAY LOOP B FLOW TRANSMITTER	CS	107	05	
FT2-2-3-63A	JET PUMP FLOW TRANSMITTER	PM	205	06N	
FT2-23-082	HPCI PUMP DISCHARGE FLOW TRANSMITTER	HPCI	8	02	
FT2-23-141	HPCI FLOW TRANSMITTER	HPCI	8	02	
FT3-10-109A	RHR FLOW TRANSMITTER	RHR	156	02	
FT3-10-109B	RHR FLOW TRANSMITTER	RHR	159	10	
FT3-10-177	HPSW FLOW TRANSMITTER	HPSW	185	50	
FT3-10-178	RHR LOOP B FLOW TRANSMITTER	RHR	159	10	
FT3-10-97A	HPSW FLOW TRANSMITTER	HPSW	185	50	
FT3-10-97B	HPSW FLOW TRANSMITTER	HPSW	185	50	
FT3-13-058	RCIC PUMP DISCHARGE FLOW TRANSMITTER	RCIC	46	02	
FT3-14-40A	CORE SPRAY LOOP A FLOW	CS	161	12	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	TRANSMITTER				
FT3-14-40B	CORE SPRAY LOOP B FLOW	CS	160	12	
	TRANSMITTER				
FT3-2-3-63C	JET PUMP FLOW TRANSMITTER	PM	257	13S	
FT3-23-082	HPCI PUMP DISCHARGE FLOW	HPCI	46	02	
	TRANSMITTER				
FT3-23-141	HPCI FLOW TRANSMITTER	HPCI	46	02	
HO-4495	UNIT 2 RCIC TURBINE	RCIC	7	02	
	GOVERNOR VALVE				
HO-4512	UNIT 2 HPCI TURBINE CONTROL	HPCI	6	02	
	VALVE				
HO-4513	UNIT 2 HPCI TURBINE STOP	HPCI	6	02	2-HPCITRIP
	VALVE				
HO-5495	UNIT 3 RCIC TURBINE	RCIC	47	02	
	GOVERNOR VALVE				
HO-5512	UNIT 3 HPCI TURBINE CONTROL	HPCI	48	02	
	VALVE				
HO-5513	UNIT 3 HPCI TURBINE STOP	HPCI	48	02	3-HPCITRIP
	VALVE				
HV-0-16-11197	INLET BLOCK VALVE TO	ADS	YARD	YARD	
	PCV-7700				
HV-2-16-23333	BACKUP N2 SUPPLY FROM CAD	ADS	YARD	YARD	
	TANK				
HV-0-27C-16515	REFUEL WATER STORAGE TANK	HPCI/RCIC	124	50	2-HPCI
	BLOCK VALVE				2-RCIC
					3-HPCI
					3-RCIC
HV-3-16-33310	BACKUP N2 SUPPLY FROM CAD	ADS	252	U3	
	TANK			CFZS	
HV-3-16-33333	BACKUP N2 SUPPLY FROM CAD	ADS	YARD	YARD	
	TANK				
LI-2217	UNIT 2 CONDENSATE STORAGE	PM	426	25	2-NORM-PM
	TANK WATER LEVEL INDICATOR				
LI-3217	UNIT 3 CONDENSATE STORAGE	PM	426	25	3-NORM-PM
	TANK WATER LEVEL INDICATOR				
LI-8027	UNIT 2 SUPPRESSION POOL	PM	426	25	2-NORM-PM
	LEVEL INDICATOR				
LI-8123A	UNIT 2 SUPPRESSION POOL	PM	426	25	2-NORM-PM
	LEVEL INDICATOR				
LI-8453	UNIT 2 CONDENSATE STORAGE	PM	426	25	2-NORM-PM
	TANK LEVEL INDICATOR				
LI-8456	UNIT 2 SUPPRESSION POOL	PM-ALT	206	04	2-ALT-PM
	WATER LEVEL INDIACTOR				
LI-8459	UNIT 2 CONDENSATE STORAGE	PM-ALT	206	04	2-ALT-PM
	TANK WATER LEVEL INDICATOR				
LI-9027	UNIT 3 SUPPRESSION POOL	PM	426	25	3-NORM-PM
	LEVEL INDICATOR				
LI-9123A	UNIT 3 SUPPRESSION POOL	PM	426	25	3-NORM-PM

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	LEVEL INDICATOR				
LI-9453	UNIT 3 CONDENSATE STORAGE	PM	426	25	3-NORM-PM
	TANK LEVEL INDICATOR				
HV-3-27B-36034	UNIT 3 DEMIN RETURN HEADER	HPCI/RCIC	124	50	3-HPCI
	TO OR FROM UNIT 3 CST				3-RCIC
LI-9456	UNIT 3 SUPPRESSION POOL	PM-ALT	258	58	3-ALT-PM
	WATER LEVEL INDICATOR				
LI-9459	UNIT 3 CONDENSATE STORAGE	PM-ALT	258	58	3-ALT-PM
	TANK WATER LEVEL INDICATOR				
LI2-2-3-112	UNIT 2 REACTOR VESSEL WATER	PM-ALT	206	04	2-ALT-PM
	LEVEL INDICATOR				
LI2-2-3-113	REACTOR VESSEL WATER LEVEL	PM	426	25	2-NORM-PM
	INDICATOR				
LI2-2-3-85A	REACTOR VESSEL WATER LEVEL	PM	426	25	2-NORM-PM
	INDICATOR				
LI2-2-3-85B	REACTOR VESSEL WATER LEVEL	PM	426	25	2-NORM-PM
	INDICATOR				
LI2-2-3-86	REACTOR VESSEL WATER LEVEL	PM	426	25	2-NORM-PM
	INDICATOR				
LI3-2-3-112	UNIT 3 REACTOR VESSEL WATER	PM-ALT	258	58	3-ALT-PM
	LEVEL INDICATOR				
LI3-2-3-113	REACTOR VESSEL WATER LEVEL	PM	426	25	3-NORM-PM
	INDICATOR				
LI3-2-3-85A	REACTOR VESSEL WATER LEVEL	PM	426	25	3-NORM-PM
	INDICATOR				
LI3-2-3-85B	REACTOR VESSEL WATER LEVEL	PM	426	25	3-NORM-PM
	INDICATOR				
LI3-2-3-86	REACTOR VESSEL WATER LEVEL	PM	426	25	3-NORM-PM
	INDICATOR				
LISL2-13-170	CONDENSATE STORAGE TANK LOW	RCIC	403	06S	
	LEVEL INDICATOR SWITCH				
LISL2-13-171	CONDENSATE STORAGE TANK LOW	RCIC	403	06S	
	LEVEL INDICATOR SWITCH				
LISL3-13-170	CONDENSATE STORAGE TANK LOW	RCIC	444	13N	
	LEVEL INDICATOR SWITCH				
LISL3-13-171	CONDENSATE STORAGE TANK LOW	RCIC	444	13N	
	LEVEL INDICATOR SWITCH				
LR-2217	UNIT 2 CONDENSATE STORAGE	PM	426	25	
	TANK LEVEL RECORDER				
LR-3217	UNIT 3 CONDENSATE STORAGE	PM	426	25	
	TANK LEVEL RECORDER				
LR-8027	UNIT 2 SUPPRESSION POOL	PM	426	25	2-NORM-PM
	LEVEL RECORDER				
LR-8123B	UNIT 2 SUPPRESSION POOL	PM	426	25	2-NORM-PM
	LEVEL RECORDER				
LR-9027	UNIT 3 SUPPRESSION POOL	PM	426	25	3-NORM-PM
	LEVEL RECORDER				
LR-9123B	UNIT 3 SUPPRESSION POOL	PM	426	25	3-NORM-PM

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	LEVEL RECORDER				
LR2-2-3-110A	REACTOR VESSEL WATER LEVEL	PM	426	25	2-NORM-PM
	RECORDER				
LR2-2-3-110B	REACTOR VESSEL WATER LEVEL	PM	426	25	2-NORM-PM
	RECORDER				
LR3-2-3-110A	REACTOR VESSEL WATER LEVEL	PM	426	25	3-NORM-PM
	RECORDER				
LR3-2-3-110B	REACTOR VESSEL WATER LEVEL	PM	426	25	3-NORM-PM
	RECORDER				
LS-0566A	DIESEL GENERATOR A DAY TANK	EPS	820	46	
	LEVEL SWITCH				
LS-0566B	DIESEL GENERATOR B DAY TANK	EPS	821	45	
	LEVEL SWITCH				
LS-0566C	DIESEL GENERATOR C DAY TANK	EPS	822	44	
	LEVEL SWITCH				
LS-0566D	DIESEL GENERATOR D DAY TANK	EPS	823	43	
	LEVEL SWITCH				
LS-8027A	LEVEL RECORDER LR-8027	PM	302	25	
	LEVEL SWITCH				
LS-8027B	LEVEL INDICATOR LI-8027	PM	302	25	
	LEVEL SWITCH				
LS-8456	UNIT 2 SUPPRESSION POOL	PM-ALT	206	04	
	HIGH LEVEL SWITCH				
LS-8459	UNIT 2 CONDENSATE STORAGE	PM-ALT	206	04	
	TANK LOW LEVEL SWITCH				
LS-9027A	LEVEL RECORDER LR-9027	PM	302	25	
	LEVEL SWITCH				
LS-9027B	LEVEL INDICATOR LI-9027	PM	302	25	
	LEVEL SWITCH				
LS-9456	UNIT 3 SUPPRESSION POOL	PM-ALT	258	58	
	HIGH LEVEL SWITCH				
LS-9459	UNIT 3 CONDENSATE STORAGE	PM-ALT	258	58	
	TANK LOW LEVEL SWITCH				
LS2-2-3-112	UNIT 2 REACTOR VESSEL HIGH	PM-ALT	206	04	
	LEVEL SWITCH				
LS2-23-74	CONDENSATE STORAGE TANK	HPCI	219	50	
	LOW-LOW LEVEL SWITCH				
LS2-23-75	CONDENSATE STORAGE TANK	HPCI	219	50	
	LOW-LOW LEVEL SWITCH				
LS2-23-91A	SUPPRESSION POOL HIGH LEVEL	HPCI	9	05	
	SWITCH				
LS2-23-91B	SUPPRESSION POOL HIGH LEVEL	HPCI	9	05	
	SWITCH				
LS2-23-98	HPCI CONDENSER DRAIN POT	HPCI	6	02	
	HIGH LEVEL SWITCH				
LS3-2-3-112	UNIT 3 REACTOR VESSEL HIGH	PM-ALT	258	58	
	LEVEL SWITCH				
LS3-23-74	CONDENSATE STORAGE TANK	HPCI	264	50	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
LS3-23-75	LOW-LOW LEVEL SWITCH CONDENSATE STORAGE TANK	HPCI	264	50	
LS3-23-91A	LOW-LOW LEVEL SWITCH SUPPRESSION POOL HIGH LEVEL	HPCI	44	12	
LS3-23-91B	SWITCH SUPPRESSION POOL HIGH LEVEL	HPCI	44	12	
LS3-23-98	SWITCH HPCI CONDENSER DRAIN POT	HPCI	48	02	
LT-2217	HIGH LEVEL SWITCH UNIT 2 CONDENSATE STORAGE	PM	124	50	
LT-3217	TANK LEVEL TRANSMITTER UNIT 3 CONDENSATE STORAGE	PM	170	50	
LT-8027A	TANK LEVEL TRANSMITTER UNIT 2 SUPPRESSION POOL	PM	9	05	
LT-8027B	LEVEL TRANSMITTER UNIT 2 SUPPRESSION POOL	PM	9	05	
LT-8123A	LEVEL TRANSMITTER UNIT 2 SUPPRESSION POOL	PM	9	05	
LT-8123B	LEVEL TRANSMITTER UNIT 2 SUPPRESSION POOL	PM	4	02	
LT-8453	LEVEL TRANSMITTER UNIT 2 CONDENSATE STORAGE	PM	108	05	
LT-8456	TANK LEVEL TRANSMITTER UNIT 2 SUPPRESSION POOL	PM-ALT	4	02	
LT-8459	WATER LEVEL TRANSMITTER UNIT 2 CONDENSATE STORAGE	PM-ALT	124	50	
LT-9027A	TANK WATER LEVEL TRANSMITTER UNIT 3 SUPPRESSION POOL	PM	44	12	
LT-9027B	LEVEL TRANSMITTER UNIT 3 SUPPRESSION POOL	PM	44	12	
LT-9123A	LEVEL TRANSMITTER UNIT 3 SUPPRESSION POOL	PM	44	12	
LT-9123B	LEVEL TRANSMITTER UNIT 3 SUPPRESSION POOL	PM	40	10	
LT-9453	LEVEL TRANSMITTER UNIT 3 CONDENSATE STORAGE	PM	160	12	
LT-9456	TANK LEVEL TRANSMITTER UNIT 3 SUPPRESSION POOL	PM-ALT	40	10	
LT-9459	WATER LEVEL TRANSMITTER UNIT 3 CONDENSATE STORAGE	PM-ALT	170	50	
LT2-13-170	TANK WATER LEVEL TRANSMITTER CONDENSATE STORAGE TANK	RCIC	124	50	
LT2-13-171	LEVEL TRANSMITTER CONDENSATE STORAGE TANK	RCIC	124	50	
LT2-2-3-112	LEVEL TRANSMITTER UNIT 2 REACTOR VESSEL WATER	PM-ALT	403	06S	
	LEVEL TRANSMITTER				

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
LT2-2-3-113	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	205	06N	
LT2-2-3-61	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	403	06S	
LT2-2-3-72A	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	403	06S	
LT2-2-3-72B	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	403	06S	
LT2-2-3-72C	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	403	06S	
LT2-2-3-72D	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	403	06S	
LT3-13-170	CONDENSATE STORAGE TANK LEVEL TRANSMITTER	RCIC	170	50	
LT3-13-171	CONDENSATE STORAGE TANK LEVEL TRANSMITTER	RCIC	170	50	
LT3-2-3-112	UNIT 3 REACTOR VESSEL WATER LEVEL TRANSMITTER	PM-ALT	257	13S	
LT3-2-3-113	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	257	13S	
LT3-2-3-61	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	444	13N	
LT3-2-3-72A	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	444	13N	
LT3-2-3-72B	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	257	13S	
LT3-2-3-72C	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	444	13N	
LT3-2-3-72D	REACTOR VESSEL WATER LEVEL TRANSMITTER	PM	301	25	
MCC00B49	480V AC MOTOR CONTROL CENTER	EPS	217	38	
MCC00B50	480V AC MOTOR CONTROL CENTER	EPS	265	34	
MCC00B53	480V AC MOTOR CONTROL CENTER	EPS	816	46	
MCC00B54	480V AC MOTOR CONTROL CENTER	EPS	817	45	
MCC00B55	480V AC MOTOR CONTROL CENTER	EPS	818	44	
MCC00B56	480V AC MOTOR CONTROL CENTER	EPS	819	43	
MCC00B61	480V AC MOTOR CONTROL CENTER	EPS	801	48	
MCC00B62	480V AC MOTOR CONTROL CENTER	EPS	803	47	
MCC20B324	480V AC MOTOR CONTROL CENTER REMOTE STARTER	EPS	206	04	
MCC20B325	480V AC MOTOR CONTROL CENTER REMOTE STARTER	EPS	206	04	
MCC20B36	480V AC MOTOR CONTROL CENTER	EPS	403	06S	
MCC20B37	480V AC MOTOR CONTROL CENTER	EPS	205	06N	
MCC20B38	480V AC MOTOR CONTROL CENTER	EPS	212	06S	
MCC20B39	480V AC MOTOR CONTROL CENTER	EPS	105	02	
MCC20B59	480V AC MOTOR CONTROL CENTER	EPS	227	39	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MCC20B60	480V AC MOTOR CONTROL CENTER	EPS	231	37	
MCC30B324	480V AC MOTOR CONTROL CENTER REMOTE STARTER	EPS	258	58	
MCC30B325	480V AC MOTOR CONTROL CENTER REMOTE STARTER	EPS	258	58	
MCC30B338	MCC FOR VALVE MO3-10-016A	EPS	258	58	
MCC30B383	480V AC MOTOR CONTROL CENTER REMOTE STARTER	EPS	801	48	
MCC30B36	480V AC MOTOR CONTROL CENTER	EPS	162	02	
MCC30B37	480V AC MOTOR CONTROL CENTER	EPS	250	13N	
MCC30B38	480V AC MOTOR CONTROL CENTER	EPS	257	13S	
MCC30B39	480V AC MOTOR CONTROL CENTER	EPS	250	13N	
MCC30B59	480V AC MOTOR CONTROL CENTER	EPS	267	33	
MCC30B60	480V AC MOTOR CONTROL CENTER	EPS	263	35	
MCC30B79	480V AC MOTOR CONTROL CENTER	EPS	162	2	
MCC30B81	480V AC MOTOR CONTROL CENTER	EPS	257	13S	
MCC30B80	480V AC MOTOR CONTROL CENTER	EPS	250	13N	
MCC30B82	480V AC MOTOR CONTROL CENTER	EPS	250	13N	
MO-0498	ESW DISCHARGE VALVE TO DISCHARGE POND	ESW	815	54	0-ESW
MO-0502A	HPSW INLET TO ECT RESERVOIR	HPSW	828	51	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3 3-HPSW-A2 3-HPSW-A3 3-HPSW-B2 3-HPSW-B3
MO-0502B	HPSW B INLET TO ECT RESERVOIR	HPSW	828	51	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3 3-HPSW-A2 3-HPSW-A3 3-HPSW-B2 3-HPSW-B3
MO-2213	ESW SLUICE GATE	ESW	YARD	YARD	
MO-2233A	HPSW SLUICE GATE	HPSW	806	55	
MO-2233B	HPSW SLUICE GATE	HPSW	806	55	
MO-2344	HPSW HEADER CROSSTIE	HPSW	801	48	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3 3-HPSW-A2 3-HPSW-B2
MO-2486	HPSW DISCHARGE TO POND	HPSW	815	54	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MO-2663	LONG PATH RECIRC. COMMON RETURN VALVE	HPCI/RCIC HI/LOW	208	17	2-HPCI 2-RCIC 2-HI/LOW
MO-2803	HPSW DISCHARGE TO RESERVOIR	HPSW	815	54	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3
MO-2972	ESW HEADER CROSS CONNECT ISOLATION VALVE	ESW	105	02	
MO-3213	ESW SLUICE GATE	ESW	YARD	YARD	
MO-3233A	HPSW SLUICE GATE	HPSW	806	55	
MO-3233B	HPSW SLUICE GATE	HPSW	806	55	
MO-3344	HPSW HEADER CROSSTIE	HPSW	803	47	2-HPSW-A3 2-HPSW-B3 3-HPSW-A2 3-HPSW-A3 3-HPSW-B2 3-HPSW-B3
MO-3486	HPSW DISCHARGE TO POND	HPSW	815	54	3-HPSW-A2 3-HPSW-A3 3-HPSW-B2 3-HPSW-B3
MO-3663	LONG PATH RECIRC. COMMON RETURN VALVE	HPCI/RCIC HI/LOW	254	20	3-HPCI 3-RCIC 3-HI/LOW
MO-3803	HPSW DISCHARGE TO RESERVOIR	HPSW	815	54	3-HPSW-A2 3-HPSW-A3 3-HPSW-B2 3-HPSW-B3
MO-3972	ESW HEADER CROSS-CONNECT ISOLATION VALVE	ESW	162	02	
MO-4244	UNIT 2 RCIC VACUUM BREAKER VALVE	RCIC	1	05	2-RCIC
MO-4244A	UNIT 2 HPCI VACUUM BREAKER VALVE	HPCI	1	05	2-HPCI
MO-4487	UNIT 2 RCIC TURBINE TRIP AND TROTTL VALVE	RCIC	7	02	2-ALT-RCTRIP 2-RCICTRIP
MO-5244	UNIT 3 RCIC VACUUM BREAKER VALVE	RCIC	37	12	3-RCIC
MO-5244A	UNIT 3 HPCI VACUUM BREAKER VALVE	HPCI	37	12	3-HPCI
MO-5487	UNIT 3 RCIC TURBINE TRIP AND THROTTLE VALVE	RCIC	47	02	3-ALT-RCTRIP 3-RCICTRIP
MO2-02-029A	FEEDWATER INJECTION VALVE	HPCI	202	18	2-HPCI 2-HPCITRIP
MO2-02-029B	FEEDWATER ISOLATION VALVE	RCIC	202	18	2-RCIC 2-RCICTRIP
MO2-02-038A	FEEDWATER LONG PATH RECIRC. ISOLATION VALVE	HPCI	208	17	2-HPCI 2-RCIC

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MO2-02-038B	FEEDWATER LONG PATH RECIRC. ISOLATION VALVE	RCIC HI/LOW	208	17	2-HPCI 2-RCIC 2-HI/LOW
MO2-02-053A	RECIRC PUMP 2A DISCHARGE ISOLATION VALVE	RHR	202	18	2-RHRLPCI-A
MO2-02-053B	RECIRC PUMP 2B DISCHARGE ISOLATION VALVE	RHR	202	18	2-RHRLPCI-B
MO2-02-74	MAIN STEAM DRAIN LINE HEADER ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
MO2-02-77	MAIN STEAM DRAIN LINE HEADER ISOLATION VALVE	HI/LOW	208	17	2-HI/LOW
MO2-10-013A	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	2	01	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-013B	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	4	02	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-013C	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	3	01	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-013D	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	5	02	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-016A	RHR MINIMUM FLOW RECIRC VALVE	RHR	2	01	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-016B	RHR MINIMUM FLOW RECIRC VALVE	RHR	4	02	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-016C	RHR MINIMUM FLOW RECIRC VALVE	RHR	3	01	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-016D	RHR MINIMUM FLOW RECIRC VALVE	RHR	5	02	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-017	RHR SHUTDOWN COOLING ISOLATION VALVE	HI/LOW	204	06N	2-HI/LOW
MO2-10-018	RHR SHUTDOWN COOLING ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
MO2-10-020	RHR LOOPS A/B X-TIE	RHR	1	05	
MO2-10-025A	RHR LPCI INJECTION VALVE	RHR	203	06S	2-HI/LOW 2-RHRLPCI-A 2-RHRSC-A
MO2-10-025B	RHR LPCI INJECTION VALVE	RHR	204	06N	2-HI/LOW 2-RHRLPCI-B 2-RHRSC-B
MO2-10-026A	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	203	06S	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MO2-10-026B	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	204	06N	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-031A	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	403	06S	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-031B	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	204	06N	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-034A	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	1	05	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-034B	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	1	05	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-038A	RHR LOOP A TORUS SPRAY VALVE	RHR	1	05	2-RHRLPCI-A
MO2-10-038B	RHR LOOP B TORUS SPRAY VALVE	RHR	1	05	2-RHRLPCI-B
MO2-10-039A	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	1	05	2-RHRLPCI-A 2-RHRSC-A 2-RHRSPC-A
MO2-10-039B	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	1	05	2-RHRLPCI-B 2-RHRSC-B 2-RHRSPC-B
MO2-10-154A	RHR LPCI INJECTION VALVE	RHR	1	05	2-RHRLPCI-A 2-RHRSC-A
MO2-10-154B	RHR LPCI INJECTION VALVE	RHR	1	05	2-RHRLPCI-B 2-RHRSC-B
MO2-10-174	HPSW TO RHR EMERGENCY INNER CROSS TIE VALVE	HPSW	4	02	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3 3-HPSW-A2 3-HPSW-B2
MO2-10-176	HPSW TO RHR EMERGENCY OUTER CROSS TIE VALVE	HPSW	4	02	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3 3-HPSW-A2 3-HPSW-B2
MO2-10-89A	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	101	01	2-HPSW-A2 2-HPSW-A3 2-HPSW-B2 2-HPSW-B3 3-HPSW-A2 3-HPSW-B2
MO2-10-89B	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	103	02	2-HPSW-A2 2-HPSW-A3

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
					2-HPSW-B2
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-B2
MO2-10-89C	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	102	01	2-HPSW-A2
					2-HPSW-A3
					2-HPSW-B2
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-B2
MO2-10-89D	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	104	02	2-HPSW-A2
					2-HPSW-A3
					2-HPSW-B2
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-B2
MO2-12-015	RWCU LETDOWN INBOARD ISOLATION VALVE	HI/LOW	202	18	2-HI/LOW
					2-RCIC
MO2-12-018	RWCU LETDOWN OUTBOARD ISOLATION VALVE	HI/LOW	400	06S	2-HI/LOW
					2-RCIC
MO2-12-053	RWCU REJECT LINE ORIFICE BYPASS VALVE	HI/LOW	410	06S	2-HI/LOW
					2-RCIC
MO2-12-056	RWCU REJECT LINE TO CONDENSER ISOLATION VALVE	HI/LOW	403	06S	2-HI/LOW
					2-RCIC
MO2-12-057	RWCU REJECT LINE TO COLLECTOR TANKS ISOLATION VALVE	HI/LOW	403	06S	2-HI/LOW
					2-RCIC
MO2-13-015	INBOARD RCIC STEAM SUPPLY ISOLATION VALVE	RCIC	202	18	2-RCIC
					2-RCICTRIP
MO2-13-016	OUTBOARD RCIC STEAM SUPPLY ISOLATION VALVE	RCIC	208	17	2-RCIC
					2-RCICTRIP
MO2-13-018	RCIC PUMP SUCTION FROM CONDENSATE STORAGE TANK	RCIC	7	02	2-RCIC
MO2-13-020	RCIC OUTBOARD DISCHARGE ISOLATION VALVE	RCIC	7	02	2-RCIC
MO2-13-021	INBOARD RCIC DISCHARGE ISOLATION VALVE	RCIC	208	17	2-RCIC
MO2-13-027	RCIC MINIMUM FLOW RECIRC VALVE	RCIC	7	02	2-RCIC
					2-RCICTRIP
MO2-13-030	RCIC TEST LINE ISOLATION VALVE	RCIC	1	05	2-RCIC
MO2-13-039	RCIC PUMP SUCTION FROM SUPPRESSION POOL	RCIC	7	02	2-RCIC
MO2-13-041	RCIC PUMP SUCTION FROM SUPPRESSION POOL	RCIC	7	02	2-RCIC
MO2-13-131	RCIC TURBINE STEAM SUPPLY ISOLATION VALVE	RCIC	7	02	2-RCIC
MO2-13-132	RCIC LUBE OIL COOLING WATER	RCIC	7	02	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	ISOLATION VALVE				
MO2-14-011A	OUTBOARD CORE SPRAY LOOP A	CS	203	06S	2-CS-A
	DISCHARGE VALVE				
MO2-14-011B	OUTBOARD CORE SPRAY LOOP B	CS	204	06N	2-CS-B
	DISCHARGE VALVE				
MO2-14-012A	INBOARD CORE SPRAY LOOP A	CS	203	06S	2-CS-A
	DISCHARGE VALVE				2-HI/LOW
MO2-14-012B	INBOARD CORE SPRAY LOOP B	CS	204	06N	2-CS-B
	DISCHARGE VALVE				2-HI/LOW
MO2-14-026A	CORE SPRAY LOOP A TEST	CS	1	05	2-CS-A
	ISOLATION VALVE				
MO2-14-026B	CORE SPRAY LOOP B TEST	CS	1	05	2-CS-B
	ISOLATION VALVE				
MO2-14-05A	CORE SPRAY PUMP A MINIMUM	CS	12	05	2-CS-A
	FLOW RECIRC VALVE				
MO2-14-05B	CORE SPRAY PUMP B MINIMUM	CS	9	05	2-CS-B
	FLOW RECIRC VALVE				
MO2-14-05C	CORE SPRAY PUMP C MINIMUM	CS	11	05	2-CS-A
	FLOW RECIRC VALVE				
MO2-14-05D	CORE SPRAY PUMP D MINIMUM	CS	10	05	2-CS-B
	FLOW RECIRC VALVE				
MO2-14-07A	CORE SPRAY PUMP A SUCTION	CS	12	05	2-CS-A
	VALVE				
MO2-14-07B	CORE SPRAY PUMP B SUCTION	CS	9	05	2-CS-B
	VALVE				
MO2-14-07C	CORE SPRAY PUMP C SUCTION	CS	11	05	2-CS-A
	VALVE				
MO2-14-07D	CORE SPRAY PUMP D SUCTION	CS	10	05	2-CS-B
	VALVE				
MO2-23-014	HPCI STEAM SUPPLY ISOLATION	HPCI	6	02	2-HPCI
	VALVE				
MO2-23-015	INBOARD HPCI STEAM SUPPLY	HPCI	202	18	2-HPCI
	ISOLATION VALVE				2-HPCITRIP
MO2-23-016	OUTBOARD HPCI STEAM SUPPLY	HPCI	204	06N	2-HPCI
	ISOLATION VALVE				2-HPCITRIP
MO2-23-017	HPCI PUMP SUCTION FROM	HPCI	6	02	2-HPCI
	CONDENSATE STORAGE TANK				
MO2-23-019	INBOARD HPCI PUMP DISCHARGE	HPCI	208	17	2-HPCI
	VALVE				
MO2-23-020	OUTBOARD HPCI PUMP	HPCI	6	02	2-HPCI
	DISCHARGE VALVE				
MO2-23-021	HPCI TEST RETURN LINE	HPCI	1	05	2-HPCI
	ISOLATION VALVE				
MO2-23-024	HPCI TEST LINE RETURN TO	HPCI	1	05	2-HPCI
	CONDENSATE STORAGE TANK				2-RCIC
MO2-23-025	HPCI MINIMUM FLOW RECIRC	HPCI	6	02	2-HPCI
	VALVE				2-HPCITRIP
MO2-23-031	HPCI TEST LINE RETURN TO	HPCI	1	05	2-HPCI

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	SUPPRESSION POOL				2-RCIC
MO2-23-057	HPCI PUMP SUCTION FROM	HPCI	6	02	2-HPCI
	SUPPRESSION POOL				
MO2-23-058	HPCI PUMP SUCTION FROM	HPCI	6	02	2-HPCI
	SUPPRESSION POOL				
MO3-02-029A	FEEDWATER INJECTION VALVE	HPCI	247	21	3-HPCI
					3-HPCITRIP
MO3-02-029B	FEEDWATER ISOLATION VALVE	RCIC	247	21	3-RCIC
					3-RCICTRIP
MO3-02-038A	FEEDWATER LONG PATH RECIRC. ISOLATION VALVE	HPCI	254	20	3-HPCI
					3-RCIC
MO3-02-038B	FEEDWATER LONG PATH RECIRC. ISOLATION VALVE	RCIC	254	20	3-HPCI
		HI/LOW			3-RCIC
					3-HI/LOW
MO3-02-053A	RECIRC PUMP 3A DISCHARGE ISOLATION VALVE	RHR	247	21	3-RHRLPCI-A
MO3-02-053B	RECIRC PUMP 3B DISCHARGE ISOLATION VALVE	RHR	247	21	3-RHRLPCI-B
MO3-02-74	MAIN STEAM DRAIN LINE HEADER ISOLATION VALVE	HI/LOW	247	21	3-HI/LOW
MO3-02-77	MAIN STEAM DRAIN LINE HEADER ISOLATION VALVE	HI/LOW	254	20	3-HI/LOW
MO3-10-013A	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	38	02	3-RHRLPCI-A
					3-RHRSC-A
					3-RHRSPC-A
MO3-10-013B	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	40	10	3-RHRLPCI-B
					3-RHRSC-B
					3-RHRSPC-B
MO3-10-013C	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	39	02	3-RHRLPCI-A
					3-RHRSC-A
					3-RHRSPC-A
MO3-10-013D	RHR SUCTION ISOLATION VALVE FROM SUPPRESSION POOL	RHR	41	10	3-RHRLPCI-B
					3-RHRSC-B
					3-RHRSPC-B
MO3-10-016A	RHR MINIMUM FLOW RECIRC VALVE	RHR	38	02	3-RHRLPCI-A
					3-RHRSC-A
					3-RHRSPC-A
MO3-10-016B	RHR MINIMUM FLOW RECIRC VALVE	RHR	40	10	3-RHRLPCI-B
					3-RHRSC-B
					3-RHRSPC-B
MO3-10-016C	RHR MINIMUM FLOW RECIRC VALVE	RHR	39	02	3-RHRLPCI-A
					3-RHRSC-A
					3-RHRSPC-A
MO3-10-016D	RHR MINIMUM FLOW RECIRC VALVE	RHR	41	10	3-RHRLPCI-B
					3-RHRSC-B
					3-RHRSPC-B
MO3-10-017	RHR SHUTDOWN COOLING	HI/LOW	249	13N	3-HI/LOW

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MO3-10-018	ISOLATION VALVE RHR SHUTDOWN COOLING	HI/LOW	247	21	3-HI/LOW
MO3-10-020	ISOLATION VALVE RHR LOOPS A/B X-TIE	RHR	37	12	
MO3-10-025A	RHR LPCI INJECTION VALVE	RHR	248	13S	3-HI/LOW 3-RHRLPCI-A 3-RHRSC-A
MO3-10-025B	RHR LPCI INJECTION VALVE	RHR	249	13N	3-HI/LOW 3-RHRLPCI-B 3-RHRSC-B
MO3-10-026A	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	248	13S	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
MO3-10-026B	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	249	13N	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
MO3-10-031A	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	248	13S	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
MO3-10-031B	RHR DRYWELL SPRAY ISOLATION VALVE	RHR	447	13N	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
MO3-10-034A	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	37	12	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
MO3-10-034B	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	37	12	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
MO3-10-038A	RHR LOOP A TORUS SPRAY VALVE	RHR	37	12	3-RHRLPCI-A
MO3-10-038B	RHR LOOP B TORUS SPRAY VALVE	RHR	37	12	3-RHRLPCI-B
MO3-10-039A	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	37	12	3-RHRLPCI-A 3-RHRSC-A 3-RHRSPC-A
MO3-10-039B	RHR SUPPRESSION POOL COOLING ISOLATION VALVE	RHR	37	12	3-RHRLPCI-B 3-RHRSC-B 3-RHRSPC-B
MO3-10-154A	RHR LPCI INJECTION VALVE	RHR	37	12	3-RHRLPCI-A 3-RHRSC-A
MO3-10-154B	RHR LPCI INJECTION VALVE	RHR	37	12	3-RHRLPCI-B 3-RHRSC-B
MO3-10-174	HPSW TO RHR EMERGENCY INNER CROSS TIE VALVE	HPSW	39	02	2-HPSW-A3 2-HPSW-B3 3-HPSW-A2 3-HPSW-A3 3-HPSW-B2 3-HPSW-B3
MO3-10-176	HPSW TO RHR EMERGENCY OUTER CROSS TIE VALVE	HPSW	39	02	2-HPSW-A3 2-HPSW-B3

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
					3-HPSW-A2
					3-HPSW-A3
					3-HPSW-B2
					3-HPSW-B3
MO3-10-89A	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	156	02	2-HPSW-A3
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-A3
					3-HPSW-B2
					3-HPSW-B3
MO3-10-89B	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	158	10	2-HPSW-A3
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-A3
					3-HPSW-B2
					3-HPSW-B3
MO3-10-89C	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	157	02	2-HPSW-A3
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-A3
					3-HPSW-B2
					3-HPSW-B3
MO3-10-89D	RHR HX DISCHARGE VALVE (HPSW SIDE)	RHR	159	10	2-HPSW-A3
					2-HPSW-B3
					3-HPSW-A2
					3-HPSW-A3
					3-HPSW-B2
					3-HPSW-B3
MO3-10-33452A	RHR A/C CROSS-TIE ISOLATION VALVE	RHR	38	02	3-RHRLPCI-A
					3-RHRSC-A
					3-RHRSPC-A
MO3-10-33452B	RHR B/D CROSS-TIE ISOLATION VALVE	RHR	41	10	3-RHRLPCI-B
					3-RHRSC-B
					3-RHRSPC-B
MO3-12-015	RWCU LETDOWN INBOARD ISOLATION VALVE	HI/LOW	247	21	3-HI/LOW
					3-RCIC
MO3-12-018	RWCU LETDOWN OUTBOARD ISOLATION VALVE	HI/LOW	447	13N	3-HI/LOW
					3-RCIC
MO3-12-053	RWCU REJECT LINE ORIFICE BYPASS VALVE	HI/LOW	452	13N	3-HI/LOW
					3-RCIC
MO3-12-056	RWCU DISCHARGE TO MAIN CONDENSER	HI/LOW	444	13N	3-HI/LOW
					3-RCIC
MO3-12-057	RWCU DISCHARGE TO SURGE AND WASTE COLLECTOR TANK	HI/LOW	444	13N	3-HI/LOW
					3-RCIC
MO3-13-015	INBOARD RCIC STEAM SUPPLY ISOLATION VALVE	RCIC	247	21	3-RCIC
					3-RCICTRIP
MO3-13-016	OUTBOARD RCIC STEAM SUPPLY ISOLATION VALVE	RCIC	254	20	3-RCIC
					3-RCICTRIP

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MO3-13-018	RCIC PUMP SUCTION FROM CONDENSATE STORAGE TANK	RCIC	47	02	3-RCIC
MO3-13-020	OUTBOARD RCIC DISCHARGE ISOLATION VALVE	RCIC	47	02	3-RCIC
MO3-13-021	INBOARD RCIC DISCHARGE ISOLATION VALVE	RCIC	254	20	3-RCIC
MO3-13-027	RCIC MINIMUM FLOW RECIRC VALVE	RCIC	47	02	3-RCIC 3-RCICTRIP
MO3-13-030	RCIC TEST LINE ISOLATION VALVE	RCIC	37	12	3-RCIC
MO3-13-039	RCIC PUMP SUCTION FROM SUPPRESSION POOL	RCIC	47	02	3-RCIC
MO3-13-041	RCIC PUMP SUCTION FROM SUPPRESSION POOL	RCIC	47	02	3-RCIC
MO3-13-131	RCIC TURBINE STEAM SUPPLY ISOLATION VALVE	RCIC	47	02	3-RCIC
MO3-13-132	RCIC LUBE OIL COOLING WATER ISOLATION VALVE	RCIC	47	02	
MO3-14-011A	OUTBOARD CORE SPRAY LOOP A DISCHARGE VALVE	CS	257	13S	3-CS-A
MO3-14-011B	OUTBOARD CORE SPRAY LOOP B DISCHARGE VALVE	CS	249	13N	3-CS-B
MO3-14-012A	INBOARD CORE SPRAY LOOP A DISCHARGE VALVE	CS	257	13S	3-CS-A 3-HI/LOW
MO3-14-012B	INBOARD CORE SPRAY LOOP B DISCHARGE VALVE	CS	249	13N	3-CS-B 3-HI/LOW
MO3-14-026A	CORE SPRAY LOOP A TEST ISOLATION VALVE	CS	37	12	3-CS-A
MO3-14-026B	CORE SPRAY LOOP B TEST ISOLATION VALVE	CS	37	12	3-CS-B
MO3-14-05A	CORE SPRAY PUMP A MINIMUM FLOW RECIRC VALVE	CS	45	12	3-CS-A
MO3-14-05B	CORE SPRAY PUMP B MINIMUM FLOW RECIRC VALVE	CS	43	12	3-CS-B
MO3-14-05C	CORE SPRAY PUMP C MINIMUM FLOW RECIRC VALVE	CS	44	12	3-CS-A
MO3-14-05D	CORE SPRAY PUMP D MINIMUM FLOW RECIRC VALVE	CS	42	12	3-CS-B
MO3-14-07A	CORE SPRAY PUMP A SUCTION VALVE	CS	45	12	3-CS-A
MO3-14-07B	CORE SPRAY PUMP B SUCTION VALVE	CS	43	12	3-CS-B
MO3-14-07C	CORE SPRAY PUMP C SUCTION VALVE	CS	44	12	3-CS-A
MO3-14-07D	CORE SPRAY PUMP D SUCTION VALVE	CS	42	12	3-CS-B
MO3-23-014	HPCI STEAM SUPPLY ISOLATION VALVE	HPCI	48	02	3-HPCI

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
MO3-23-015	INBOARD HPCI STEAM SUPPLY ISOLATION VALVE	HPCI	247	21	3-HPCI 3-HPCITRIP
MO3-23-016	OUTBOARD HPCI STEAM SUPPLY ISOLATION VALVE	HPCI	249	13N	3-HPCI 3-HPCITRIP
MO3-23-017	HPCI PUMP SUCTION FROM CONDENSATE STORAGE TANK	HPCI	48	02	3-HPCI
MO3-23-019	INBOARD HPCI PUMP DISCHARGE VALVE	HPCI	254	20	3-HPCI
MO3-23-020	OUTBOARD HPCI PUMP DISCHARGE VALVE	HPCI	48	02	3-HPCI
MO3-23-021	HPCI TEST RETURN LINE ISOLATION VALVE	HPCI	37	12	3-HPCI
MO3-23-024	HPCI TEST LINE RETURN TO CONDENSATE STORAGE TANK	HPCI	37	12	3-HPCI 3-RCIC
MO3-23-025	HPCI MINIMUM FLOW RECIRC VALVE	HPCI	48	02	3-HPCI 3-HPCITRIP
MO3-23-031	HPCI TEST LINE RETURN TO SUPPRESSION POOL	HPCI	37	12	3-HPCI 3-RCIC
MO3-23-057	HPCI PUMP SUCTION FROM SUPPRESSION POOL	HPCI	48	02	3-HPCI
MO3-23-058	HPCI PUMP SUCTION FROM SUPPRESSION POOL	HPCI	48	02	3-HPCI
N2-10-025A	LPCI SWING BUS A	EPS	212	06S	
N2-10-025B	LPCI SWING BUS B	EPS	205	06N	
N3-10-025A	LPCI SWING BUS A	EPS	257	13S	
N3-10-025B	LPCI SWING BUS B	EPS	250	13N	
PI-0236A	ESW PUMP A DISCHARGE PRESSURE INDICATOR	ESW	426	25	
PI-0236B	ESW PUMP B DISCHARGE PRESSURE INDICATOR	ESW	426	25	
PI-2330A	HPSW PUMP DISCHARGE PRESSURE INDICATOR	HPSW	426	25	
PI-2330B	HPSW PUMP DISCHARGE PRESSURE INDICATOR	HPSW	426	25	
PI-2330C	HPSW PUMP DISCHARGE PRESSURE INDICATOR	HPSW	426	25	
PI-2330D	HPSW PUMP DISCHARGE PRESSURE INDICATOR	HPSW	426	25	
PI-2508	UNIT 2 DRYWELL PRESSURE INDICATOR	PM	381	25	
PI-2508X	UNIT 2 DRYWELL PRESSURE INDICATOR	PM	381	25	
PI-3330A	HPSW PUMP DISCHARGE PRESSURE INDICATOR	HPSW	426	25	
PI-3330B	HPSW PUMP DISCHARGE PRESSURE INDICATOR	HPSW	426	25	
PI-3330C	HPSW PUMP DISCHARGE	HPSW	426	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
PI-3330D	PRESSURE INDICATOR HPSW PUMP DISCHARGE	HPSW	426	25	
PI-3508	PRESSURE INDICATOR UNIT 3 DRYWELL PRESSURE	PM	381	25	
PI-3508X	INDICATOR UNIT 3 DRYWELL PRESSURE	PM	381	25	
PI-7465	INDICATOR ESW PUMP DISCHARGE HDR	ESW	426	25	
PI-8458	PRESSURE INDICATOR UNIT 2 DRYWELL PRESSURE	PM-ALT	206	04	2-ALT-PM
PI-8466	INDICATOR ESW PUMP DISCHARGE HDR	ESW	206	04	
PI-9458	PRESSURE INDICATOR UNIT 3 DRYWELL PRESSURE	PM-ALT	258	58	3-ALT-PM
PI-9466	INDICATOR ESW PUMP DISCHARGE HDR	ESW	258	58	
PI2-2-3-60B	PRESSURE INDICATOR UNIT 2 REACTOR VESSEL	PM-ALT	206	04	2-ALT-PM
PI2-23-142	PRESSURE INDICATOR HPCI PUMP DISCHARGE	HPCI	206	04	
PI2-6-90A	PRESSURE INDICATOR REACTOR VESSEL PRESSURE	PM	426	25	2-NORM-PM
PI2-6-90B	INDICATOR REACTOR VESSEL PRESSURE	PM	426	25	2-NORM-PM
PI3-2-3-60B	INDICATOR UNIT 3 REACTOR VESSEL	PM-ALT	258	58	3-ALT-PM
PI3-23-142	PRESSURE INDICATOR HPCI PUMP DISCHARGE	HPCI	258	58	
PI3-6-90A	PRESSURE INDICATOR REACTOR VESSEL PRESSURE	PM	426	25	3-NORM-PM
PI3-6-90B	INDICATOR REACTOR VESSEL PRESSURE	PM	426	25	3-NORM-PM
PISHH2-10-100A	INDICATOR HIGH DRYWELL PRESSURE	RHR	403	06S	
PISHH2-10-100B	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	403	06S	
PISHH2-10-100C	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	403	06S	
PISHH2-10-100D	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	403	06S	
PISHH3-10-100A	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	444	13N	
PISHH3-10-100B	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	257	13S	
PISHH3-10-100C	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	444	13N	
PISHH3-10-100D	INDICATING SWITCH HIGH DRYWELL PRESSURE	RHR	257	13S	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
PIT2-2-3-60B	INDICATING SWITCH UNIT 2 REACTOR VESSEL PRESSURE INDICATOR TRANSMITTER	PM-ALT	403	06S	
PIT3-2-3-60B	UNIT 3 REACTOR VESSEL PRESSURE INDICATOR TRANSMITTER	PM-ALT	257	13S	
PO-00153-01	PRIMARY CONTROL ROOM OUTSIDE AIR SUPPLY FILTER TRAIN INLET	CREV	381	25	0-CREV
PO-00153-02	SECONDARY CONTROL ROOM OUTSIDE AIR SUPPLY FILTER TRAIN INLET	CREV	381	25	0-CREV
PO-00154-01	CONTROL ROOM OUTSIDE AIR FILTER TRAIN "A" INLET	CREV	381	25	0-CREV
PO-00154-02	CONTROL ROOM OUTSIDE AIR FILTER TRAIN "A" INLET	CREV	381	25	0-CREV
PO-00157-01	CONTROL ROOM EMERGENCY VENT SUPPLY FAN 0AV030 INLET	CREV	381	25	0-CREV
PO-00157-02	CONTROL ROOM EMERGENCY FAN 0AV030 OUTLET	CREV	381	25	0-CREV
PO-00158-01	CONTROL ROOM EMERGENCY VENT SUPPLY FAN 0BV030 INLET	CREV	381	25	0-CREV
PO-00158-02	CONTROL ROOM EMERGENCY FAN 0BV030 OUTLET	CREV	381	25	0-CREV
PO-00162	CONTROL ROOM EMERGENCY FAN 0AV030 FLOW CONTROL	CREV	381	25	0-CREV
PO-00163-01	CONTROL ROOM EMERGENCY VENTILATION SUPPLY ISOLATION	CREV	381	25	0-CREV
PO-00182-01	CONTROL ROOM 0AV028 AND 0BV028 PURGE AIR INLET	CREV	381	25	0-CREV
PO-00182-03	CONTROL ROOM RETURN AIR TO ROOF DISCHARGE	CREV	381	25	0-CREV
PO-00484	CONTROL ROOM EMERGENCY FAN 0BV030 FLOW CPONTROL	CREV	381	25	0-CREV
PO-00739	(ABANDONED) UNIT 3 CONSTRUCTION BYPASS DAMPER	CREV	381	25	0-CREV
PO-00740-01	CONTROL ROOM 0AV028 AND 0BV028 PURGE AIR INLET	CREV	381	25	0-CREV
PO-00740-02	CONTROL ROOM 0AV028 AND 0BV028 PURGE AIR INLET	CREV	381	25	0-CREV
POS2-02-071A	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071B	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071C	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071D	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071E	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071F	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071G	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071H	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071J	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071K	MSRV POSITION SWITCH	ADS	302	25	
POS2-02-071L	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071A	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071B	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071C	MSRV POSITION SWITCH	ADS	302	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
POS3-02-071D	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071E	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071F	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071G	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071H	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071J	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071K	MSRV POSITION SWITCH	ADS	302	25	
POS3-02-071L	MSRV POSITION SWITCH	ADS	302	25	
POT2-02-071A	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071B	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071C	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071D	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071E	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071F	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071G	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071H	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071J	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071K	MSRV POSITION TRANSMITTER	ADS	202	18	
POT2-02-071L	MSRV POSITION TRANSMITTER	ADS	202	18	
POT3-02-071A	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071B	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071C	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071D	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071E	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071F	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071G	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071H	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071J	MSRV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071K	MRSV POSITION TRANSMITTER	ADS	247	21	
POT3-02-071L	MSRV POSITION TRANSMITTER	ADS	247	21	
PR-2508	UNIT 2 DRYWELL PRESSURE RECORDER	PM	426	25	2-NORM-PM
PR-3508	UNIT 3 DRYWELL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PR-4805	UNIT 2 DRYWELL PRESSURE RECORDER	PM	426	25	2-NORM-PM
PR-5805	UNIT 3 DRYWELL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PR-8102A	UNIT 2 DRYWELL PRESSURE RECORDER	PM	426	25	2-NORM-PM
PR-8102B	UNIT 2 DRYWELL PRESSURE RECORDER	PM	426	25	2-NORM-PM
PR-9102A	UNIT 3 DRYWELL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PR-9102B	UNIT 3 DRYWELL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PR2-2-3-404A	REACTOR VESSEL PRESSURE RECORDER	PM	426	25	2-NORM-PM
PR2-2-3-404B	REACTOR VESSEL PRESSURE RECORDER	PM	426	25	2-NORM-PM
XR-81446	REACTOR VESSEL PRESSURE RECORDER	PM	426	25	2-NORM-PM

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
PR3-2-3-404A	REACTOR VESSEL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PR3-2-3-404B	REACTOR VESSEL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PR3-6-96	REACTOR VESSEL PRESSURE RECORDER	PM	426	25	3-NORM-PM
PS-2508	PRESSURE SWITCH FOR PR-2508	PM	426	25	
PS-3508	PRESSURE SWITCH FOR PR-3508	PM	426	25	
PS-4541	UNIT 2 HPCI TURBINE LUBE OIL PRESSURE SWITCH	HPCI	6	02	
PS-5541	UNIT 3 HPCI TURBINE LUBE OIL PRESSURE SWITCH	HPCI	48	02	
PS-80487	PRESSURE SWITCH - REACTOR PRESSURE OPEN PERMISSIVE FOR MO2-10-017	HI/LOW	204	06N	
PS-90487	PRESSURE SWITCH - REACTOR PRESSURE OPEN PERMISSIVE FOR MO3-10-017	HI/LOW	250	13N	
PS2-13-67-1	RCIC PUMP SUCTION LOW PRESSURE SWITCH	RCIC	8	02	
PS2-13-72A	RCIC TURBINE EXHAUST HIGH PRESSURE SWITCH	RCIC	8	02	
PS2-13-72B	RCIC TURBINE EXHAUST HIGH PRESSURE SWITCH	RCIC	8	02	
PS2-13-87A	RCIC STEAM LINE LOW PRESSURE SWITCH	RCIC	8	02	
PS2-13-87B	RCIC STEAM LINE LOW PRESSURE SWITCH	RCIC	8	02	
PS2-13-87C	RCIC STEAM LINE LOW PRESSURE SWITCH	RCIC	8	02	
PS2-13-87D	RCIC STEAM LINE LOW PRESSURE SWITCH	RCIC	8	02	
PS2-23-68A	HPCI STEAM SUPPLY LOW PRESSURE SWITCH	HPCI	8	02	
PS2-23-68B	HPCI STEAM SUPPLY LOW PRESSURE SWITCH	HPCI	8	02	
PS2-23-68C	HPCI STEAM SUPPLY LOW PRESSURE SWITCH	HPCI	8	02	
PS2-23-68D	HPCI STEAM SUPPLY LOW PRESSURE SWITCH	HPCI	8	02	
PS2-23-84-1	HPCI PUMP LOW SUCTION PRESSURE ALARM SWITCH	HPCI	8	02	
PS2-23-97A	HPCI TURBINE EXHAUST HIGH PRESSURE ALARM SWITCH	HPCI	8	02	
PS2-23-97B	HPCI TURBINE EXHAUST HIGH PRESSURE ALARM SWITCH	HPCI	8	02	
PS3-13-67-1	RCIC PUMP SUCTION LOW PRESSURE SWITCH	RCIC	46	02	
PS3-13-72A	RCIC TURBINE EXHAUST HIGH	RCIC	46	02	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	PRESSURE SWITCH				
PS3-13-72B	RCIC TURBINE EXHAUST HIGH	RCIC	46	02	
	PRESSURE SWITCH				
PS3-13-87A	RCIC STEAM LINE LOW	RCIC	46	02	
	PRESSURE SWITCH				
PS3-13-87B	RCIC STEAM LINE LOW	RCIC	46	02	
	PRESSURE SWITCH				
PS3-13-87C	RCIC STEAM LINE LOW	RCIC	46	02	
	PRESSURE SWITCH				
PS3-13-87D	RCIC STEAM LINE LOW	RCIC	46	02	
	PRESSURE SWITCH				
PS3-23-68A	HPCI STEAM SUPPLY LOW	HPCI	46	02	
	PRESSURE SWITCH				
PS3-23-68B	HPCI STEAM SUPPLY LOW	HPCI	46	02	
	PRESSURE SWITCH				
PS3-23-68C	HPCI STEAM SUPPLY LOW	HPCI	46	02	
	PRESSURE SWITCH				
PS3-23-68D	HPCI STEAM SUPPLY LOW	HPCI	46	02	
	PRESSURE SWITCH				
PS3-23-84-1	HPCI PUMP LOW SUCTION	HPCI	46	02	
	PRESSURE ALARM SWITCH				
PS3-23-97A	HPCI TURBINE EXHAUST HIGH	HPCI	46	02	
	PRESSURE ALARM SWITCH				
PS3-23-97B	HPCI TURBINE EXHAUST HIGH	HPCI	46	02	
	PRESSURE ALARM SWITCH				
PS3-6-120	PRESSURE RECORDER PR3-6-96	PM	302	25	
	SINGLE ALARM UNIT				
PT-0236A	ESW PUMP A DISCHARGE	ESW	801	48	
	PRESSURE TRANSMITTER				
PT-0236B	ESW PUMP B DISCHARGE	ESW	803	47	
	PRESSURE TRANSMITTER				
PT-2330A	HPSW PUMP DISCHARGE	HPSW	801	48	
	PRESSURE TRANSMITTER				
PT-2330B	HPSW PUMP DISCHARGE	HPSW	801	48	
	PRESSURE TRANSMITTER				
PT-2330C	HPSW PUMP DISCHARGE	HPSW	801	48	
	PRESSURE TRANSMITTER				
PT-2330D	HPSW PUMP DISCHARGE	HPSW	801	48	
	PRESSURE TRANSMITTER				
PT-2508A	UNIT 2 DRYWELL PRESSURE	PM	508	06S	
	TRANSMITTER				
PT-2508B	UNIT 2 DRYWELL PRESSURE	PM	508	06S	
	TRANSMITTER				
PT-3330A	HPSW PUMP DISCHARGE	HPSW	803	47	
	PRESSURE TRANSMITTER				
PT-3330B	HPSW PUMP DISCHARGE	HPSW	803	47	
	PRESSURE TRANSMITTER				
PT-3330C	HPSW PUMP DISCHARGE	HPSW	803	47	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	PRESSURE TRANSMITTER				
PT-3330D	HPSW PUMP DISCHARGE	HPSW	803	47	
	PRESSURE TRANSMITTER				
PT-3508A	UNIT 3 DRYWELL PRESSURE	PM	523	13N	
	TRANSMITTER				
PT-3508B	UNIT 3 DRYWELL PRESSURE	PM	523	13N	
	TRANSMITTER				
PT-4805	UNIT 2 DRYWELL PRESSURE	PM	108	05	
	TRANSMITTER				
PT-5805	UNIT 3 DRYWELL PRESSURE	PM	161	12	
	TRANSMITTER				
PT-7465	ESW PUMP DISCHARGE HDR	ESW	105	02	
	PRESSURE TRANSMITTER				
PT-7466	ESW PUMP DISCHARGE HDR	ESW	161	12	
	PRESSURE TRANSMITTER				
PT-8102A	UNIT 2 DRYWELL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT-8102B	UNIT 2 DRYWELL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT-8102C	UNIT 2 DRYWELL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT-8102D	UNIT 2 DRYWELL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT-8142A	UNIT 2 MSRV NITROGEN SUPPLY	ADS	205	06N	
	PRESSURE TRANSMITTER				
PT-8142B	UNIT 2 MSRV NITROGEN SUPPLY	ADS	212	06S	
	PRESSURE TRANSMITTER				
PT-8458	UNIT 2 DRYWELL PRESSURE	PM-ALT	403	06S	
	TRANSMITTER				
PT-9102A	UNIT 3 DRYWELL PRESSURE	PM	444	13N	
	TRANSMITTER				
PT-9102B	UNIT 3 DRYWELL PRESSURE	PM	257	13S	
	TRANSMITTER				
PT-9102C	UNIT 3 DRYWELL PRESSURE	PM	444	13N	
	TRANSMITTER				
PT-9102D	UNIT 3 DRYWELL PRESSURE	PM	257	13S	
	TRANSMITTER				
PT-9142A	UNIT 3 MSRV NITROGEN SUPPLY	ADS	250	13N	
	PRESSURE TRANSMITTER				
PT-9142B	UNIT 3 MSRV NITROGEN SUPPLY	ADS	250	13N	
	PRESSURE TRANSMITTER				
PT-9458	UNIT 3 DRYWELL PRESSURE	PM-ALT	257	13S	
	TRANSMITTER				
PT2-10-100A	DRYWELL PRESSURE TRANSMITTER	RHR	403	06S	
PT2-10-100B	DRYWELL PRESSURE TRANSMITTER	RHR	403	06S	
PT2-10-100C	DRYWELL PRESSURE TRANSMITTER	RHR	403	06S	
PT2-10-100D	DRYWELL PRESSURE TRANSMITTER	RHR	403	06S	
PT2-2-3-404A	REACTOR VESSEL PRESSURE	PM	403	06S	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	TRANSMITTER				
PT2-2-3-404B	REACTOR VESSEL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT2-2-3-404C	REACTOR VESSEL PRESSURE	PM	205	06N	
	TRANSMITTER				
PT2-2-3-404D	REACTOR VESSEL PRESSURE	PM	212	06S	
	TRANSMITTER				
PT2-23-142	HPCI PUMP DISCHARGE	HPCI	8	02	
	PRESSURE TRANSMITTER				
PT2-6-105	REACTOR VESSEL PRESSURE	PM	205	06N	
	TRANSMITTER				
PT2-6-53A	REACTOR VESSEL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT2-6-53B	REACTOR VESSEL PRESSURE	PM	403	06S	
	TRANSMITTER				
PT3-10-100A	DRYWELL PRESSURE TRANSMITTER	RHR	444	13N	
PT3-10-100B	DRYWELL PRESSURE TRANSMITTER	RHR	257	13S	
PT3-10-100C	DRYWELL PRESSURE TRANSMITTER	RHR	444	13N	
PT3-10-100D	DRYWELL PRESSURE TRANSMITTER	RHR	257	13S	
PT3-2-3-404A	REACTOR VESSEL PRESSURE	PM	444	13N	
	TRANSMITTER				
PT3-2-3-404B	REACTOR VESSEL PRESSURE	PM	257	13S	
	TRANSMITTER				
PT3-2-3-404C	REACTOR VESSEL PRESSURE	PM	250	13N	
	TRANSMITTER				
PT3-2-3-404D	REACTOR VESSEL PRESSURE	PM	257	13S	
	TRANSMITTER				
PT3-23-142	HPCI PUMP DISCHARGE	HPCI	46	02	
	PRESSURE TRANSMITTER				
PT3-6-105	REACTOR VESSEL PRESSURE	PM	257	13S	
	TRANSMITTER				
PT3-6-53A	REACTOR VESSEL PRESSURE	PM	444	13N	
	TRANSMITTER				
PT3-6-53B	REACTOR VESSEL PRESSURE	PM	257	13S	
	TRANSMITTER				
RV2-02-071A	MAIN STEAM LINE A	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071B	MAIN STEAM LINE A	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071C	MAIN STEAM LINE B	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071D	MAIN STEAM LINE B	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071E	MAIN STEAM LINE B	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071F	MAIN STEAM LINE B	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071G	MAIN STEAM LINE C	ADS	202	18	2-ADS

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	SAFETY/RELIEF VALVE				
RV2-02-071H	MAIN STEAM LINE C	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071J	MAIN STEAM LINE C	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071K	MAIN STEAM LINE D	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV2-02-071L	MAIN STEAM LINE D	ADS	202	18	2-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071A	MAIN STEAM LINE A	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071B	MAIN STEAM LINE A	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071C	MAIN STEAM LINE B	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071D	MAIN STEAM LINE B	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071E	MAIN STEAM LINE B	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071F	MAIN STEAM LINE B	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071G	MAIN STEAM LINE C	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071H	MAIN STEAM LINE C	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071J	MAIN STEAM LINE C	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071K	MAIN STEAM LINE D	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
RV3-02-071L	MAIN STEAM LINE D	ADS	247	21	3-ADS
	SAFETY/RELIEF VALVE				
SOV-0241A	SOLENOID FOR DIESEL GENERATOR A COOLING WATER ISO VALVE	ESW	816	46	
SOV-0241B	SOLENOID FOR DIESEL GENERATOR B COOLING WATER ISO VALVE	ESW	817	45	
SOV-0241C	SOLENOID FOR DIESEL GENERATOR C COOLING WATER ISO VALVE	ESW	818	44	
SOV-0241D	SOLENOID FOR DIESEL GENERATOR D COOLING WATER ISO VALVE	ESW	819	43	
SPE-4505	UNIT 2 HPCI TURBINE SPEED TRANSMITTER	HPCI	6	02	
SPE-5505	UNIT 3 HPCI TURBINE SPEED TRANSMITTER	HPCI	48	02	
SPI-4505	UNIT 2 HPCI TURBINE SPEED	HPCI	426	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	INDICATOR				
SPI-4505X	UNIT 2 HPCI TURBINE SPEED	HPCI	206	04	
	INDICATOR				
SPI-4525	UNIT 2 RCIC TURBINE	RCIC	426	25	
	TACHOMETER				
SPI-5505	UNIT 3 HPCI TURBINE SPEED	HPCI	426	25	
	INDICATOR				
SPI-5505X	UNIT 3 HPCI TURBINE SPEED	HPCI	258	58	
	INDICATOR				
SPI-5525	UNIT 3 RCIC TURBINE	RCIC	426	25	
	TACHOMETER				
SQRT2-10-134A	HPSW FLOW SQUARE ROOT	HPSW	302	25	
	CONVERTER				
SQRT2-10-134B	HPSW FLOW SQUARE ROOT	HPSW	302	25	
	CONVERTER				
SQRT2-10-140A	RHR FLOW SQUARE ROOT	RHR	302	25	
	CONVERTER				
SQRT2-10-140B	RHR FLOW SQUARE ROOT	RHR	302	25	
	CONVERTER				
SQRT2-10-177	HPSW FLOW SQUARE ROOT	HPSW	206	04	
	CONVERTER				
SQRT2-10-178	RHR FLOW SQUARE ROOT	RHR	206	04	
	CONVERTER				
SQRT2-14-83A	CORE SPRAY LOOP A FLOW	CS	302	25	
	SQUARE ROOT CONVERTER				
SQRT2-14-83B	CORE SPRAY LOOP B FLOW	CS	302	25	
	SQUARE ROOT CONVERTER				
SQRT2-23-141	HPCI FLOW INDICATOR SQUARE	HPCI	206	04	
	ROOT CONVERTER				
SQRT3-10-134A	HPSW FLOW SQUARE ROOT	HPSW	302	25	
	CONVERTER				
SQRT3-10-134B	HPSW FLOW SQUARE ROOT	HPSW	302	25	
	CONVERTER				
SQRT3-10-140A	RHR FLOW SQUARE ROOT	RHR	302	25	
	CONVERTER				
SQRT3-10-140B	RHR FLOW SQUARE ROOT	RHR	302	25	
	CONVERTER				
SQRT3-10-177	HPSW FLOW SQUARE ROOT	HPSW	258	58	
	CONVERTER				
SQRT3-10-178	RHR FLOW SQUARE ROOT	RHR	258	58	
	CONVERTER				
SQRT3-14-83A	CORE SPRAY LOOP A FLOW	CS	302	25	
	SQUARE ROOT CONVERTER				
SQRT3-14-83B	CORE SPRAY LOOP B FLOW	CS	302	25	
	SQUARE ROOT CONVERTER				
SQRT3-23-141	HPCI FLOW INDICATOR SRUARE	HPCI	258	58	
	ROOT CONVERTER				
SV-00153	SOLENOID VALVE (FILTER TRAIN	CREV	381	25	
	INLET DAMPERS PO-00153-01				

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	AND PO-00153-02)				
SV-00154-01	SOLENOID VALVE (FILTER TRAIN "A" INLET DAMPER PO-00154-01)	CREV	381	25	
SV-00157	SOLENOID VALVE (0AV030 ISOLATION DAMPERS PO-00157-01 AND PO-00157-02)	CREV	381	25	
SV-00158	SOLENOID VALVE (0BV030 ISOLATION DAMPERS PO-00158-01 AND PO-00158-02)	CREV	381	25	
SV-00182	SOLENOID VALVE (PURGE AIR ISOLATION DAMPERS PO-00182-01 AND PO-00182-03)	CREV	381	25	
SV-00540-1	SOLENOID VALVE (ISOLATION DAMPER 0AV91)	EPS	816	46	
SV-00540-2	SOLENOID VALVE (ISOLATION DAMPER 0BV91)	EPS	817	45	
SV-00540-3	SOLENOID VALVE (ISOLATION DAMPER 0CV91)	EPS	818	44	
SV-00540-4	SOLENOID VALVE (ISOLATION DAMPER 0DV91)	EPS	819	43	
SV-8130A	UNIT 2 MSRV BACK-UP NITROGEN SUPPLY VALVE	ADS	205	06N	
SV-8130B	UNIT 2 MSRV BACK-UP NITROGEN SUPPLY VALVE	ADS	203	06S	
SV-9130A	UNIT 3 MSRV BACK-UP NITROGEN SUPPLY VALVE	ADS	250	13N	
SV-9130B	UNIT 3 MSRV BACK-UP NITROGEN SUPPLY VALVE	ADS	248	13S	
SV2-02-17	SOLENOID VALVE FOR AO2-02-17	HI/LOW	202	18	
SV2-02-18	SOLENOID VALVE FOR AO2-02-18	HI/LOW	202	18	
SV2-02-316	SOLENOID VALVE FOR AO2-02-316	HI/LOW	202	18	
SV2-02-317	SOLENOID VALVE FOR AO2-02-317	HI/LOW	403	06S	
SV2-02-39	SOLENOID VALVE FOR AO2-02-39	HI/LOW	202	18	
SV2-02-40	SOLENOID VALVE FOR AO2-02-40	HI/LOW	403	06S	
SV2-23-054	HPCI CONDENSER DRAIN POT DRAIN VALVE	HPCI	6	02	
SV3-02-17	SOLENOID VALVE FOR AO3-02-17	HI/LOW	247	21	
SV3-02-18	SOLENOID VALVE FOR AO3-02-18	HI/LOW	247	21	
SV3-02-316	SOLENOID VALVE FOR AO3-02-316	HI/LOW	247	21	
SV3-02-317	SOLENOID VALVE FOR AO3-02-317	HI/LOW	444	13N	
SV3-02-39	SOLENOID VALVE FOR AO3-02-39	HI/LOW	247	21	
SV3-02-40	SOLENOID VALVE FOR AO3-02-40	HI/LOW	444	13N	
SV3-23-054	HPCI CONDENSER DRAIN POT DRAIN VALVE	HPCI	48	02	
TE-2-2-71A1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71A2	TORUS TEMPERATURE ELEMENT	PM	1	05	

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COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TE-2-2-71B1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71B2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71C1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71C2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71D1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71D2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71E1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71E2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71F1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71F2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71G1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71G2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71H1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71H2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71J1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71J2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71K1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71K2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71L1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71L2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71M1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71M2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71N1	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2-2-71N2	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2442A	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2442B	TORUS TEMPERATURE ELEMENT	PM	1	05	
TE-2501-26	DRYWELL TEMPERATURE ELEMENT	PM	202	18	
TE-2501-27	DRYWELL TEMPERATURE ELEMENT	PM	202	18	
TE-2501-36A	DRYWELL TEMPERATURE ELEMENT	PM	202	18	
TE-2501-36B	DRYWELL TEMPERATURE ELEMENT	PM	202	18	
TE-3-2-71A1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71A2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71B1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71B2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71C1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71C2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71D1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71D2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71E1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71E2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71F1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71F2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71G1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71G2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71H1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71H2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71J1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71J2	TORUS TEMPERATURE ELEMENT	PM	37	12	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TE-3-2-71K1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71K2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71L1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71L2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71M1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71M2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71N1	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3-2-71N2	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3442A	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3442B	TORUS TEMPERATURE ELEMENT	PM	37	12	
TE-3501-26	DRYWELL TEMPERATURE ELEMENT	PM	247	21	
TE-3501-27	DRYWELL TEMPERATURE ELEMENT	PM	247	21	
TE-3501-36A	DRYWELL TEMPERATURE ELEMENT	PM	247	21	
TE-3501-36B	DRYWELL TEMPERATURE ELEMENT	PM	247	21	
TE-4936A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	7	02	
TE-4936B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	7	02	
TE-4936C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	7	02	
TE-4936D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	7	02	
TE-4937A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4937B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4937C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4937D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4938A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4938B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4938C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4938D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4939A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4939B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4939C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4939D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	1	05	
TE-4941A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	6	02	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TE-4941B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	6	02	
TE-4941C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	6	02	
TE-4941D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	6	02	
TE-4942A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4942B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4942C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4942D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4943A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4943B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4943C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4943D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4944A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4944B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	204	06N	
TE-4944C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	1	05	
TE-4944D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	204	06N	
TE-5936A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	47	02	
TE-5936B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	47	02	
TE-5936C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	47	02	
TE-5936D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	47	02	
TE-5937A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5937B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5937C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5937D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5938A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TE-5938B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5938C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5938D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5939A	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5939B	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5939C	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5939D	RCIC STEAM LEAK DETECTION TEMPERATURE ELEMENT	RCIC	37	12	
TE-5941A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	47	02	
TE-5941B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	48	02	
TE-5941C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	48	02	
TE-5941D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	48	02	
TE-5942A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5942B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5942C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5942D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5943A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5943B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5943C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5943D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	37	12	
TE-5944A	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	249	13N	
TE-5944B	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	249	13N	
TE-5944C	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	249	13N	
TE-5944D	HPCI STEAM LEAK DETECTION TEMPERATURE ELEMENT	HPCI	249	13N	
TE-8455	UNIT 2 DRYWELL TEMPERATURE ELEMENT	PM-ALT	202	18	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TE-8457	UNIT 2 SUPPRESSION POOL TEMPERATURE ELEMENT	PM-ALT	1	05	
TE-9455	UNIT 3 DRYWELL TEMPERATURE ELEMENT	PM-ALT	247	21	
TE-9457	UNIT 3 SUPPRESSION POOL TEMPERATURE ELEMENT	PM-ALT	37	12	
TE2-02-113A	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113B	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113C	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113D	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113E	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113F	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113G	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113H	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113J	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113K	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-02-113L	MRSV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE2-2-320	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	202	18	
TE3-02-113A	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113B	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113C	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113D	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113E	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113F	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113G	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113H	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113J	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TE3-02-113K	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-02-113L	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TE3-2-320	MSRV DISCHARGE TEMPERATURE ELEMENT	ADS	247	21	
TI-2445	TORUS TEMPERATURE INDICATOR	PM	426	25	2-NORM-PM
TI-2501-26	DRYWELL TEMPERATURE INDICATOR	PM	426	25	2-NORM-PM
TI-2501-27	DRYWELL TEMPERATURE INDICATOR	PM	426	25	2-NORM-PM
TI-2501-36A	DRYWELL TEMPERATURE INDICATOR	PM	426	25	2-NORM-PM
TI-3445	TORUS TEMPERATURE INDICATOR	PM	426	25	3-NORM-PM
TI-3501-26	DRYWELL TEMPERATURE INDICATOR	PM	426	25	3-NORM-PM
TI-3501-27	DRYWELL TEMPERATURE INDICATOR	PM	426	25	3-NORM-PM
TI-3501-36A	DRYWELL TEMPERATURE INDICATOR	PM	426	25	3-NORM-PM
TI-8455	UNIT 2 DRYWELL TEMPERATURE INDICATOR	PM-ALT	206	04	2-ALT-PM
TI-8457	UNIT 2 SUPPRESSION POOL TEMPERATURE INDICATOR	PM-ALT	206	04	2-ALT-PM
TI-9455	UNIT 3 DRYWELL TEMPERATURE INDICATOR	PM-ALT	258	58	3-ALT-PM
TI-9457	UNIT 3 SUPPRESSION POOL TEMPERATURE INDICATOR	PM-ALT	258	58	3-ALT-PM
TI2-2-320	MSRV DISCHARGE TEMPERATURE INDICATOR	ADS	206	04	2-ALT-PM
TI3-2-320	MRSV DISCHARGE TEMPERATURE INDICATOR	ADS	258	58	3-ALT-PM
TIS-2-2-71A	TORUS TEMPERATURE INDICATING SWITCH	PM	426	25	2-NORM-PM
TIS-2-2-71B	TORUS TEMPERATURE INDICATING SWITCH	PM	426	25	2-NORM-PM
TIS-3-2-71A	TORUS TEMPERATURE INDICATING SWITCH	PM	426	25	3-NORM-PM
TIS-3-2-71B	TORUS TEMPERATURE INDICATING SWITCH	PM	426	25	3-NORM-PM
TIS-80547A	STEAM LEAK A TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TIS-80547B	STEAM LEAK B TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TIS-80547C	STEAM LEAK C TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TIS-80547D	STEAM LEAK D TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
TIS-90547A	STEAM LEAK A TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TIS-90547B	STEAM LEAK B TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TIS-90547C	STEAM LEAK C TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TIS-90547D	STEAM LEAK D TEMPERATURE MONITOR SWITCH	HPCI/RCIC	426	25	
TR-4805	UNIT 2 DRYWELL TEMPERATURE RECORDER	PM	426	25	2-NORM-PM
TR-5805	UNIT 3 DRYWELL TEMPERATURE RECORDER	PM	426	25	3-NORM-PM
TR2-2-103	MAIN STEAM SAFETY/RELIEF VALVES TAIL PIPE TEMPERATURE RECORDER	ADS	426	25	
TR3-2-103	MAIN STEAM SAFETY/RELIEF VALVES TAIL PIPE TEMPERATURE RECORDER	ADS	426	25	
TRS2-10-131	TORUS TEMPERATURE RECORDER-SWITCH	PM	426	25	2-NORM-PM
TRS3-10-131	TORUS TEMPERATURE RECORDER-SWITCH	PM	426	25	3-NORM-PM
TS-70773A	TEMPERATURE SWITCH (DG SUPPLY FAN 0AV91)	EPS	816	46	
TS-70773B	TEMPERATURE SWITCH (DG SUPPLY FAN 0BV91)	EPS	817	45	
TS-70773C	TEMPERATURE SWITCH (DG SUPPLY FAN 0CV91)	EPS	818	44	
TS-70773D	TEMPERATURE SWITCH (DG SUPPLY FAN 0DV91)	EPS	819	43	
TS-0565A	DIESEL GENERATOR A DAY TANK TEMPERATURE SWITCH	EPS	820	46	
TS-0565B	DIESEL GENERATOR B DAY TANK TEMPERATURE SWITCH	EPS	821	45	
TS-0565C	DIESEL GENERATOR C DAY TANK TEMPERATURE SWITCH	EPS	822	44	
TS-0565D	DIESEL GENERATOR D DAY TANK TEMPERATURE SWITCH	EPS	823	43	
TS-2501	DRYWELL TEMPERATURE SWITCH	PM	302	25	
TT-2442B	TORUS TEMPERATURE TRANSMITTER	PM	103	02	
TT-2501	DRYWELL TEMPERATURE TRANSMITTER	PM	302	25	
TT-3442B	TORUS TEMPERATURE TRANSMITTER	PM	157	02	
TT-3501	DRYWELL TEMPERATURE TRANSMITTER	PM	302	25	
TT-8455	UNIT 2 DRYWELL TEMPERATURE	PM-ALT	206	04	

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<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	TRANSMITTER				
TT-8457	UNIT 2 SUPPRESSION POOL	PM-ALT	206	04	
	TEMPERATURE TRANSMITTER				
TT-9455	UNIT 3 DRYWELL TEMPERATURE	PM-ALT	258	58	
	TRANSMITTER				
TT-9457	UNIT 3 SUPPRESSION POOL	PM-ALT	258	58	
	TEMPERATURE TRANSMITTER				
TT2-2-320	MSRV DISCHARGE TEMPERATURE	ADS	206	04	
	TRANSMITTER				
TT3-2-320	MSRV DISCHARGE TEMPERATURE	ADS	258	58	
	TRANSMITTER				
XS-8150A	UNIT 2 MSRV NITROGEN SUPPLY	ADS	302	25	
	VALVE CONTROL DEVICE				
XS-8150B	UNIT 2 MSRV NITROGEN SUPPLY	ADS	302	25	
	VALVE CONTROL DEVICE				
XS-9150A	UNIT 3 MSRV NITROGEN SUPPLY	ADS	302	25	
	VALVE CONTROL DEVICE				
XS-9150B	UNIT 3 MSRV NITROGEN SUPPLY	ADS	302	25	
	VALVE CONTROL DEVICE				
XS2-2-3-115A	REACTOR HIGH WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-115B	REACTOR HIGH WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-115C	REACTOR HIGH WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-115D	REACTOR HIGH WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-116A	REACTOR LOW WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-116B	REACTOR LOW WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-116C	REACTOR LOW WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-116D	REACTOR LOW WATER LEVEL	PM	302	25	
	SWITCH				
XS2-2-3-121A	REACTOR LOW PRESSURE OUTPUT	PM	302	25	
	SWITCH				
XS2-2-3-121B	REACTOR LOW PRESSURE OUTPUT	PM	302	25	
	SWITCH				
XS2-2-3-121C	REACTOR LOW PRESSURE OUTPUT	PM	302	25	
	SWITCH				
XS2-2-3-121D	REACTOR LOW PRESSURE OUTPUT	PM	302	25	
	SWITCH				
XS3-2-3-115A	REACTOR HIGH WATER LEVEL	PM	302	25	
	SWITCH				
XS3-2-3-115B	REACTOR HIGH WATER LEVEL	PM	301	25	
	SWITCH				
XS3-2-3-115C	REACTOR HIGH WATER LEVEL	PM	302	25	

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Table A-3
COMPONENTS REQUIRED FOR SAFE SHUTDOWN

<u>Equipment Number</u>	<u>Component Description</u>	<u>Plant Sys.</u>	<u>Room</u>	<u>Fire Area</u>	<u>FSSD Sys. Desig.</u>
	SWITCH				
XS3-2-3-115D	REACTOR HIGH WATER LEVEL	PM	301	25	
	SWITCH				
XS3-2-3-116A	REACTOR LOW WATER LEVEL	PM	302	25	
	SWITCH				
XS3-2-3-116B	REACTOR LOW WATER LEVEL	PM	301	25	
	SWITCH				
XS3-2-3-116C	REACTOR LOW WATER LEVEL	PM	302	25	
	SWITCH				
XS3-2-3-116D	REACTOR LOW WATER LEVEL	PM	301	25	
	SWITCH				
XS3-2-3-121A	REACTOR LOW PRESSURE OUTPUT	PM	302	25	
	SWITCH				
XS3-2-3-121B	REACTOR LOW PRESSURE OUTPUT	PM	301	25	
	SWITCH				
XS3-2-3-121C	REACTOR LOW PRESSURE OUTPUT	PM	302	25	
	SWITCH				
XS3-2-3-121D	REACTOR LOW PRESSURE OUTPUT	PM	301	25	
	SWITCH				

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Table A-4

Operations That May Be Required To Be Performed
Outside The Control Room

<u>EQUIP ID</u>	<u>ACTION REQD</u>
00S306	Operate switch 00S306 to restore power for SU-25 breaker auxiliaries
0AV030	REPAIR - re-energize fan from MCC 30B060 using temporary cables
20A015	Pull degraded voltage relay fuse, FU-35 Trip breaker 2-152-1501 at switchgear Trip breaker 2-152-1503 at switchgear Trip breaker 2-152-1508 at switchgear
20A016	Pull degraded voltage relay fuse, FU-66 Trip breaker 2-152-1606 at switchgear
20A017	Pull degraded voltage relay fuse, FU-97 Trip breaker 2-152-1704 at switchgear
20A018	Pull degraded voltage relay fuse, FU-128 Trip breaker 2-152-1807 at switchgear
20B324	Operate switch 2-43-3614/TI to restore power for M02-23-015
20C032	Install plug-in test switch 2-14A-J2A at 20C032 to satisfy CS permissive for M02-10-025A Install U2 plug-in test switch 2-10A-J1A at 20C032 to disable 3BP35 pump trip
20S700	Operate switch 20S700 to restore power for Battery Charger 2AD003
20S701	Operate switch 20S701 to restore power to 20Y033
20S703	Operate switch 20S703 to restore power to 20Y035

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Table A-4 (Cont'd)

Operations That May Be Required To Be Performed Outside The
Control Room

<u>EQUIP ID</u>	<u>ACTION REQD</u>
2BS456	Operate switch 2BS456 to restore power for Battery Charger 2BD003
	20D307 Move ACS light switch to ``ON`` position for alternate shutdown
2DS456	Operate switch 2DS456 to restore power for Battery Charger 2DD003
30A015	Pull degraded voltage relay fuse, FU-30 Trip breaker 3-152-1503 at switchgear
30A016	Pull degraded voltage relay fuse, FU-60 Trip breaker 3-152-1606 at switchgear
30A017	Pull degraded voltage relay fuse, FU-93 Trip breaker 3-152-1704 at switchgear
30A018	Pull degraded voltage relay fuse, FU-123 Trip breaker 3-152-1807 at switchgear
30B324	Operate switch 3-43-3614/TI to restore power to MO3-23-015
30C032	Install U3 plug-in test switch 3-10A-J1A at 30C032 to disable 2DP35 pump trip
30C033	Insert U3 Plug-in test switch 3-10A-J1B at to disable 2AP35 pump trip
30S546	Operate switch to restore power to 30C144
30S700	Operate switch to restore power to Battery Charger 3DD003
30S701	Operate switch 30S701 to restore power for 30Y033

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Table A-4 (Cont'd)

Operations That May Be Required To Be Performed Outside The
Control Room

<u>EQUIP ID</u>	<u>ACTION REQD</u>
30S702	Operate switch 30S702 to restore power for 30Y034
30D307	Move ACS light switch to ``ON'' position for alternative shutdown
3AS456	Operate switch 3AS456 to restore power to Battery Charger 3AD003
3CS456	Operate switch 3CS456 to restore power for Battery Charger 3CD003
CV-3-10-3677D	Open valve CV-3-10-3677D at MCC 30B082
HV-0-16-11197	Unlock/Open HV-0-16-11197
HV-2-16-23333	Unlock/Open HV-2-16-23333
HV-2-32-516A (See Note 2)	Manually open valve 516A
HV-3-16-33310	Unlock/Open HV-3-16-33310
HV-3-16-33333	Unlock/Open HV-3-16-33333
HV-3-27B-36034	Manually open valve HV-3-27B-36034
HV-3-32-516B (See Note 2)	Manually open valve 516B
MO-2486 See Note 1)	Manually open valve MO-2486
MO-2486 See Note 1)	Open valve MO-2486 at MCC 00B054
MO-3486 See Note 1)	Manually open valve MO-3486
MO-3486 See Note 1)	Open valve MO-3486 at MCC 00B054
MO2-10-025A	Open valve MO2-10-025A at swingbus N2-10-025A
MO2-10-025B	Open valve MO2-10-025B at swingbus N2-10-025B
MO2-10-034A	Manually open valve MO2-10-034A
MO2-10-034B	Manually open valve MO2-10-034B

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Table A-4 (Cont'd)

Operations That May Be Required To Be Performed Outside The
Control Room

<u>EQUIP ID</u>	<u>ACTION REQD</u>
MO2-10-039A	Manually open valve MO2-10-039A
MO2-10-039B	Manually open valve MO2-10-039B
MO2-10-089D	Close valve MO2-10-089D at MCC 20B039
MO2-10-089D	Manually open valve MO2-10-089D
MO2-10-154B	Open valve MO2-10-154B at MCC 20B039
MO3-10-025A	Open valve MO3-10-025A at swingbus N3-10-025A
MO3-10-025B	Open valve MO3-10-025B at swingbus N3-10-025B
MO3-10-034A	Manually open valve MO3-10-034A
MO3-10-034B	Manually open valve MO3-10-034B
MO3-10-039A	Manually open valve MO3-10-039A
MO3-10-039B	Manually open valve MO3-10-039B
MO3-10-089A	Manually open valve MO3-10-089A
MO3-10-089B	Close valve MO3-10-089B at MCC 30B080
MO3-10-089D	Manually close valve MO3-10-089D
MO3-10-154B	Open valve MO3-10-154B at MCC 30B039
MO3-14-012A	Manually open valve MO3-14-012A
SV-0-36B-00157	REPAIR - loosen tubing fittings at SV- 00157 to release air to OPEN associated dampers for CREV fan 'A' operation
SV-2-16A-8130A	REPAIR - Manually align back-up nitrogen system at SV-8130A
SV-2-16A-8130B	REPAIR - Manually align back-up nitrogen system at SV-8130B

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Table A-4 (Cont'd)

Operations That May Be Required To Be Performed Outside The
Control Room

<u>EQUIP ID</u>	<u>ACTION REQD</u>
SV-3-16A-9130A	REPAIR - Manually align back-up nitrogen system at SV-9130A
SV-3-16A-9130B	REPAIR - Manually align back-up nitrogen system at SV-9130B
Unit 2 HPCI ACS	Control reactor and decay heat removal at U2 HPCI ACS, as required for Alternative Shutdown
Unit 2/3 4kV Swgr Area ACS	Control 4kV equipment from U2/3 4kV Swgr Area ACS, as required for Alternative Shutdown
Unit 2/3 4kV Swgr Area	Setup control of 4kV equipment from ACS U2/3 4kV Swgr Area ACS, as required for Alternative Shutdown
Unit 3 HPCI ACS	Control reactor and decay heat removal at U3 HPCI ACS, as required for Alternative Shutdown

Notes for Table A-4

Note 1

In a letter dated January 30, 2009, the NRC granted an exemption from the requirements of Appendix R, Section III.G for the use of operator manual actions in lieu of the requirements specified in section III.G.2. Subsequent to the receipt of the granting of the exemption request, Plant configuration changes have resulted in several manual actions no longer being necessary. Specifically, valves that were susceptible to spurious operation required manual actions to reposition them after the fire. Plant configuration changes removed control and motive power from the valves so they cannot spuriously operate. Therefore, the Operator Manual Action is no longer credited and no longer in use.

Note 2

HV-2-32-516A and HV-3-32-5168 are manually operated valves located in FA 47 and 48. These areas are classified as III.G.2, but these valves were not specifically exempted per the letter references in Note 1 as required for manual actions taken in III.G .2 areas. However, NFPA document FAQ-06-0012-R5 (NRC ML073320028) was developed in 2007, which clarified the acceptability of certain Manual Operator Actions to be credited in III.G.2 areas without a specific NRC exemption. This document has been endorsed by

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the NRC in a formal letter dated 01-24-2008 (ML072340368). The 516A and 5166 valves used in FAs 47 and 48, which are credited as manual operator actions as shown above, are hand valves which are always operated manually (i.e., no cabling/control functions need to be protected for them to properly operate). This allows them to meet the intent of the FAQ document. Therefore, these valves do not require any specific exemption request from the NRC. See 02697843-02 for details.

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TABLE A-5

VALVES THAT SERVE AS INTERFACES BETWEEN
LOW PRESSURE PIPING AND THE RCPB

<u>UFSAR Figure</u>	<u>Interface Valves⁽¹⁾</u>	<u>Remarks</u>
4.3.2A	RV-2-71A	This is one of the safety/relief valves mounted on the main steam lines inside the primary containment (typical for ten other SRVs). Spurious opening of an SRV would not result in damage to any piping, since the SRV discharge lines are designed to accommodate such an event. Although opening of an SRV results in discharge of coolant to the suppression pool, such an opening will not preclude safe shutdown of the plant.
4.3.2A	(U) MO-2-74 (D) MO-2-77	<p>These are the containment isolation valves in the main steam drain line header, which is routed to the main condenser. Inside containment, the header is connected to the main steam lines. If both valves open due to fire-caused damage, steam would be released into the main condenser. Although this line discharges above the normal water level in the main condenser, the large surface area available for condensation in each condenser bay would delay overpressurization as these surfaces heat up. Should pressurization occur, the condenser rupture disks would allow the steam passing through the main steam line drain valves to be vented to the Condenser Area in the Turbine Building. This area provides a large volume to allow further condensation and will retain the discharging steam until the pressure limit of the blowout panels located in the walls surrounding this area are exceeded. At that time any steam discharged through the Main Steam Line drains would be dispersed in areas which do not impact the ability to safely shut down the plant.</p> <p>Reasonable assurance is provided that no equipment required for safe shutdown would be prevented from functioning should this line be open nor would operations personnel be prevented from performing their required functions.</p>

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TABLE A-5 (Cont'd)

<u>UFSAR Figure</u>	<u>Interface Valves⁽¹⁾</u>	<u>Remarks</u>
4.3.2A	(U) AO-2-17 (D) AO-2-18	These valves are located in the piping from the RPV head vent line to the drywell equipment drain sump. If both valves open due to fire-caused damage, the steam released into the drain sump would be vented into the drywell via a short vent line. The consequences of this spurious operation have been evaluated; and, it has been determined that the resultant increase in drywell temperature would not prevent the plant from reaching and maintaining cold shutdown.
4.3.2A	(U) AO-2-316 (D) AO-2-317	These are the containment isolation valves in the sample line from main steam line D to sample station 20S107/30S107. If both valves open due to fire-caused damage, a normally closed manual valve (the rack isolation valve) at the sample station would prevent steam blowdown.
4.3.2A	(U) AO-2-39 (D) AO-2-40	These are the containment isolation valves in the sample line from reactor recirculation loop A (pump discharge side) to sample station 20S107/30S107. If both valves open due to fire-caused damage, a normally closed manual valve (the rack isolation valve) at the sample station would prevent reactor water blowdown.
4.9.1	(U) CV-12-55 (U) MO-12-53 (D) MO-12-56 (D) MO-12-57	These valves are located in the RWCU reject line that branches off the RWCU piping downstream of the RWCU piping filter/demineralizers. The two downstream valves are arranged in parallel, with the piping downstream of MO-12-56 leading to the main condenser, and piping downstream of MO-12-57 is isolated by normally closed manual valves. If fire-caused damage results in spurious opening of the upstream valves together with either or both of the downstream valves, the resulting blowdown could potentially overpressurize the downstream piping. However, it has been determined that the maximum overpressurization that could occur would not be sufficient to cause a pipe or component rupture. Any leakage and flooding would not adversely affect equipment used for shutdown. Therefore, for Unit 2 should the valves at this interface spuriously open, the capability to safely shut down would not be jeopardized. For Unit 3, it was found that a fire in Fire Area 13N could cause the spurious opening of these valves either

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TABLE A-5 (Cont'd)

<u>UFSAR Figure</u>	<u>Interface Valves⁽¹⁾</u>	<u>Remarks</u>
		<p>due to a three phase hot short on the power cable or a single phase hot short to the control cable for the valve. This could possibly cause a loss of reactor water inventory. For a fire in Fire Area 13N, RCIC is relied upon for reactor water makeup. In this case, it was determined that RCIC would not have sufficient capability to makeup the inventory loss. A modification was performed that ensures that orifice bypass valve MO-3-12-053 remains closed during a fire in this fire area and eliminates this high/low pressure interface concern. This modification entailed: 1) changing the power supply for this valve from the existing MCC located in Fire Area 13N to an MCC outside of the fire area to ensure that the valve's MCC remains operable during the fire, 2) the power cable from the MCC to the valve was run in rigid metallic conduit to protect against three phase hot shorts, and 3) control cables which could spuriously open the valve were run entirely outside of the fire area to protect from single phase hot shorts. This interface no longer poses a credible concern with regard to inventory control.</p>
4.8.2A & 4.8.2B	(U) MO-10-18 (D) MO-10-17	<p>These valves are the containment isolation valves in the RHR shutdown cooling suction line. If the MO-10-18 and MO-10-17 valves open spuriously due to fire-caused damage, the RHR pump suction piping downstream of these valves could be overpressurized. Therefore, a pressure switch and interposing relay were added within the same fire as the valve's MCC to preclude any spurious opening of this high/low pressure interface boundary when the reactor is at an elevated pressure (>140 psig).</p> <p>This interface no longer poses a credible concern with regard to overpressurization and inventory control.</p>

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TABLE A-5 (Cont'd)

<u>UFSAR Figure</u>	<u>Interface Valves⁽¹⁾</u>	<u>Remarks</u>
4.8.2	(U) AO-10-46A (U) AO-10-163A (D) MO-10-25A (D) RV-10-181A (D) RV-10-181C	<p>These valves are located in the RHR loop A return line to reactor recirculation loop A. AO-10-46A is a check valve with a pneumatic operator; this operator is for testing purposes only and cannot unseat the valve disk or hold it open when a significant closing differential pressure exists across the valve. AO-10-163A is a 1-inch valve in the bypass (pressure-equalizing) line around AO-10-46A.</p> <p>If AO-10-163A and MO-10-25A both open spuriously due to fire-caused damage, the piping in RHR loop A could be pressurized, resulting in a discharge to the clean radwaste system via relief valves RV-10-181A and/or RV-10-181C.</p> <p>Any discharge that might occur from the relief valves would initially accumulate in the equipment drain sumps in Reactor Building Sump Rooms 8 (Unit 2) and 46 (Unit 3). Prolonged discharge to the equipment drain sumps may exceed the sumps' capabilities and cause overflow into the floor drain sumps. Overflow of both sumps will result in flooding of the sump rooms. AO-10-163A has been sized to limit flow such that no equipment required for safe shutdown that is located in the sump rooms would be adversely affected by the anticipated flooding. The flood heights in the rooms would not be exceeded. No operator actions are required to perform in the sump rooms to achieve safe shutdown. Therefore, should the valves at this interface spuriously open, the capability to safely shutdown would not be jeopardized.</p> <p>NOTE: For Unit 2 only, the above High/Low interface does not apply. ECR 11-00190 locked closed manual block valve HV-2-10-23451A(B) upstream of AO-2-10-163A(B) to eliminate the effects of MSO Scenario 2G.</p> <p>NOTE: For Unit 3 only, the above High/Low interface does not apply. ECR 11-00189 locked closed manual block valve HV-3-10-33451A(B) upstream of AO-3-10-163A(B) to eliminate the effects of MSO Scenario 2G.</p>

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TABLE A-5 (Cont'd)

<u>UFSAR Figure</u>	<u>Interface Valves⁽¹⁾</u>	<u>Remarks</u>
4.8.2	(U) AO-10-46B (U) AO-10-163B (D) MO-10-25B (D) RV-10-181B (D) RV-10-181D	<p>These valves are located in the RHR loop B return line to reactor recirculation loop B. Remarks are the same as in the preceding entry for Units 2 and 3 respectively.</p> <p>NOTE: For Unit 2 only, the above High/Low interface does not apply. ECR 11-00190 locked closed manual block valve HV-2-10-23451A(B) upstream of AO-2-10-163A(B) to eliminate the effects of MSO Scenario 2G.</p> <p>NOTE: For Unit 3 only, the above High/Low interface does not apply. ECR 11-00189 locked closed manual block valve HV-3-10-33451A(B) upstream of AO-3-10-163A(B) to eliminate the effects of MSO Scenario 2G.</p>
None	(U) AO-14-13A (U) AO-14-15A (D) MO-14-12A (D) RV-14-20A	<p>These valves are located in the core spray loop A injection line to the reactor vessel. AO-14-13A is a check valve with a pneumatic operator; this operator is for testing purposes only and cannot unseat the valve disk or hold it open when a significant closing differential pressure exists across the valve. AO-14-15A is a 1-inch valve in the bypass (pressure-equalizing) line around AO-14-13A.</p> <p>If AO-14-15A and MO-14-12A both open spuriously due to fire-caused damage, the piping in core spray loop A could be pressurized, resulting in a discharge to the clean radwaste system via relief valves RV-14-20A.</p>

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TABLE A-5 (Cont'd)

<u>UFSAR Figure</u>	<u>Interface Valves⁽¹⁾</u>	<u>Remarks</u>
		<p>Any discharge that might occur from RV-14-20A would initially accumulate in the equipment drain sumps in Reactor Building Sump Rooms 8 (Unit 2) and 46 (Unit 3). Prolonged discharge to the equipment drain sumps may exceed the sumps' capabilities and cause overflow into the floor drain sumps. Overflow of both sumps will result in flooding of the sump rooms. AO-14-15A has been sized to limit flow such that no equipment required for safe shutdown that is located in the sump rooms would be adversely affected. The flood heights in the rooms would not be exceeded. No operator actions are required to perform in the sump rooms to achieve safe shutdown. Therefore, should the valves at this interface spuriously open, the capability to safely shutdown would not be jeopardized.</p> <p>NOTE: For Unit 2 only, the above High/Low interface does not apply. ECR 11-00136 locked closed manual block valve HV-2-14-29046A(B) upstream of AO-2-14-15A(B) to eliminate the effects of MSO Scenario 2Q.</p> <p>NOTE: For Unit 3 only, the above High/Low interface does not apply. ECR 11-00137 locked closed manual block valve HV-3-14-39046A(B) upstream of AO-3-14-15A(B) to eliminate the effects of MSO Scenario 2Q.</p>
None	(U) AO-14-13B (U) AO-14-15B (D) MO-14-12B (D) RV-14-20B	<p>These valves are located in the core spray loop B injection line to the reactor vessel. Remarks are the same as in the preceding entry for Unit 2 and 3 respectively.</p> <p>NOTE: For Unit 2 only, the above High/Low interface does not apply. ECR 11-00136 locked closed manual block valve HV-2-14-29046A(B) upstream of AO-2-14-15A(B) to eliminate the effects of MSO Scenario 2Q.</p> <p>NOTE: For Unit 3 only, the above High/Low interface does not apply. ECR 11-00137 locked closed manual block valve HV-3-14-39046A(B) upstream of AO-3-14-15A(B) to eliminate the effects of MSO Scenario 2Q.</p>

⁽¹⁾ Upstream valves are identified by the (U) designation and downstream valves are identified by the (D) designation. For the purposes of this analysis, upstream valves are defined as those valves that are located closest to the reactor vessel, regardless of the normal direction of flow in the piping.

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TABLE A-5 (Cont'd)

None	(U) M0-2-06-038B (U) M0-3-06-038B (D) M0-2-06-2663 (D) M0-3-06-3663	<p>These valves are located in the feedwater long path recirculation piping. Spurious opening of both valves due to fire-induced damage can create a flow path from the reactor vessel to the condenser via the RWCU piping that could potentially overpressurize the downstream piping. Therefore, the breaker for valve MO-2(3)-06-2(3)663 is maintained open to prevent spurious operation due to single phase hot shorts in the valve's control circuit (installed by ECs 554892 and 555127 to mitigate MSO 7i) and a shorting disconnect switch has been installed to prevent spurious operation of the valve due to three phase hot shorts on its power cable(s) (installed by ECs 623585 and 623586).</p> <p>This interface no longer poses a credible concern with regard to overpressurization and inventory control. This scenario is equivalent for Units 2 & 3.</p>
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