

ATTACHMENT "A"

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TABLE 3.3-11

FIRE DETECTION INSTRUMENTS  
MINIMUM INSTRUMENTS OPERABLE\*

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
1	<u>Containment</u>						
	Cable Tray Areas Elev 63'3"	6		1			
	Cable Tray Areas Elev 45'	4					
	Cable Tray Areas Elev 30'	4					
	Combustible Oil Area Two steam generator rooms				32		32
	Charcoal Filter Area Elev 45'				2		
2	<u>Penetration</u> Elev 63'6"			12			
4	<u>New Fuel Storage Area and Spent Fuel Pool Areas</u>						
	Spent Fuel Pool	4					
	New Fuel Pool	3					
5	<u>Control Building Elev 70'</u>						
	Cable Riser Gallery Rm 423			2	24		
	Cable Riser Gallery Rm 449			3	24		
6	<u>Control Building Elev 70'</u> Radiation Chemical Lab Rms 421, 420	1					
7	<u>Radwaste Elev 63'6"</u>						
	Chemical Storage Area Rm 503			1			
	Radwaste Control Panel Rm 513			1			
	Storage Area Rm 523			1			
	Hot Machine Shop	1					
8	<u>Radwaste Elev 63'6"</u> Waste Decay Tank Rms 511A						None
9	<u>Fuel Handling Building Elev 45'</u>						
	Emgy. A.C. Unit Rm 309-Train A			1	1		
	Emgy. A.C. Unit Rm 301-Train B			1	1		
10	<u>Penetration</u> Elev 45'			6			

\* The fire detection instruments located within the Containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

TABLE 3.3-11 (Continued)

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
11	<u>S.E.B. Roof and Main Steam Relief Valves</u>						
		None					
12	<u>Control Building Elev 50'</u> <u>Cable Riser Gallery Rm 305</u> <u>Cable Riser Gallery Rm 315</u>			3		42	
				3		40	
13A	<u>Control Building Elev 30'</u> <u>Emgy. HVAC Unit Rm 309A</u>			1			
13B	<u>Control Building Elev 50'</u> <u>Emgy. HVAC Unit Rm 309B</u>			1			
14	<u>Radwaste Elev 24'</u> <u>Boric Acid Makeup Tank Rm 204B</u> <u>Boric Acid Makeup Tank Rm 204A</u>						
		None					
15	<u>Control Building Elev 50'</u> <u>ESF Switchgear Rm 308A</u> <u>ESF Switchgear Rm 308B</u>						
				2			
				2			
16	<u>Radwaste Elev 37' &amp; 50'</u> <u>Ion Exchangers</u>						
		None					
17	<u>Diesel Generator Building</u> <u>Train A</u> <u>Train B</u>						
				3		4	
				3		4	
18	<u>Diesel Fuel Oil Storage Tank</u> <u>Underground Vaults</u>						
		None					
20	<u>Condensate Storage Tank T-121</u>						
		None					
21	<u>Nuclear Storage Tank T-104</u>						
		None					
22	<u>Auxiliary Feedwater Pump Room</u>						
				2		6	
23	<u>Fuel Handling Bldg Elev 30'</u> <u>Spent Fuel Pools Heat Exchange</u> <u>Room 209</u>						
		None					
28	<u>Penetration Elev. 30'</u>						
						2	

TABLE 3.3-11 (Continued)

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
29	<u>Control Building Elev 30'</u>						
	Cable Riser Gallery Rm 236			3			51
	Cable Riser Gallery Rm 224			3			52
30	<u>Electrical Tunnel Elev 30'6"</u>			13			50
31	<u>Control Building Elev 30'</u>			29			
32A	<u>Control Building Elev 30'</u>						
	Fan Room Rm 219 & Corridor Rm 221			1			2
32B	<u>Control Building Elev 30'</u>						
	Fan Room Rm 233 & Corridor Rm 234			1			
34	<u>Radwaste Elev 9' &amp; 24'</u>						
	Secondary Radwaste Tank						
	Rms 126A,B & 127A,B			None			
35	<u>Radwaste Elev 9' &amp; 24'</u>						
	Spent Resin Tank Rms 125A,B			None			
36	<u>Fuel Handling Building Elev 17'6"</u>						
	Spent Fuel Pool Pump Rm 107					2	
37	<u>Radwaste Elev 24'</u>						
	Letdown Heat Exchanger						
	Rms 209A,B			None			
38	<u>Radwaste Elev 24'</u>						
	Letdown Control Valve Rms 218A,B			None			
39	<u>Radwaste Elev 24'</u>						
	Filter Crvd Tank Rm 216			None			
40	<u>Radwaste Elev 9' &amp; 24'</u>						
	Primary Radwaste Tank Rms 211A,D			None			
41	<u>Control Building Elev 9'</u>						
	Cable Spreading Rm 111A			17			36
	Cable Spreading Rm 111B			14			36
42	<u>Control Building Elev 9'</u>						
	Cable Riser Gallery Rm 110			6			44
	Cable Riser Gallery Rm 112			6			39

TABLE 3.3-11 (Continued)

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
60	<u>Safety Eqpmt Bldg Elev 15'6"</u> Pump Rm 015						1
61	<u>Safety Eqpmt Bldg Elev 15'6"</u> Component Cooling Water Pump Rms 006, 007, 008						3
62	<u>Radwaste Elev 50'</u> Volume Control Valve Rooms	None					
63	<u>Control Building Elev 50'</u> Corridor						12
64	<u>Control Building Elev 50'</u> Vital Power Distribution Rms 310A-H						8
65	<u>Control Building Elev 50'</u> Battery Rms 306B-J						8
66	<u>Control Building Elev 50'</u> Evacuation Rm 311						1
67	<u>Radwaste Elev 63'6"</u> Cable Riser Gallery Rm 506A Cable Riser Gallery Rm 506B				2	4	2
68	<u>Penetration 9' - 63'6"</u> Cable Riser Shaft				1	21	
69	<u>Safety Eqpmt Bldg Elev 5'3"</u> Salt Water Cooling Piping Rm 010	None					
70	<u>Radwaste Elev 24'</u> Duct Shaft Rms 222A,B	None					
72	<u>Control Building Elev 70'</u> Corridor 442	None					
75	<u>Refueling Water Storage Tank</u> <u>T-005</u>	None					
76	<u>Refueling Water Storage Tank</u> <u>T-006</u>	None					

TABLE 3.7-5

Safety Related Spray and/or Sprinkler Systems

<u>Hazard</u>	<u>Location</u>	<u>No. of Systems</u>	<u>System Type</u>
Reactor Coolant Pumps	Containment	4	Deluge-Water Spray
R.R. Tunnel	Fuel Hand. Bldg.	1	Wet Pipe
Truck Ramp	Radwaste Bldg.	1	Wet Pipe
Cable Tunnel	Section 1	1	Deluge-Water Spray
Cable Tunnel	Section 2	1	Deluge-Water Spray
Cable Tunnel	Section 3	1	Deluge-Water Spray
Cable Tunnel	Section 4	1	Deluge-Water Spray
Cable Tunnel	Section 5	1	Deluge-Water Spray
Cable Tunnel	Section 6	1	Deluge-Water Spray
Cable Tunnel	Section 7	1	Deluge-Water Spray
Cable Tunnel	Section 8	1	Deluge-Water Spray
Cable Tunnel	Section 9	1	Deluge-Water Spray
Cable Tunnel	Section 10	1	Deluge-Water Spray
Cable Tunnel Riser	Fuel Hand Bldg.	1	Deluge-Water Spray
Cable Gallery	Radwaste Bldg.	2*	Deluge-Water Spray
Cable Risers El. 9 ft.	Control Bldg.	2*	Deluge-Water Spray
Cable Risers El. 30 ft.	Control Bldg.	2*	Deluge-Water Spray
Cable Risers El. 50 ft.	Control Bldg.	2*	Deluge-Water Spray
Cable Risers El. 70 ft.	Control Bldg.	2*	Deluge-Water Spray
Cable Spreading Room	Control Bldg.	4*	Deluge-Water Spray
Charcoal Filter A-353	Containment	1	Deluge-Water Spray
Emergency A.C. Unit - Train A	Fuel Handling Bldg.	1	Deluge-Water Spray
Emergency A.C. Unit - Train B	Fuel Handling Bldg.	1	Deluge-Water Spray
Charcoal Filter E-419	Control Bldg.	1	Deluge-Water Spray
Charcoal Filter A-206	Control Bldg.	1	Deluge-Water Spray
Diesel Generator	DG Bldg.	2	Pre-Action Sprinkler

\*One half of these Systems are designated Unit 3 but are required to be OPERABLE for Unit 2 operation.

ATTACHMENT "B"

TABLE 3.3-11

FIRE DETECTION INSTRUMENTS  
MINIMUM INSTRUMENTS OPERABLE\*

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
1	<u>Containment</u>						
	Cable Tray Areas Elev 63'3"			10			
	Cable Tray Areas Elev 45'			9			
	Cable Tray Areas Elev 30'			4			
	Elevator Machinery Room			1			
	Combustible Oil Area						
	Two steam generator rooms					32	
	Charcoal Filter Area Elev 45'	2					
2	<u>Penetration</u>						
	Elev 63'6"			12			
4	<u>New Fuel Storage Area and Spent Fuel Pool Areas</u>						
	Spent Fuel Pool			4			
	New Fuel Pool			3			
5	<u>Control Building Elev 70'</u>						
	Cable Riser Gallery Rm 423				2	24	
	Cable Riser Gallery Rm 449				3	24	
6	<u>Control Building Elev 70'</u>						
	Radiation Chemical Lab Rms 421, 420			1			
7	<u>Radwaste Elev 63'6"</u>						
	Chemical Storage Area Rm 503				1		
	Radwaste Control Panel Rm 513				1		
	Storage Area Rm 523				1		
	Hot Machine Shop	1					
8	<u>Radwaste Elev 63'6"</u>						
	Waste Decay Tank Rms 511A				None		
9	<u>Fuel Handling Building Elev 45'</u>						
	Emgy. A.C. Unit Rm 309-Train A	1			1		
	Emgy. A.C. Unit Rm 301-Train B	1			1		
10	<u>Penetration</u>						
	Elev 45'			6			

\* The fire detection instruments located within the Containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.



TABLE 3.3-11 (Continued)

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
11	<u>S.E.B. Roof and Main Steam Relief Valves</u>						
		None					
12	<u>Control Building Elev 50'</u> <u>Cable Riser Gallery Rm 305</u> <u>Cable Riser Gallery Rm 315</u>				3	42	
					3	40	
13A	<u>Control Building Elev 30'</u> <u>Emgy. HVAC Unit Rm 309A</u>						1
		1					
13B	<u>Control Building Elev 50'</u> <u>Emgy. HVAC Unit Rm 309B</u>						1
		1					
14	<u>Radwaste Elev 24'</u> <u>Boric Acid Makeup Tank Rm 204B</u> <u>Boric Acid Makeup Tank Rm 204A</u>						
		None					
		None					
15	<u>Control Building Elev 50'</u> <u>ESF Switchgear Rm 308A</u> <u>ESF Switchgear Rm 308B</u>				2		
					2		
16	<u>Radwaste Elev 37' &amp; 50'</u> <u>Ion Exchangers</u>						
		None					
17	<u>Diesel Generator Building</u> <u>Train A</u> <u>Train B</u>				3	4	
					3	4	
18	<u>Diesel Fuel Oil Storage Tank</u> <u>Underground Vaults</u>						
		None					
20	<u>Condensate Storage Tank T-121</u>						
		None					
21	<u>Nuclear Storage Tank T-104</u>						
		None					
22	<u>Auxiliary Feedwater Pump Room</u>				2	6	
23	<u>Fuel Handling Bldg Elev 30'</u> <u>Spent Fuel Pools Heat Exchange</u> <u>Room 209</u>						
		None					
28	<u>Penetration Elev. 30'</u>				2		

TABLE 3.3-11 (Continued)

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
29	<u>Control Building Elev 30'</u>						
	Cable Riser Gallery Rm 236			3			51
	Cable Riser Gallery Rm 224			3			52
30	<u>Electrical Tunnel Elev 30'6"</u>			13			50
31	<u>Control Building Elev 30'</u>			29			
32A	<u>Control Building Elev 30'</u>						
	Fan Room Rm 219 & Corridor Rm 221	2		1			
32B	<u>Control Building Elev 30'</u>						
	Fan Room Rm 233 & Corridor Rm 234	2		1			
34	<u>Radwaste Elev 9' &amp; 24'</u>						
	Secondary Radwaste Tank						
	Rms 126A,B & 127A,B			None			
35	<u>Radwaste Elev 9' &amp; 24'</u>						
	Spent Resin Tank Rms 125A,B			None			
36	<u>Fuel Handling Building Elev 17'6"</u>						
	Spent Fuel Pool Pump Rm 107				2		
37	<u>Radwaste Elev 24'</u>						
	Letdown Heat Exchanger						
	Rms 209A,B			None			
38	<u>Radwaste Elev 24'</u>						
	Letdown Control Valve Rms 218A,B			None			
39	<u>Radwaste Elev 24'</u>						
	Filter Crvd Tank Rm 216			None			
40	<u>Radwaste Elev 9' &amp; 24'</u>						
	Primary Radwaste Tank Rms 211A,D			None			
41	<u>Control Building Elev 9'</u>						
	Cable Spreading Rm 111A			17			36
	Cable Spreading Rm 111B			14			36
42	<u>Control Building Elev 9'</u>						
	Cable Riser Gallery Rm 110			6			44
	Cable Riser Gallery Rm 112			6			39

TABLE 3.3-11 (Continued)

Zone	Instrument Location	Early Warning			Actuation		
		HEAT	FLAME	SMOKE	HEAT	FLAME	SMOKE
60	<u>Safety Eqpmt Bldg Elev 15'6"</u> Pump Rm 015			1			
61	<u>Safety Eqpmt Bldg Elev 15'6"</u> Component Cooling Water Pump Rms 006, 007, 008			3			
62	<u>Radwaste Elev 50'</u> Volume Control Valve Rooms	None					
63	<u>Control Building Elev 50'</u> Corridor			12			
64	<u>Control Building Elev 50'</u> Vital Power Distribution Rms 310A-H			8			
65	<u>Control Building Elev 50'</u> Battery Rms 306B-J			8			
66	<u>Control Building Elev 50'</u> Evacuation Rm 311			1			
67	<u>Radwaste Elev 63'6"</u> Cable Riser Gallery Rm 506A Cable Riser Gallery Rm 506B			2	4		
68	<u>Penetration 9' - 63'6"</u> Cable Riser Shaft			1	21		
69	<u>Safety Eqpmt Bldg Elev 5'3"</u> Salt Water Cooling Piping Rm 010	None					
70	<u>Radwaste Elev 24'</u> Duct Shaft Rms 222A,B	None					
72	<u>Control Building Elev 70'</u> Corridor 401	None					
75	<u>Refueling Water Storage Tank</u> <u>T-005</u>	None					
76	<u>Refueling Water Storage Tank</u> <u>T-006</u>	None					

TABLE 3.7-5

SAFETY RELATED SPRAY AND/OR SPRINKLER SYSTEMS

<u>HAZARD</u>	<u>LOCATION</u>	<u>NUMBER OF SYSTEMS</u>	<u>SYSTEM TYPE</u>
Reactor Coolant Pumps	Containment	4	Deluge-Water Spray
Railroad Tunnel	Fuel Handling Building	1	Wet Pipe
Truck Ramp	Radwaste Building	1	Wet Pipe
Cable Tunnel	Section 1	1	Deluge-Water Spray
Cable Tunnel	Section 2	1	Deluge-Water Spray
Cable Tunnel	Section 3	1	Deluge-Water Spray
Cable Tunnel	Section 4	1	Deluge-Water Spray
Cable Tunnel	Section 5	1	Deluge-Water Spray
Cable Tunnel	Section 6	1	Deluge-Water Spray
Cable Tunnel	Section 7	1	Deluge-Water Spray
Cable Tunnel	Section 8	1	Deluge-Water Spray
Cable Tunnel	Section 9	1	Deluge-Water Spray
Cable Tunnel	Section 10	1	Deluge-Water Spray
Cable Tunnel Riser	Fuel Handling Building	1	Deluge-Water Spray
Cable Gallery	Radwaste Building	2*	Deluge-Water Spray
Cable Risers El 9'	Control Building	2*	Deluge-Water Spray
Cable Risers El 30'	Control Building	2*	Deluge-Water Spray
Cable Risers El 50'	Control Building	2*	Deluge-Water Spray
Cable Risers El 70'	Control Building	2*	Deluge-Water Spray
Cable Spreading Room	Control Building	4*	Deluge-Water Spray
Emergency A.C. Unit - Train A	Fuel Handling Building	1**	Deluge-Water Spray
Emergency A.C. Unit - Train B	Fuel Handling Building	1**	Deluge-Water Spray
Diesel Generator	DG Building	2	Pre-action Sprinkler
HVAC Room 309A; Corridor 303	Control Building 50'	1	Wet Pipe
Auxiliary Feedwater Pump Room	Tank Building 30'	1	Pre-action Sprinkler
Fan Room 233 and Corridor 234	Control Building 30'	1	Wet Pipe
Salt Water Cooling Pumps and Salt Water Cooling Tunnel	Intake Structure	1	Wet Pipe
CCW Heat Exchangers and Piping Room; A/C Room 017	Safety Equipment Bldg.	1	Wet Pipe
Corridor 401	Control Building 70'	1	Wet Pipe
Corridor 105	Control Building 9'	1	Wet Pipe

\*One half of these systems are designated Unit 3, but are required to be OPERABLE for Unit 2 operation.

\*\*Charcoal filter deluge systems are manually actuated.