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LIMITING CONDITION FOR OPERATION AND SURVEILLANCE REQUIREMENTS

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INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.8 As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 3.3-11 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the fire detection instrument is required to be OPERABLE.

ACTION:

- a. With any, but not more than one-half the total in any fire zone Function A fire detection instruments shown in Table 3.3-11 inoperable except for the annulus, restore the inoperable instrument(s) to OPERABLE status within 14 days or within the next 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- b. With more than one-half of the Function A fire detection instruments in any fire zone shown in Table 3.3-11 inoperable except for the annulus, or with any Function B fire detection instruments shown in Table 3.3-11 inoperable, or with any two or more adjacent fire detection instruments shown in Table 3.3-11 inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- c. With both annulus detection instruments inoperable, restore at least 1 detector to operable status or within the next 1 hour establish a fire watch patrol to inspect the zone at least once per eight hours.*
- d. The provisions of Specification 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.8.1 Each of the above required fire detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months by performance of a CHANNEL FUNCTIONAL TEST. Fire detectors which are not accessible during plant operation shall be demonstrated OPERABLE by the performance of a CHANNEL FUNCTIONAL TEST during each COLD SHUTDOWN exceeding 24 hours unless performed in the previous 6 months.

4.3.3.8.2 The NFPA Standard 72D supervised circuits supervision associated with the detector alarms of each of the above required fire detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months. Circuits which are not accessible during plant operation shall be demonstrated OPERABLE during each COLD SHUTDOWN exceeding 24 hours unless performed in the previous 6 months.

* Fire watch patrol may be temporarily suspended during performance of Specification 4.6.6.1.a.

Existing

INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

SURVEILLANCE REQUIREMENTS (Continued)

4.3.3.8.3 The nonsupervised circuits associated with detector alarms between the instrument and the control room shall be demonstrated OPERABLE at least once per 31 days.

4.3.3.8.4 Each of the resistor wires required by Table 3.3-11 shall be demonstrated OPERABLE at least once per 6 months by verifying the proper wire resistance.

Existing

TABLE 3.3-11
FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
1. REACTOR AUXILIARY BUILDING					
RAB 1A	Main Control Panels 1,2,3,4,6,7,8,35,36	+46			10/0
RAB 1A	Control Room Proper/304	+46			20/0
RAB 1B	Emergency Equip. H&V Room/314	+46			0/12
RAB 1D	Computer Room (above raised floor)/306	+46			5/0
	Computer Room (below raised floor)/306	+46			0/7
RAB 2	Ventilation Equip. Room/299	+46			0/35
RAB 3	RAB Corridor to Relay Room/261	+35	0/1(3)		4/0
	RAB HVAC Switchgear Equip. Room/323	+46			0/10
RAB 3A	RAB Battery Exhaust Fan Room/406	+69			0/2
RAB 4	Cable Vault/260	+35			0/27
RAB 5	Electrical Penetration Area "A"/263	+35			0/13
RAB 6	Electrical Penetration Area "B"/263A	+35			0/14
RAB 7	Relay Room/262	+35	(3)		12/0
	Isolation Panels (9 Compartments - 2 per comp.)	+35			2/0
RAB 8A	High Voltage Switchgear Room "A"/212A	+21	0/1(1)		18/0
RAB 8B	Electrical Equip. Room/225B and High Voltage Switchgear Room "B"/214	+21	0/1(2)		28/0
	480V Switchgear 3A32 Room	+21	(2)		2/0
RAB 8C	High Voltage Switchgear Room "A-B"/212B	+21	(1)		8/0
RAB 8E	CEA M/G: Set Room/216	+21			2/0
RAB 9	Remote Shutdown Panel Room/217	+21			1/0
RAB 11	Battery Room "B"/213	+21			2/0
RAB 12	Battery Room "AB"/214A	+21			2/0
RAB 13	Battery Room "A"/214	+21			2/0
RAB 15	Emergency Diesel Gen. "B" Room/222	+21	0/1		
RAB 15A	Emergency Diesel Gen. "B" Feed TK Room/328A	+46	0/1		
RAB 16	Emergency Diesel Gen. "A" Room/221	+21	0/1		
RAB 16A	Emergency Diesel Gen. "A" Feed Tk. Room 328A	+46	0/1		
RAB 17	CCW Heat Exchanger "B"/236	+21			0/4
RAB 18	CCW Heat Exchanger "A"/220	+21			0/4
RAB 19	CCW Pump "A"/235	+21			0/2
RAB 20	CCW Pump "AB"/234	+21			0/2
RAB 21	CCW Pump "B"/233	+21			1/0
RAB 2	Corridor to CCW Pumps/218, Corridor to CCW Heat Exchangers/219 and Corridor to Emergency Diesel Gen./225A	+21			0/39

(1) Common Resistor Wire
(2) Common Resistor Wire
(3) Common Resistor Wire
WATERFORD - UNIT 3

Existing

TABLE 3.3-11 (Continued)
FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION ('t)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
1. REACTOR AUXILIARY BUILDING (Continued)					
RAB 25	Equip. Access Area/226 (wing area)	+21			15/0
RAB 27A	M&V Room/124	+ 7			0/6
RAB 27B	Electrical Area and Health Physics Offices/122	+ 7			0/35
RAB 27C	I&C Room/120	+ 7			0/6
RAB 27D	Communications Equip. Room/123	+ 7			1/0
RAB 31	Corridors and Passageways	- 4			0/24
	Corridors on eastside	- 4			0/21
RAB 32	Wing Area westside - Auxiliary Com- ponent Cooling Water Pump "A"/B53 and Pipe Penetration Area/B100	-35 & - 4			32/0
	Wing Area Center/B53 and B100	-35 & - 4			28/0
	Wing Area eastside-Component Cooling Water Pump "B"/B53 and Pipe Penetration Area/B100	-35 - 4			31/0
RAB 33	S/D Cooling Heat Exchangers A&B/B20 & B48	-35			0/18
RAB 34	Valve Operating Enclosure Bay Room "A"/B54	-15.5			2/0
	Valve Operating Enclosure Bay Room "B" B55A	-15.5			4/0
RAB 35	Safety Injection Pump Room B/B16	-35			10/0
RAB 36	Safety Injection Pump Room A/B15	-35			10/0
RAB 37	Motor-Driven Emergency Feedpump "A"/B49A	-35			0/1
RAB 38	Motor-Driven Emergency Feedpump "B"/B49B	-35			1/0
RAB 39	General Equipment Area/B5, 12, 13, & 49	-35			0/10
	Corridors & General Equip. Areas/B5, 1, 2, 3, 4, 39, 40, 41, 42, 44 & 46	-35			0/28
	East Corridor & General Equip. Areas/ B17, 23 & 25	-35			0/15
	BA Make-up Tank "A"/B38	-35			4/0
	BA Make-up Tank "B"/B53A	-35			4/0
RAB 40	Diesel Storage Tank "A"/B50	-35			3/0
RAB 41	Diesel Storage Tank "B"/B52	-35			3/0

Existing

TABLE 3.3-11 (Continued)
FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
2. REACTOR CONTAINMENT BUILDING**					
RCB 1	Annulus/420***	+46			2/0
RCB 2	Electrical Penetration Area A	+21			24/0
RCB 3	Electrical Penetration Area B	+21			21/0
RCB 4	Reactor Cable Trays	+46			16/0
CT 1&3	Wet & Dry Cooling Tower "A" Cable Tray		1/0		
CT 2&4	Wet & Dry Cooling Tower "B" Cable Tray		1/0		
3. FUEL HANDLING BUILDING					
FHB 2	Purification Pump Room/B155, Fuel Pool Pump "A"/B157, Fuel Pool Pump "B"/B156, Fuel Pool Heater Exchanger/B158 and Access Area/B-161	+ 1			10/0
	Emergency Filter Train Unit/B152	+ 1			6/0
	Emergency Elect. Equip. Room/B151	+ 1			1/0
4. CHARCOAL AIR FILTER UNITS					
E-35 (3A-SA)	FHB Emergency Filter Train "A"	+ 1	1/0		
E-35 (3B-SB)	FHB Emergency Filter Train "B"	+ 1	1/0		
E-17 (3A-SA)	Shield Building Ventilation System Filter Train "A"	+46	1/0		
E-17 (3B-SB)	Shield Building Ventilation System Filter Train "B"	+46	1/0		
E-23 (3A-SA)	Controlled Ventilation Area System Filter Train "A"	+46	1/0		
E-23 (3A-SB)	Controlled Ventilation Area System Filter Train "B"	+46	1/0		
S-8 (3A-SA)	Control Room Emergency Filter Train "A"	+46	1/0		
S-8 (3B-SB)	Control Room Emergency Filter Train "B"	+46	1/0		

TABLE NOTATIONS

*(x/y): x is the number of Function A (early warning fire detection and notification only) instruments.
y is the number of Function B (actuation of fire suppression systems and early warning and notification) instruments.

**The fire detection instruments located within the containment are not required to be OPERABLE during the performance of Type A containment leakage rate tests.

***Annulus detection is provided by smoke detectors mounted on the duct of the Annulus Negative Pressure System. This segment of duct is physically located in the RAB H&V Equipment Room (299).

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PLANT SYSTEMS

3/4.7.10 FIRE SUPPRESSION SYSTEMS

FIRE SUPPRESSION WATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.10.1 The fire suppression water system shall be OPERABLE with:

- a. Two fire suppression pumps, each with a capacity of 2000 gpm, with their discharge aligned to the fire suppression header,
- b. Separate water supplies, each with a minimum contained volume of 237,000 gallons (33 feet), and
- c. An OPERABLE flow path capable of taking suction from the east fire water tank and the west fire water tank and transferring the water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant curb valves, the last valve ahead of the water flow alarm device on each sprinkler or hose standpipe, and the last valve ahead of the deluge valve on each deluge or spray system required to be OPERABLE per Specifications 3.7.10.2, 3.7.10.4, and 3.7.10.5.

APPLICABILITY: At all times.

ACTION:

- a. With one pump and/or one water supply inoperable, restore at least two pumps and/or water supplies to OPERABLE status within 7 days or provide an alternate backup pump or supply.
- b. With the fire suppression water system otherwise inoperable, establish a backup fire suppression water system within 24 hours.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.1.1 The fire suppression water system shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying the contained water supply volume.
- b. At least once per 31 days by starting the electric motor-driven pump and operating it for at least 15 minutes.
- c. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position.

Existing

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- d. At least once per 12 months by performance of a system flush.
- e. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- f. At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:
 - 1. Verifying that each pump develops at least 2000 gpm at a total head of 100 psid by verifying at least 3 points on the pump performance curve during performance testing.
 - 2. Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and
 - 3. Verifying that each fire suppression pump starts (sequentially) to maintain the fire suppression water system pressure greater than or equal to 96.5 psig.
- g. At least once per 3 years by performing a flow test of the system in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association.

4.7.10.1.2 Each fire pump diesel engine shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying:
 - 1. The diesel fuel oil day storage tank contains at least 170 gallons of fuel, and
 - 2. The diesel starts from ambient conditions and operates for at least 30 minutes.
- b. At least once per 92 days by verifying that a sample of diesel fuel from the fuel storage tank, obtained in accordance with ASTM-D270-75, is within the acceptable limits specified in Table 1 of ASTM D975-77 when checked for viscosity, water and sediment.
- c. At least once per 18 months during shutdown, by subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service.

SURVEILLANCE REQUIREMENTS (Continued)

4.7.10.1.3 Each fire pump diesel starting 12-volt battery bank and charger shall be demonstrated OPERABLE.

- a. At least once per 7 days by verifying that:
 - 1. The electrolyte level of each battery is above the plates, and
 - 2. The overall battery voltage is greater than or equal to 12 volts.

- b. At least once per 92 days by verifying that the specific gravity is appropriate for continued service of the battery.

- c. At least once per 18 months by verifying that:
 - 1. The batteries and battery racks show no visual indication of physical damage or abnormal deterioration, and
 - 2. The battery-to-battery and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material.

Existing

PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.10.2 The following spray and/or sprinkler systems shall be OPERABLE:

<u>Sprinkler No.</u>	<u>Blgd./Elev.</u>	<u>Location</u>
FPM-1	RCB	Reactor Coolant Pumps 1A, 1B
FPM-2	RCB	Reactor Coolant Pump 2A, 2B
FPM-3A	RAB +21, +46	Diesel Generator Area A, Feed Tank Room A
FPM-4B	RAB +21, +46	Diesel Generator Area B, Feed Tank Room B
FPM-11A	RAB -35	Emergency D/G Fuel Oil Tank A
FPM-11B	RAB -35	Emergency D/G Fuel Oil Tank B
FPM-16	FWPH +15	Fire Water Pump House
FPM-17	RAB +35	Cable Vault Area
FPM-18	RAB +35	Electrical Penetration Area 1
FPM-19	RAB +35	Electrical Penetration Area 2
FPM-22	RAB -4	Corridor and Blowdown Tank Rooms
FPM-23	RAB -35	Corridor, Shutdown Heat Exchanger Rooms, EFW Pump Room
FPM-24	RAB +21	Corridors, CCW Area
FPM-25	RAB +21	North High Voltage Switchgear Room
FPM-26	RAB +46	Ventilation Equipment Rooms
FPM-27	RAB +7	HVAC Rooms
FPM-28	RAB -35	Auxiliary Component Cooling Water Pump Rooms
FPM-29	RAB +35	Relay Room, Corridor
FPM-30A	RAB +21	South High Voltage Switchgear Room
FPM-33	RAB +46	E-17(3A-SA) Shield Building Ventilation System Filter, Train A Charcoal Adsorber
FPM-34	RAB +46	E-17(3B-SB) Shield Building Ventilation System Filter, Train B Charcoal Adsorber
FPM-36	RAB +46	E-23(3A-SA) Controlled Ventilation Area System Filter, Train A Charcoal Adsorber
FPM-37	RAB +46	E-23(3B-SB) Controlled Ventilation Area System Filter, Train B Charcoal Adsorber

APPLICABILITY: Whenever equipment protected by the spray/sprinkler system is required to be OPERABLE.

ACTION:

- a. With one or more of the above required spray and/or sprinkler systems inoperable, within 1 hour establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components could be damaged unless the spray and/or sprinkler system(s) is located inside the containment, then inspect that containment area at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5; for other areas, establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.2 Each of the above required spray and/or sprinkler systems shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position.
- b. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- c. At least once per 18 months:
 1. By performing a system functional test which includes simulated automatic actuation of the system, and:
 - a) Verifying that the automatic valves in the flow path actuate to their correct positions on a thermal/preaction test signal, and
 - b) Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
 2. By a visual inspection of the dry pipe spray and sprinkler headers to verify their integrity, and
 3. By a visual inspection of each nozzle's spray area to verify the spray pattern is not obstructed.
- d. At least once per 3 years by performing an air flow test through each open head spray and sprinkler header* system listed in Section 3.7.10.2 and verifying the spray nozzles are unobstructed.

*In lieu of an air flow test, the charcoal filter system spray nozzles need only be visually inspected and verified to be unobstructed each time the charcoal is changed.

PLANT SYSTEMS

Existing

HALON SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.10.3 The computer room Halon system shall be OPERABLE.

APPLICABILITY: whenever equipment protected by the Halon system is required to be OPERABLE.

ACTION:

- a. with the above required Halon system inoperable, within 1 hour establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.3 The above required Halon system shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path is in its correct position.
- b. At least once per 6 months by verifying Halon storage tank weight to be at least 95% of full charge weight (level) and pressure to be at least 90% of full charge pressure.
- c. At least once per 18 months by verifying:
 1. The system, including associated ventilation dampers and fire door release mechanisms, actuates manually and automatically, upon receipt of a simulated test signal, and
 2. Performance of a flow test through headers and nozzles to assure no blockage.

Existing

PLANT SYSTEMS

FIRE HOSE STATIONS

LIMITING CONDITION FOR OPERATION

3.7.10.4 The fire hose stations shown in Table 3.7-4 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the areas protected by the fire hose stations is required to be OPERABLE.

ACTION:

- a. With one or more of the fire hose stations shown in Table 3.7-4 inoperable, provide gated wye(s) on the nearest operable hose station(s). One outlet of the wye shall be connected to the standard length of hose provided for the hose station. The second outlet of the wye shall be connected to a length of hose sufficient to provide coverage for the area left unprotected by the inoperable hose station. Where it can be demonstrated that the physical routing of the fire hose would result in a recognizable hazard to operating technicians, plant equipment, or the hose itself, the fire hose shall be stored in a roll at the outlet of the operable hose station. Signs shall be mounted above the gated wye(s) to identify the proper hose to use. The above action shall be accomplished within 1 hour if the inoperable fire hose is the primary means of fire suppression; otherwise, route the additional hose within 24 hours.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.4 Each of the fire hose stations shown in Table 3.7-4 shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the stations accessible during plant operation to assure all required equipment is at the station.
- b. At least once per 18 months by:
 1. Visual inspection of the stations not accessible during plant operations to assure all required equipment is at the station.
 2. Removing the hose for inspection and reracking, and
 3. Inspecting all gaskets and replacing any degraded gaskets in the couplings.

Existing

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 3 years by:
1. Partially opening each hose station valve to verify valve OPERABILITY and no flow blockage.
 2. Conducting a hose hydrostatic test at a pressure of 150 psig or at least 50 psig above maximum fire main operating pressure, whichever is greater.

Existing

TABLE 3.7-4

FIRE HOSE STATIONS

<u>LOCATION</u> <u>BLDG/COLUMN</u>	<u>ELEVATION (Feet MSL)</u>	<u>HOSE RACK IDENTIFICATION</u>
FHB 2FH-U	-35	FH/A-010
FHB 3FH-V	+1	FH/A-020
FHB 5FH-V	+1	FH/A-021
FHB 2FH-T	+21	FH/A-040
FHB 2FH-V	+18	FH/A-041
FHB Escape Exit	+21	FH/A-043
FHB 6FH-W	+18	FH/A-042
FHB 2FH-T	+46	FH/A-030
FHB 7FH-W	+46	FH/A-031
RAB J-9A	-35	RA/F-101
RAB J-6A	-35	RA/F-102
RAB H-4A	-35	RA/F-103
RAB J-3A	-35	RA/F-104
RAB K-4A	-35	RA/F-105
RAB M-10AZ	-35	RA/C-106
RAB M-3A	-35	RA/A-107
RAB M-2AC	-20	RA/K-108
RAB M-11AZ	-20	RA/L-109
RAB K-10A	-35	RA/F-110
RAB K-11A	-4	RA/D-201
RAB H-11A	-4	RA/D-202
RAB J-10A	-4	RA/E-203
RAB J-6A	-4	RA/H-204
RAB H-4A	-4	RA/I-205
RAB K-4A	-4	RA/J-206
RAB M-10AZ	-4	RA/C-207
RAB M-3A	-4	RA/A-208
RAB LY-8A	-4	RA/B-209
RAB K12A	+7	RA/D-301
RAB J11A	+7	RA/D-302
RAB H-11A	+21	RA/E-401
RAB H-9A	+21	RA/E-402
RAB K-11A	+21	RA/D-403
RAB L-7A	+21	RA/C-411
RAB N-10AZ	+21	RA/C-405
RAB J-6A	+21	RA/I-406
RAB H-4A	+21	RA/I-407
RAB J-1A	+21	RA/I-408
RAB K-4A	+21	RA/J-409
RAB L-7A	+21	RA/G-410
RAB N-4A	+21	RA/A-412
RAB L-2A	+21	RA/A-413
RAB H-12A	+35	RA/E-501
RAB K-11A	+35	RA/E-502
RAB N-10AZ	+35	RA/C-503
RAB Northeast Stairwell	+21	RA/C-404

Existing

TABLE 3.7-4 (Continued)

FIRE HOSE STATIONS

<u>LOCATION BLDG/COLUMN</u>	<u>ELEVATION (Feet MSL)</u>	<u>HOSE RACK IDENTIFICATION</u>
RAB H-10A	+35	RA/E-504
RAB K-9A	+35	RA/E-505
RAB L-9A	+35	RA/C-506
RAB LY-6A	+35	RA/A-507
RAB J-9A	+35	RA/E-508
RAB L-8A	+35	RA/E-509
RAB G-9A	+35	RA/E-510
RAB J-12A	+46	RA/E-601
RAB K-11A	+46	RA/G-602
RAB K-10A	+46	RA/G-603
RAB K-8A	+46	RA/G-604
RAB G-7A	+46	RA/G-605
RAB K-6A	+46	RA/J-606
RAB K-2A	+46	RA/J-607
RAB J-2A	+46	RA/J-608
RAB J-3A	+46	RA/J-609
RAB K-2A	+69	RA/J-701
*RCB 19	-4	R/A-201
*RCB 12	-4	R/A-202
*RCB 6	-4	R/B-203
*RCB 1	-4	R/B-204
*RCB 20	+21	R/A-401
*RCB 13	+21	R/A-402
*RCB 7	+21	R/B-403
*RCB 1	+21	R/B-404
*RCB 13	+35	R/A-502
*RCB 20	+46	R/A-601
*RCB 13	+46	R/A-602
*RCB 7	+46	R/B-603
*RCB 2	+46	R/B-604

*Indicates all hose stations not accessible during plant operations and shall be demonstrated operable at least once per 18 months.

Existing

PLANT SYSTEMS

YARD FIRE HYDRANTS AND HYDRANT HOSE HOUSES

LIMITING CONDITION FOR OPERATION

3.7.10.5 The yard fire hydrants and associated hydrant hose houses shown in Table 3.7-5 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the areas protected by the yard fire hydrants is required to be OPERABLE.

ACTION:

- a. With one or more of the yard fire hydrants or associated hydrant hose houses shown in Table 3.7-5 inoperable, within 1 hour have sufficient additional lengths of 2-1/2-inch diameter hose located in an adjacent OPERABLE hydrant hose house to provide service to the unprotected area(s) if the inoperable fire hose is the primary means of fire suppression; otherwise, provide the additional hose within 24 hours.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.5 Each of the yard fire hydrants and associated hydrant hose houses shown in Table 3.7-5 shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the hydrant hose house to assure all required equipment is at the hose house.
- b. At least once per 12 months by:
 1. Conducting a hose hydrostatic test at a pressure of 150 psig or at least 50 psig above maximum fire main operating pressure, whichever is greater.
 2. Inspecting all the gaskets and replacing any degraded gaskets in the couplings.
 3. Performing a flow check of each hydrant to verify its OPERABILITY.
 4. Visually inspecting each yard fire hydrant and verifying that the hydrant barrel and the hydrant are not damaged.

Existing

TABLE 3.7-5

YARD FIRE HYDRANTS AND ASSOCIATED HYDRANT HOSE HOUSES

<u>LOCATION</u>	<u>HYDRANT NUMBER</u>
Northeast Side RAB	4
Northeast Corner FHB	6
Northwest Corner FHB	7
Northeast Corner Service Building	9

Existing

PLANT SYSTEMS

3/4.7.11 FIRE RATED ASSEMBLIES

LIMITING CONDITION FOR OPERATION

3.7.11 All fire rated assemblies (walls, floor/ceilings, cable tray enclosures, and other fire barriers) separating safety-related fire areas or separating portions of redundant systems important to safe shutdown within a fire area and all sealing devices in fire rated assembly penetrations (fire doors, fire windows, fire dampers, cable, piping, and ventilation duct penetration seals) shall be OPERABLE.

APPLICABILITY: At all times.

ACTION:

- a. With one or more of the above required fire rated assemblies and/or sealing devices inoperable, within 1 hour either establish a continuous fire watch on at least one side of the affected assembly, or verify the OPERABILITY of the fire detectors on at least one side of the inoperable assembly and establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.11.1 At least once per 18 months the above required fire rated assemblies and penetration sealing devices other than fire doors shall be verified OPERABLE by:

- a. Performing a visual inspection of the exposed surfaces of each fire rated assembly.
- b. Performing a visual inspection of each fire window/fire damper/ and associated hardware.
- c. Performing a visual inspection of at least 10% of each type of sealed penetration. If apparent changes in appearance or abnormal degradations are found, a visual inspection of an additional 10% of each type of sealed penetration shall be made. This inspection process shall continue until a 10% sample with no apparent changes in appearance or abnormal degradation is found. Samples shall be selected such that each penetration seal will be inspected at least once per 15 years.

Existing

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4.7.11.2 Each of the above required fire doors shall be verified OPERABLE by inspecting the automatic hold-open, release, and closing mechanism and latches at least once per 6 months, and by verifying:

- a. The OPERABILITY of the fire door supervision system for each electrically supervised fire door by performing a CHANNEL FUNCTIONAL TEST at least once per 31 days.
- b. That each locked-closed fire door is closed at least once per 7 days.
- c. That doors with automatic hold-open and release mechanisms are free of obstructions at least once per 24 hours and performing a functional test of these mechanisms at least once per 18 months.
- d. That each unlocked fire door without electrical supervision is closed at least once per 24 hours.

Existing
:

INSTRUMENTATION

BASES

for the system is thus based on testing and operating experience, and the setpoint is set at the lowest achievable IDLH gas concentration providing reliable operation and the optimum detection of toxic gases. The setpoint is therefore subject to change wherein necessitated by operating experience such as a result of changes in the Waterford 3 area chemical atmospheric profile. The setpoint is established and controlled by procedure.

3/4.3.3.8 FIRE DETECTION INSTRUMENTATION

OPERABILITY of the fire detection instrumentation ensures that adequate warning capability is available for the prompt detection of fires. This capability is required in order to detect and locate fires in their early stages. Prompt detection of fires will reduce the potential for damage to safety-related equipment and is an integral element in the overall facility fire protection program.

In the event that a portion of the fire detection instrumentation is inoperable, the establishment of frequent fire patrols in the affected areas is required to provide detection capability until the inoperable instrumentation is restored to OPERABILITY.

3/4.3.3.9 LOOSE-PART DETECTION INSTRUMENTATION

The OPERABILITY of the loose-part detection instrumentation ensures that sufficient capability is available to detect loose metallic parts in the primary system and avoid or mitigate damage to primary system components. The allowable out-of-service times and Surveillance Requirements are consistent with the recommendations of Regulatory Guide 1.133, "Loose-Part Detection Program for the Primary System of Light-Water-Cooled Reactors," May 1981.

Existing

PLANT SYSTEMS

BASES

3/4.7.9 SEALED SOURCE CONTAMINATION

The limitations on removable contamination for sources requiring leak testing, including alpha emitters, is based on 10 CFR 70.39(c) limits for plutonium. This limitation will ensure that leakage from byproduct, source, and special nuclear material sources will not exceed allowable intake values.

Sealed sources are classified into three groups according to their use, with Surveillance Requirements commensurate with the probability of damage to a source in that group. Those sources which are frequently handled are required to be tested more often than those which are not. Sealed sources which are continuously enclosed within a shielded mechanism (i.e. sealed sources within radiation monitoring or boron measuring devices) are considered to be stored and need not be tested unless they are removed from the shield mechanism.

3/4.7.10 FIRE SUPPRESSION SYSTEMS

The OPERABILITY of the fire suppression systems ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The fire suppression system consists of the water system, spray and/or sprinklers, Halon, fire hose stations, and yard fire hydrants. The collective capability of the fire suppression systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility fire protection program.

In the event that portions of the fire suppression systems are inoperable, alternate backup fire fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service. When the inoperable fire fighting equipment is intended for use as a backup means of fire suppression, a longer period of time is allowed to provide an alternate means of fire fighting than if the inoperable equipment is the primary means of fire suppression.

The Surveillance Requirements provide assurance that the minimum OPERABILITY requirements of the fire suppression systems are met. An allowance is made for ensuring a sufficient volume of Halon in the Halon storage tanks by verifying either the weight or the level of the tanks. Level measurements are made by either a U.L. or F.M. approved method.

In the event the fire suppression water system becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant.

Existing

PLANT SYSTEMS

BASES

3/4.7.11 FIRE RATED ASSEMBLIES

The OPERABILITY of the fire barriers and barrier penetrations ensure that fire damage will be limited. These design features minimize the possibility of a single fire involving more than one fire area prior to detection and extinguishment. The fire barriers, fire barrier penetrations for conduits, cable trays and piping, fire windows, fire dampers, and fire doors are periodically inspected to verify their OPERABILITY.

3/4.7.12 ESSENTIAL SERVICES CHILLED WATER SYSTEM

The OPERABILITY of the essential services chilled water system ensures that sufficient chilled water is supplied to those air handling systems which cool spaces containing equipment required for safety-related operations and, during normal plant operation, the nonessential spaces.

Existing

ADMINISTRATIVE CONTROLS

UNIT STAFF (Continued)

- b. At least one licensed Operator shall be in the control room when fuel is in the reactor. In addition, while the reactor is in MODE 1, 2, 3, or 4, at least one licensed Senior Operator shall be in the control room.
- c. A Health Physics Technician* shall be on site when fuel is in the reactor;
- d. All CORE ALTERATIONS shall be observed and directly supervised by either a licensed Senior Reactor Operator or Senior Reactor Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation.
- e. A site fire brigade of at least five members shall be maintained on site at all times.* The fire brigade shall not include the Shift Supervisor, the Shift Technical Advisor, nor the two other members of the minimum shift crew necessary for safe shutdown of the unit and any personnel required for other essential functions during a fire emergency.
- f. Administrative procedures shall be developed and implemented to limit the working hours of individuals of the nuclear power plant operating staff who are responsible for manipulating plant controls or for adjusting on-line systems and equipment affecting plant safety which would have an immediate impact on public health and safety.

Adequate shift coverage shall be maintained without routine heavy use of overtime. The objective shall be to have operating personnel work a normal 8-hour day, 40-hour week while the plant is operating. However, in the event that unforeseen problems require substantial amounts of overtime to be used, the following guidelines shall be followed:

1. An individual shall not be permitted to work more than 16 hours straight, excluding shift turnover time.
2. An individual shall not be permitted to work more than 16 hours in any 24-hour period, nor more than 24 hours in any 48-hour period, nor more than 72 hours in any 7-day period, all excluding shift turnover time.
3. A break of at least 8 hours shall be allowed between work periods, including shift turnover time.

*The Health Physics Technician and fire brigade composition may be less than the minimum requirements for a period of time not to exceed 2 hours, in order to accommodate unexpected absence, provided immediate action is taken to fill the required positions.

Existing

ADMINISTRATIVE CONTROLS

UNIT STAFF (Continued)

4. Except during extended shutdown periods, the use of overtime shall be considered on an individual basis and not for the entire staff on a shift.

Any deviation from the above guidelines shall be authorized by the Plant Manager, the assistant Plant Managers, the Operations Superintendent or higher levels of management, in accordance with established procedures and with documentation of the basis for granting the deviation. Controls shall be included in the procedures such that individual overtime will be reviewed monthly by the Plant Manager or his designee to assure that excessive hours have not been assigned. Routine deviation from the above guidelines is not authorized.

- g. The Operations Superintendent shall hold a senior reactor operator license.

Existing

ADMINISTRATIVE CONTROLS

RESPONSIBILITIES (Continued)

- g. Review of unit operations to detect potential hazards to nuclear safety.
- h. Performance of special reviews, investigations, or analyses and reports thereon as requested by the Plant Manager or the Safety Review Committee.
- i. Review of the Security Plan and implementing procedures and submittal of recommended changes to the Safety Review Committee.
- j. Review of the Emergency Plan and implementing procedures and submittal of recommended changes to the Safety Review Committee.
- k. Review and documentation of judgment concerning prolonged operation in bypass, channel trip, and/or repair of defective protection channels of process variables placed in bypass since the last PORC meeting.
- l. Review of proposed modifications to the CPC addressable constants based on information obtained through the Plant Computer-CPC data link.
- m. Review of any accidental, unplanned or uncontrolled radioactive release including reports covering evaluation, recommendations and disposition of the corrective action to prevent recurrence and the forwarding of these reports to the Vice President-Nuclear and to the Safety Review Committee.
- n. Review of changes to the PROCESS CONTROL PROGRAM and the OFFSITE DOSE CALCULATION MANUAL, and major changes to radwaste treatment systems.

AUTHORITY

6.5.1.7 The PORC shall:

- a. Recommend in writing to the Plant Manager, prior to implementation except as provided in Specification 6.8.3, approval or disapproval of items considered under Specification 6.5.1.6a. through d. and l.
- b. Render determinations in writing, prior to implementation except as provided in Specification 6.8.3, with regard to whether or not each item considered under Specification 6.5.1.6a. through e. constitutes an unreviewed safety question.
- c. Provide written notification within 24 hours to the Vice President-Nuclear and the Safety Review Committee of disagreements between the PORC and the Plant Manager; however, the Plant Manager shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1.

NPF-38-87

ATTACHMENT B

Proposed

- 5 -

9. Fire Protection (Section 9.5.1, SSER 8)

implement and

delete

a. The licensee shall maintain in effect all provisions of the approved fire protection program as described in the Final Safety Analysis Report for the facility through Amendment 36 and as approved in the SER through Supplement 9, subject to provisions b & c below. *the following provisions:*

Add

- b. The licensee may make no change to features of the approved fire protection program which would decrease the level of fire protection in the plant without prior approval of the Commission. To make such a change the licensee must submit an application for license amendment pursuant to 10 CFR 50.90.
- c. The licensee may make changes to features of the approved fire protection program which do not decrease the level of fire protection without prior Commission approval, provided:
 - (1) such changes do not otherwise involve a change in a license condition or technical specification or result in an unreviewed safety question (see 10 CFR 50.59).
 - (2) such changes do not result in failure to complete the fire protection program approved by the Commission prior to license issuance.

The licensee shall maintain, in an auditable form, a current record of all such changes including an analysis of the effects of the change on the fire protection program and shall make such records available to NRC inspectors upon request. All changes to the approved program made without prior Commission approval shall be reported annually to the Director of the Office of Nuclear Reactor Regulation, together with supporting analyses.

- d. The licensee shall provide smoke detectors in the Control Room main control panels, which are installed in accordance with NFPA 72E, prior to startup following the first refueling outage.
- e. The licensee shall complete modifications resulting from its spurious signal analysis prior to startup following the first refueling outage, but in any case not later than June 1, 1987.

The licensee may make changes to the approved fire protection program without prior approval of the Commission only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

- ~~f. The licensee shall provide neutron flux indication at LCP-43 which is electrically independent of the control room and cable vault prior to start-up following the first refueling outage, but in any case not later than June 1, 1987.~~
- ~~g. The licensee shall provide a continuous fire watch in the relay room at the isolation panel from initial criticality until acceptable resolution of adverse effects, if any, of the loss of this panel on safe shutdown.~~

10. Post-Fuel-Loading Initial Test Program (Section 14, SSER 10)

Any changes to the Initial Test Program described in Section 14 of the FSAR made in accordance with the provisions of 10 CFR 50.59 shall be reported in accordance with 50.59(b) within one month of such change.

11. Emergency Response Capabilities (Section 22, SSER 8)

The licensee shall comply with the requirements of Supplement 1 to NUREG-0737 for the conduct of a Detailed Control Room Design Review (DCRDR). Prior to May 1, 1985, the licensee shall submit for staff review and approval the DCRDR Summary Report, including a description of the process used in carrying out the function and task analysis performed as a part of both the DCRDR and the Procedures Generation Package efforts.

12. Reactor Coolant System (RCS) Depressurization Capability (Section 5.4.3, SSER 8)

By June 18, 1985, the licensee shall submit the results of confirmatory tests regarding the depressurization capability of the auxiliary pressurizer spray (APS) system. This information must demonstrate that the APS system can perform the necessary depressurization to meet the steam generator single-tube rupture accident acceptance criteria (SRP 15.6.3) with loop charging isolation valve failed open. Should the test results fail to demonstrate that the acceptance criteria are met, the licensee must provide for staff review and approval, justification for interim operation, and a schedule for corrective actions.

13. Response to Salem ATWS Event (Section 7.2.9, SSER 8)

The licensee shall submit responses and implement the requirements of Generic Letter 83-28 on a schedule which is consistent with that given in the licensee's letter of May 30, 1984.

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INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.8 As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 3.3-11 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the fire detection instrument is required to be OPERABLE.

ACTION:

- a. With any, but not more than one-half the total in any fire zone Function A fire detection instruments shown in Table 3.3-11 inoperable except for the annulus, restore the inoperable instrument(s) to OPERABLE status within 14 days or within the next 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- b. With more than one-half of the Function A fire detection instruments in any fire zone shown in Table 3.3-11 inoperable except for the annulus, or with any Function B fire detection instruments shown in Table 3.3-11 inoperable, or with any two or more adjacent fire detection instruments shown in Table 3.3-11 inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- c. With both annulus detection instruments inoperable, restore at least 1 detector to operable status or within the next 1 hour establish a fire watch patrol to inspect the zone at least once per eight hours.*
- d. The provisions of Specification 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.8.1 Each of the above required fire detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months by performance of a CHANNEL FUNCTIONAL TEST. Fire detectors which are not accessible during plant operation shall be demonstrated OPERABLE by the performance of a CHANNEL FUNCTIONAL TEST during each COLD SHUTDOWN exceeding 24 hours unless performed in the previous 6 months.

4.3.3.8.2 The NFPA Standard 720 supervised circuits supervision associated with the detector alarms of each of the above required fire detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months. Circuits which are not accessible during plant operation shall be demonstrated OPERABLE during each COLD SHUTDOWN exceeding 24 hours unless performed in the previous 6 months.

* Fire watch patrol may be temporarily suspended during performance of Specification 4.6.6.1.a.

Proposed

INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

SURVEILLANCE REQUIREMENTS (Continued)

4.3.3.8.3 The nonsupervised circuits associated with detector alarms between the instrument and the control room shall be demonstrated OPERABLE at least once per 31 days.

4.3.3.8.4 Each of the resistor wires required by Table 3.3-11 shall be demonstrated OPERABLE at least once per 6 months by verifying the proper wire resistance.

Proposed
 TABLE 3.3-11
 FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
1. REACTOR AUXILIARY BUILDING					
RAB 1A	Main Control Panels 1,2,3,4,6,7,8,35,36	+46			10/0
RAB 1A	Control Room Proper/304	+46			20/0
RAB 1B	Emergency Equip. H&V Room/314	+46			0/12
RAB 1D	Computer Room (above raised floor)/306	+46			5/0
	Computer Room (below raised floor)/306	+46			0/7
RAB 2	Ventilation Equip. Room/299	+46			0/35
RAB 3	RAB Corridor to Relay Room/261	+35	0/1(3)		4/0
	RAB HVAC Switchgear Equip. Room/323	+46			0/10
RAB 3A	RAB Battery Exhaust Fan Room/406	+69			0/2
RAB 4	Cable Vault/260	+35			0/27
RAB 5	Electrical Penetration Area "A"/263	+35			0/13
RAB 6	Electrical Penetration Area "B"/263A	+35			0/14
RAB 7	Relay Room/262	+35	(3)		12/0
	Isolation Panels (9 Compartments - 2 per comp.)	+35			2/0
RAB 8A	High Voltage Switchgear Room "A"/212A	+21	0/1(1)		18/0
RAB 8B	Electrical Equip. Room/225B and High Voltage Switchgear Room "B"/212	+21	0/1(2)		28/0
	480V Switchgear 3A32 Room	+21	(2)		2/0
RAB 8C	High Voltage Switchgear Room "A-B"/212B	+21	(1)		8/0
RAB 8E	CEA M/G: Set Room/216	+21			2/0
RAB 9	Remote Shutdown Panel Room/217	+21			1/0
RAB 11	Battery Room "B"/213	+21			2/0
RAB 12	Battery Room "AB"/214A	+21			2/0
RAB 13	Battery Room "A"/214	+21			2/0
RAB 15	Emergency Diesel Gen. "B" Room/222	+21	0/1		
RAB 15A	Emergency Diesel Gen. "B" Feed TK Room/328A	+46	0/1		
RAB 16	Emergency Diesel Gen. "A" Room/221	+21	0/1		
RAB 16A	Emergency Diesel Gen. "A" Feed Tk. Room 328A	+46	0/1		
RAB 17	CCW Heat Exchanger "B"/236	+21			0/4
RAB 18	CCW Heat Exchanger "A"/220	+21			0/4
RAB 19	CCW Pump "A"/235	+21			0/2
RAB 20	CCW Pump "AB"/234	+21			0/2
RAB 21	CCW Pump "B"/233	+21			1/0
RAB 23	Corridor to CCW Pumps/218, Corridor to CCW Heat Exchangers/219 and Corridor to Emergency Diesel Gen./225A	+21			0/39

(1) Common Resistor Wire
 (2) Common Resistor Wire
 (3) Common Resistor Wire
 WATERFORD - UNIT 3

Proposed

TABLE 3.3-11 (Continued)
FIRE DETECTION INSTRUMENTS

<u>ZONE</u>	<u>ROOM NAME/NUMBER</u>	<u>ELEVATION</u> (<u>'t</u>)	<u>TOTAL NUMBER OF INSTRUMENTS*</u>		
			<u>HEAT</u> (<u>x/y</u>)	<u>FLAME</u> (<u>x/y</u>)	<u>SMOKE</u> (<u>x/y</u>)
1. REACTOR AUXILIARY BUILDING (Continued)					
RAB 25	Equip. Access Area/226 (wing area)	+21			15/0
RAB 27A	H&V Room/124	+ 7			0/6
RAB 27B	Electrical Area and Health Physics Offices/122	+ 7			0/35
RAB 27C	I&C Room/120	+ 7			0/6
RAB 27D	Communications Equip. Room/123	+ 7			1/0
RAB 31	Corridors and Passageways	- 4			0/24
	Corridors on eastside	- 4			0/21
RAB 32	Wing Area westside - Auxiliary Com- ponent Cooling Water Pump "A"/853 and Pipe Penetration Area/8100	-35 & - 4			32/0
	Wing Area Center/853 and 8100	-35 & - 4			28/0
	Wing Area eastside-Component Cooling Water Pump "B"/853 and Pipe Penetration Area/8100	-35 - 4			31/0
RAB 33	S/D Cooling Heat Exchangers A&B/820 & 848	-35			0/18
RAB 34	Valve Operating Enclosure Bay Room "A"/854	-15.5			2/0
	Valve Operating Enclosure Bay Room "B" 855A	-15.5			4/0
RAB 35	Safety Injection Pump Room B/816	-35			10/0
RAB 36	Safety Injection Pump Room A/815	-35			10/0
RAB 37	Motor-Driven Emergency Feedpump "A"/849A	-35			0/1
RAB 38	Motor-Driven Emergency Feedpump "B"/849B	-35			1/0
RAB 39	General Equipment Area/85, 12, 13, & 49	-35			0/10
	Corridors & General Equip. Areas/85, 1, 2, 3, 4, 39, 40, 41, 42, 44 & 46	-35			0/28
	East Corridor & General Equip. Areas/ 817, 23 & 25	-35			0/15
	8A Make-up Tank "A"/838	-35			4/0
	8A Make-up Tank "B"/853A	-35			4/0
RAB 40	Diesel Storage Tank "A"/850	-35			3/0
RAB 41	Diesel Storage Tank "B"/852	-35			3/0

Proposed

TABLE 3.3-11 (Continued)
FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
2. REACTOR CONTAINMENT BUILDING**					
RCB 1	Annulus/420***	+46			2/0
RCB 2	Electrical Penetration Area A	+21			24/0
RCB 3	Electrical Penetration Area B	+21			21/0
RCB 4	Reactor Cable Trays	+46			16/0
CT 1&3	Wet & Dry Cooling Tower "A" Cable Tray		1/0		
CT 2&4	Wet & Dry Cooling Tower "B" Cable Tray		1/0		
3. FUEL HANDLING BUILDING					
FHB 2	Purification Pump Room/B155, Fuel Pool Pump "A"/B157, Fuel Pool Pump "B"/ B156, Fuel Pool Heater Exchanger/ B158 and Access Area/B-161	+ 1			10/0
	Emergency Filter Train Unit/B152	+ 1			6/0
	Emergency Elect. Equip. Room/B151	+ 1			1/0
4. CHARCOAL AIR FILTER UNITS					
E-35 (3A-SA)	FHB Emergency Filter Train "A"	+ 1	1/0		
E-35 (3B-SB)	FHB Emergency Filter Train "B"	+ 1	1/0		
E-17 (3A-SA)	Shield Building Ventilation System Filter Train "A"	+46	1/0		
E-17 (3B-SB)	Shield Building Ventilation System Filter Train "B"	+46	1/0		
E-23 (3A-SA)	Controlled Ventilation Area System Filter Train "A"	+46	1/0		
E-23 (3A-SB)	Controlled Ventilation Area System Filter Train "B"	+46	1/0		
S-8 (3A-SA)	Control Room Emergency Filter Train "A"	+46	1/0		
S-8 (3B-SB)	Control Room Emergency Filter Train "B"	+46	1/0		

TABLE NOTATIONS

*(x/y): x is the number of Function A (early warning fire detection and notification only) instruments.
y is the number of Function B (actuation of fire suppression systems and early warning and notification) instruments.

**The fire detection instruments located within the containment are not required to be OPERABLE during the performance of Type A containment leakage rate tests.

***Annulus detection is provided by smoke detectors mounted on the duct of the Annulus Negative Pressure System. This segment of duct is physically located in the RAB H&V Equipment Room (299).

Proposed

PLANT SYSTEMS

3/4.7.10 FIRE SUPPRESSION SYSTEMS

FIRE SUPPRESSION WATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.10.1 The fire suppression water system shall be OPERABLE with:

- a. Two fire suppression pumps, each with a capacity of 2000 gpm, with their discharge aligned to the fire suppression header,
- b. Separate water supplies, each with a minimum contained volume of 237,000 gallons (33 feet), and
- c. An OPERABLE flow path capable of taking suction from the east fire water tank and the west fire water tank and transferring the water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant curb valves, the last valve ahead of the water flow alarm device on each sprinkler or hose standpipe, and the last valve ahead of the deluge valve on each deluge or spray system required to be OPERABLE per Specifications 3.7.10.2, 3.7.10.4, and 3.7.10.5.

APPLICABILITY: At all times.

ACTION:

- a. With one pump and/or one water supply inoperable, restore at least two pumps and/or water supplies to OPERABLE status within 7 days or provide an alternate backup pump or supply.
- b. With the fire suppression water system otherwise inoperable, establish a backup fire suppression water system within 24 hours.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.1.i The fire suppression water system shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying the contained water supply volume.
- b. At least once per 31 days by starting the electric motor-driven pump and operating it for at least 15 minutes.
- c. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position.

Proposed

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- d. At least once per 12 months by performance of a system flush.
- e. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- f. At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:
 - 1. Verifying that each pump develops at least 2000 gpm at a total head of 100 psid by verifying at least 3 points on the pump performance curve during performance testing.
 - 2. Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and
 - 3. Verifying that each fire suppression pump starts (sequentially) to maintain the fire suppression water system pressure greater than or equal to 96.5 psig.
- g. At least once per 3 years by performing a flow test of the system in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association.

4.7.10.1.2 Each fire pump diesel engine shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying:
 - 1. The diesel fuel oil day storage tank contains at least 170 gallons of fuel, and
 - 2. The diesel starts from ambient conditions and operates for at least 30 minutes.
- b. At least once per 92 days by verifying that a sample of diesel fuel from the fuel storage tank, obtained in accordance with ASTM-D270-75, is within the acceptable limits specified in Table 1 of ASTM D975-77 when checked for viscosity, water and sediment.
- c. At least once per 18 months during shutdown, by subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service.

PLANT SYSTEMS

Proposed

SURVEILLANCE REQUIREMENTS (Continued)

4.7.10.1.3 Each fire pump diesel starting 12-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
 - 1. The electrolyte level of each battery is above the plates, and
 - 2. The overall battery voltage is greater than or equal to 12 volts.
- b. At least once per 92 days by verifying that the specific gravity is appropriate for continued service of the battery.
- c. At least once per 18 months by verifying that:
 - 1. The batteries and battery racks show no visual indication of physical damage or abnormal deterioration, and
 - 2. The battery-to-battery and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material.

Proposed

PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.10.2 The following spray and/or sprinkler systems shall be OPERABLE:

<u>Sprinkler No.</u>	<u>Bldg./Elev.</u>	<u>Location</u>
FPM-1	RCB	Reactor Coolant Pumps 1A, 1B
FPM-2	RCB	Reactor Coolant Pump 2A, 2B
FPM-3A	RAB +21, +46	Diesel Generator Area A, Feed Tank Room A
FPM-4B	RAB +21, +46	Diesel Generator Area B, Feed Tank Room B
FPM-11A	RAB -35	Emergency D/G Fuel Oil Tank A
FPM-11B	RAB -35	Emergency D/G Fuel Oil Tank B
FPM-16	FWPH +15	Fire Water Pump House
FPM-17	RAB +35	Cable Vault Area
FPM-18	RAB +35	Electrical Penetration Area 1
FPM-19	RAB +35	Electrical Penetration Area 2
FPM-22	RAB -4	Corridor and Blowdown Tank Rooms
FPM-23	RAB -35	Corridor, Shutdown Heat Exchanger Rooms, EFW Pump Room
FPM-24	RAB +21	Corridors, CCW Area
FPM-25	RAB +21	North High Voltage Switchgear Room
FPM-26	RAB +46	Ventilation Equipment Rooms
FPM-27	RAB +7	HVAC Rooms
FPM-28	RAB -35	Auxiliary Component Cooling Water Pump Rooms
FPM-29	RAB +35	Relay Room, Corridor
FPM-30A	RAB +21	South High Voltage Switchgear Room
FPM-33	RAB +46	E-17(3A-SA) Shield Building Ventilation System Filter, Train A Charcoal Adsorber
FPM-34	RAB +46	E-17(3B-SB) Shield Building Ventilation System Filter, Train B Charcoal Adsorber
FPM-36	RAB +46	E-23(3A-SA) Controlled Ventilation Area System Filter, Train A Charcoal Adsorber
FPM-37	RAB +46	E-23(3B-SB) Controlled Ventilation Area System Filter, Train B Charcoal Adsorber

APPLICABILITY: Whenever equipment protected by the spray/sprinkler system is required to be OPERABLE.

ACTION:

- With one or more of the above required spray and/or sprinkler systems inoperable, within 1 hour establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components could be damaged unless the spray and/or sprinkler system(s) is located inside the containment, then inspect that containment area at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5; for other areas, establish an hourly fire watch patrol.
- The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

Proposed

SURVEILLANCE REQUIREMENTS

4.7.10.2 Each of the above required spray and/or sprinkler systems shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position.
- b. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- c. At least once per 18 months:
 1. By performing a system functional test which includes simulated automatic actuation of the system, and:
 - a) Verifying that the automatic valves in the flow path actuate to their correct positions on a thermal/preaction test signal, and
 - b) Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
 2. By a visual inspection of the dry pipe spray and sprinkler headers to verify their integrity, and
 3. By a visual inspection of each nozzle's spray area to verify the spray pattern is not obstructed.
- d. At least once per 3 years by performing an air flow test through each open head spray and sprinkler header* system listed in Section 3.7.10.2 and verifying the spray nozzles are unobstructed.

*In lieu of an air flow test, the charcoal filter system spray nozzles need only be visually inspected and verified to be unobstructed each time the charcoal is changed.

PLANT SYSTEMS

Proposed

HALON SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.10.3 The computer room Halon system shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the Halon system is required to be OPERABLE.

ACTION:

- a. With the above required Halon system inoperable, within 1 hour establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.3 The above required Halon system shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path is in its correct position.
- b. At least once per 6 months by verifying Halon storage tank weight to be at least 95% of full charge weight (level) and pressure to be at least 90% of full charge pressure.
- c. At least once per 18 months by verifying:
 1. The system, including associated ventilation dampers and fire door release mechanisms, actuates manually and automatically, upon receipt of a simulated test signal, and
 2. Performance of a flow test through headers and nozzles to assure no blockage.

Proposed

PLANT SYSTEMS

FIRE HOSE STATIONS

LIMITING CONDITION FOR OPERATION

3.7.10.4 The fire hose stations shown in Table 3.7-4 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the areas protected by the fire hose stations is required to be OPERABLE.

ACTION:

- a. With one or more of the fire hose stations shown in Table 3.7-4 inoperable, provide gated wye(s) on the nearest operable hose station(s). One outlet of the wye shall be connected to the standard length of hose provided for the hose station. The second outlet of the wye shall be connected to a length of hose sufficient to provide coverage for the area left unprotected by the inoperable hose station. Where it can be demonstrated that the physical routing of the fire hose would result in a recognizable hazard to operating technicians, plant equipment, or the hose itself, the fire hose shall be stored in a roll at the outlet of the operable hose station. Signs shall be mounted above the gated wye(s) to identify the proper hose to use. The above action shall be accomplished within 1 hour if the inoperable fire hose is the primary means of fire suppression; otherwise, route the additional hose within 24 hours.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.4 Each of the fire hose stations shown in Table 3.7-4 shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the stations accessible during plant operation to assure all required equipment is at the station.
- b. At least once per 18 months by:
 1. Visual inspection of the stations not accessible during plant operations to assure all required equipment is at the station.
 2. Removing the hose for inspection and reracking, and
 3. Inspecting all gaskets and replacing any degraded gaskets in the couplings.

Proposed

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 3 years by:
1. Partially opening each hose station valve to verify valve OPERABILITY and no flow blockage.
 2. Conducting a hose hydrostatic test at a pressure of 150 psig or at least 50 psig above maximum fire main operating pressure, whichever is greater.

Proposed

TABLE 3.7-4

FIRE HOSE STATIONS

<u>LOCATION</u> <u>BLDG/COLUMN</u>	<u>ELEVATION (Feet MSL)</u>	<u>HOSE RACK IDENTIFICATION</u>
FHB 2FH-U	-35	FH/A-010
FHB 3FH-V	+1	FH/A-020
FHB 5FH-V	+1	FH/A-021
FHB 2FH-T	+21	FH/A-040
FHB 2FH-V	+18	FH/A-041
FHB Escape Exit	+21	FH/A-043
FHB 6FH-W	+18	FH/A-042
FHB 2FH-T	+46	FH/A-030
FHB 7FH-W	+46	FH/A-021
RAB J-9A	+35	RA/F-101
RAB J-6A	-35	RA/F-102
RAB H-4A	-35	RA/F-103
RAB J-3A	-35	RA/F-104
RAB K-4A	-35	RA/F-105
RAB M-10AZ	-35	RA/C-106
RAB M-3A	-35	RA/A-107
RAB M-2AC	-20	RA/K-108
RAB M-11AZ	-20	RA/L-109
RAB K-10A	-35	RA/F-110
RAB K-11A	-4	RA/D-201
RAB H-11A	-4	RA/D-202
RAB J-10A	-4	RA/E-203
RAB J-6A	-4	RA/H-204
RAB H-4A	-4	RA/I-205
RAB K-4A	-4	RA/J-206
RAB M-10AZ	-4	RA/C-207
RAB M-3A	-4	RA/A-208
RAB LY-8A	-4	RA/B-209
RAB K12A	+7	RA/D-301
RAB J11A	+7	RA/D-302
RAB H-11A	+21	RA/E-401
RAB H-9A	+21	RA/E-402
RAB K-11A	+21	RA/D-403
RAB L-7A	+21	RA/C-411
RAB N-10AZ	+21	RA/C-405
RAB J-6A	+21	RA/I-406
RAB H-4A	+21	RA/I-407
RAB J-1A	+21	RA/I-408
RAB K-4A	+21	RA/J-409
RAB L-7A	+21	RA/G-410
RAB N-4A	+21	RA/A-412
RAB L-2A	+21	RA/A-413
RAB H-12A	+35	RA/E-501
RAB K-11A	+35	RA/E-502
RAB N-10AZ	+35	RA/C-503
RAB Northeast Stairwell	+21	RA/C-404

Proposed

TABLE 3.7-4 (Continued)

FIRE HOSE STATIONS

<u>LOCATION BLDG/COLUMN</u>	<u>ELEVATION (Feet MSL)</u>	<u>HOSE RACK IDENTIFICATION</u>
RAB H-10A	+35	RA/E-504
RAB K-9A	+35	RA/E-505
RAB L-9A	+35	RA/C-506
RAB LY-6A	+35	RA/A-507
RAB J-9A	+35	RA/E-508
RAB L-8A	+35	RA/E-509
RAB G-9A	+35	RA/E-510
RAB J-12A	+46	RA/E-601
RAB K-11A	+46	RA/G-602
RAB K-10A	+46	RA/G-603
RAB K-8A	+46	RA/G-604
RAB G-7A	+46	RA/G-605
RAB K-6A	+46	RA/J-606
RAB K-2A	+46	RA/J-607
RAC J-2A	+46	RA/J-608
RAB J-3A	+46	RA/J-609
RAB K-2A	+69	RA/J-701
*RCB 19	-4	R/A-201
*RCB 12	-4	R/A-202
*RCB 6	-4	R/B-203
*RCB 1	-4	R/B-204
*RCB 20	+21	R/A-401
*RCB 13	+21	R/A-402
*RCB 7	+21	R/B-403
*RCB 1	+21	R/B-404
*RCB 13	+35	R/A-502
*RCB 20	+46	R/A-601
*RCB 13	+46	R/A-602
*RCB 7	+46	R/B-603
*RCB 2	+46	R/B-604

*Indicates all hose stations not accessible during plant operations and shall be demonstrated operable at least once per 18 months.

Proposed

PLANT SYSTEMS

YARD FIRE HYDRANTS AND HYDRANT HOSE HOUSES

LIMITING CONDITION FOR OPERATION

3.7.10.5 The yard fire hydrants and associated hydrant hose houses shown in Table 3.7-5 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the areas protected by the yard fire hydrants is required to be OPERABLE.

ACTION:

- a. With one or more of the yard fire hydrants or associated hydrant hose houses shown in Table 3.7-5 inoperable, within 1 hour have sufficient additional lengths of 2-1/2-inch diameter hose located in an adjacent OPERABLE hydrant hose house to provide service to the unprotected area(s) if the inoperable fire hose is the primary means of fire suppression; otherwise, provide the additional hose within 24 hours.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.10.5 Each of the yard fire hydrants and associated hydrant hose houses shown in Table 3.7-5 shall be demonstrated OPERABLE:

- a. At least once per 31 days by visual inspection of the hydrant hose house to assure all required equipment is at the hose house.
- b. At least once per 12 months by:
 1. Conducting a hose hydrostatic test at a pressure of 150 psig or at least 50 psig above maximum fire main operating pressure, whichever is greater.
 2. Inspecting all the gaskets and replacing any degraded gaskets in the couplings.
 3. Performing a flow check of each hydrant to verify its OPERABILITY.
 4. Visually inspecting each yard fire hydrant and verifying that the hydrant barrel and the hydrant are not damaged.

Proposed

TABLE 3.7-5

YARD FIRE HYDRANTS AND ASSOCIATED HYDRANT HOSE HOUSES

<u>LOCATION</u>	<u>HYDRANT NUMBER</u>
Northeast Side RAB	4
Northeast Corner FHB	6
Northwest Corner FHB	7
Northeast Corner Service Building	9

Proposed

PLANT SYSTEMS

3/4.7.11 FIRE RATED ASSEMBLIES

LIMITING CONDITION FOR OPERATION

3.7.11 All fire rated assemblies (walls, floor/ceilings, cable tray enclosures, and other fire barriers) separating safety-related fire areas or separating portions of redundant systems important to safe shutdown within a fire area and all sealing devices in fire rated assembly penetrations (fire doors, fire windows, fire dampers, cable, piping, and ventilation duct penetration seals) shall be OPERABLE.

APPLICABILITY: At all times.

ACTION:

- a. With one or more of the above required fire rated assemblies and/or sealing devices inoperable, within 1 hour either establish a continuous fire watch on at least one side of the affected assembly, or verify the OPERABILITY of the fire detectors on at least one side of the inoperable assembly and establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.11.1 At least once per 18 months the above required fire rated assemblies and penetration sealing devices other than fire doors shall be verified OPERABLE by:

- a. Performing a visual inspection of the exposed surfaces of each fire rated assembly.
- b. Performing a visual inspection of each fire window/fire damper/ and associated hardware.
- c. Performing a visual inspection of at least 10% of each type of sealed penetration. If apparent changes in appearance or abnormal degradations are found, a visual inspection of an additional 10% of each type of sealed penetration shall be made. This inspection process shall continue until a 10% sample with no apparent changes in appearance or abnormal degradation is found. Samples shall be selected such that each penetration seal will be inspected at least once per 15 years.

Proposed

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4.7.11.2 Each of the above required fire doors shall be verified OPERABLE by inspecting the automatic hold-open, release, and closing mechanism and latches at least once per 6 months, and by verifying:

- a. The OPERABILITY of the fire door supervision system for each electrically supervised fire door by performing a CHANNEL FUNCTIONAL TEST at least once per 31 days.
- b. That each locked-closed fire door is closed at least once per 7 days.
- c. That doors with automatic hold-open and release mechanisms are free of obstructions at least once per 24 hours and performing a functional test of these mechanisms at least once per 18 months.
- d. That each unlocked fire door without electrical supervision is closed at least once per 24 hours.

Proposed

INSTRUMENTATION

BASES

for the system is thus based on testing and operating experience, and the setpoint is set at the lowest achievable IDLH gas concentration providing reliable operation and the optimum detection of toxic gases. The setpoint is therefore subject to change wherein necessitated by operating experience such as a result of changes in the Waterford 3 area chemical atmospheric profile. The setpoint is established and controlled by procedure.

3/4.3.3.8 FIRE DETECTION INSTRUMENTATION

OPERABILITY of the fire detection instrumentation ensures that adequate warning capability is available for the prompt detection of fires. This capability is required in order to detect and locate fires in their early stages. Prompt detection of fires will reduce the potential for damage to safety-related equipment and is an integral element in the overall facility fire protection program.

In the event that a portion of the fire detection instrumentation is inoperable, the establishment of frequent fire patrols in the affected areas is required to provide detection capability until the inoperable instrumentation is restored to OPERABILITY.

3/4.3.3.9 LOOSE-PART DETECTION INSTRUMENTATION

The OPERABILITY of the loose-part detection instrumentation ensures that sufficient capability is available to detect loose metallic parts in the primary system and avoid or mitigate damage to primary system components. The allowable out-of-service times and Surveillance Requirements are consistent with the recommendations of Regulatory Guide 1.133, "Loose-Part Detection Program for the Primary System of Light-Water-Cooled Reactors," May 1981.

This section deleted

Proposed

PLANT SYSTEMS

BASES

3/4.7.9 SEALED SOURCE CONTAMINATION

The limitations on removable contamination for sources requiring leak testing, including alpha emitters, is based on 10 CFR 70.39(c) limits for plutonium. This limitation will ensure that leakage from byproduct, source, and special nuclear material sources will not exceed allowable intake values.

Sealed sources are classified into three groups according to their use, with Surveillance Requirements commensurate with the probability of damage to a source in that group. Those sources which are frequently handled are required to be tested more often than those which are not. Sealed sources which are continuously enclosed within a shielded mechanism (i.e. sealed sources within radiation monitoring or boron measuring devices) are considered to be stored and need not be tested unless they are removed from the shield mechanism.

3/4.7.10 FIRE SUPPRESSION SYSTEMS

The OPERABILITY of the fire suppression systems ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The fire suppression system consists of the water system, spray and/or sprinklers, Halon, fire hose stations, and yard fire hydrants. The collective capability of the fire suppression systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility fire protection program.

In the event that portions of the fire suppression systems are inoperable, alternate backup fire fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service. When the inoperable fire fighting equipment is intended for use as a backup means of fire suppression, a longer period of time is allowed to provide an alternate means of fire fighting than if the inoperable equipment is the primary means of fire suppression.

The Surveillance Requirements provide assurance that the minimum OPERABILITY requirements of the fire suppression systems are met. An allowance is made for ensuring a sufficient volume of Halon in the Halon storage tanks by verifying either the weight or the level of the tanks. Level measurements are made by either a U.L. or F.M. approved method.

In the event the fire suppression water system becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant.

This section deleted

Proposed

PLANT SYSTEMS

BASES

3/4.7.11 FIRE RATED ASSEMBLIES

INSERT → The OPERABILITY of the fire barriers and barrier penetrations ensure that fire damage will be limited. These design features minimize the possibility of a single fire involving more than one fire area prior to detection and extinguishment. The fire barriers, fire barrier penetrations for conduits, cable trays and piping, fire windows, fire dampers, and fire doors are periodically inspected to verify their OPERABILITY.

3/4.7.12 ESSENTIAL SERVICES CHILLED WATER SYSTEM

The OPERABILITY of the essential services chilled water system ensures that sufficient chilled water is supplied to those air handling systems which cool spaces containing equipment required for safety-related operations and, during normal plant operation, the nonessential spaces.

This section deleted

ADMINISTRATIVE CONTROLS

UNIT STAFF (Continued)

- b. At least one licensed Operator shall be in the control room when fuel is in the reactor. In addition, while the reactor is in MODE 1, 2, 3, or 4, at least one licensed Senior Operator shall be in the control room.
- c. A Health Physics Technician* shall be on site when fuel is in the reactor;
- d. All CORE ALTERATIONS shall be observed and directly supervised by either a licensed Senior Reactor Operator or Senior Reactor Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation.

delete

e. A site fire brigade of at least five members shall be maintained on site at all times.* The fire brigade shall not include the Shift Supervisor, the Shift Technical Advisor, nor the two other members of the minimum shift crew necessary for safe shutdown of the unit and any personnel required for other essential functions during a fire emergency.

e.f.

Administrative procedures shall be developed and implemented to limit the working hours of individuals of the nuclear power plant operating staff who are responsible for manipulating plant controls or for adjusting on-line systems and equipment affecting plant safety which would have an immediate impact on public health and safety.

Adequate shift coverage shall be maintained without routine heavy use of overtime. The objective shall be to have operating personnel work a normal 8-hour day, 40-hour week while the plant is operating. However, in the event that unforeseen problems require substantial amounts of overtime to be used, the following guidelines shall be followed:

1. An individual shall not be permitted to work more than 16 hours straight, excluding shift turnover time.
2. An individual shall not be permitted to work more than 16 hours in any 24-hour period, nor more than 24 hours in any 48-hour period, nor more than 72 hours in any 7-day period, all excluding shift turnover time.
3. A break of at least 8 hours shall be allowed between work periods, including shift turnover time.

*The Health Physics Technician and fire brigade composition may be less than the minimum requirements for a period of time not to exceed 2 hours, in order to accommodate unexpected absence, provided immediate action is taken to fill the required positions.

ADMINISTRATIVE CONTROLS

UNIT STAFF (Continued)

4. Except during extended shutdown periods, the use of overtime shall be considered on an individual basis and not for the entire staff on a shift.

Any deviation from the above guidelines shall be authorized by the Plant Manager, the assistant Plant Managers, the Operations Superintendent or higher levels of management, in accordance with established procedures and with documentation of the basis for granting the deviation. Controls shall be included in the procedures such that individual overtime will be reviewed monthly by the Plant Manager or his designee to assure that excessive hours have not been assigned. Routine deviation from the above guidelines is not authorized.

- f. g. The Operations Superintendent shall hold a senior reactor operator license.

6. Review of the Fire Protection Program and implementing procedures and submittal of recommended changes to the Safety Review Committee.

Proposed

ADMINISTRATIVE CONTROLS

RESPONSIBILITIES (Continued)

- g. Review of unit operations to detect potential hazards to nuclear safety.
- h. Performance of special reviews, investigations, or analyses and reports thereon as requested by the Plant Manager or the Safety Review Committee.
- i. Review of the Security Plan and implementing procedures and submittal of recommended changes to the Safety Review Committee.
- j. Review of the Emergency Plan and implementing procedures and submittal of recommended changes to the Safety Review Committee.
- k. Review and documentation of judgment concerning prolonged operation in bypass, channel trip, and/or repair of defective protection channels of process variables placed in bypass since the last PORC meeting.
- l. Review of proposed modifications to the CPC addressable constants based on information obtained through the Plant Computer-CPC data link.
- m. Review of any accidental, unplanned or uncontrolled radioactive release including reports covering evaluation, recommendations and disposition of the corrective action to prevent recurrence and the forwarding of these reports to the Vice President-Nuclear and to the Safety Review Committee.
- n. Review of changes to the PROCESS CONTROL PROGRAM and the OFFSITE DOSE CALCULATION MANUAL, and major changes to radwaste treatment systems.

Add

AUTHORITY

6.5.1.7 The PORC shall:

- a. Recommend in writing to the Plant Manager, prior to implementation except as provided in Specification 6.8.3, approval or disapproval of items considered under Specification 6.5.1.6a. through d. and l.
- b. Render determinations in writing, prior to implementation except as provided in Specification 6.8.3, with regard to whether or not each item considered under Specification 6.5.1.6a. through e. constitutes an unreviewed safety question.
- c. Provide written notification within 24 hours to the Vice President-Nuclear and the Safety Review Committee of disagreements between the PORC and the Plant Manager; however, the Plant Manager shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1.