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INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.7.9 As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 3.3.7.9-1 shall be OPERABLE.

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

ACTION:

- a. With the number of OPERABLE fire detection instruments in one or more zones:
 1. Less than, but more than one-half of, the Total Number of Instruments shown in Table 3.3.7.9-1 for Function A, restore the inoperable Function A instrument(s) to OPERABLE status within 14 days or within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour.
 2. One less than the Total Number of Instruments shown in Table 3.3.7.9-1 for Function 8, or one-half or less of the Total Number of Instruments shown in Table 3.3.7.9-1 for Function A, or with any two or more adjacent instruments inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.7.9.1 Each of the above required fire detection instruments which are accessible during unit 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 unit 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.

4.3.7.9.2 The NFPA Standard 72D supervised circuits supervision associated with the detector alarms of each of the above required fire detection instruments shall be demonstrated OPERABLE at least once per 6 months.

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TABLE 3.3.7.9-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION	ID (x/y)	SD (x/y)	TOTAL NUMBER* OF INSTRUMENTS		SMD (x/y)
			TD (x/y)	UD (x/y)	
<u>REACTOR BUILDING ELEV 422'-3"</u>					
CRD PUMP ROOM	4/0				
AUX COND. PUMP ROOM	2/0				
<u>REACTOR BUILDING ELEV 441'-0"</u>					
RAILROAD AIRLOCK		4/0			
<u>REACTOR BUILDING ELEV 444'-0"</u>					
RHR-2A PUMP RM R2	3/0				
RHR-2B PUMP RM R1	3/0				
RHR-2C PUMP RM R4	3/0				
RCIC PUMP RM R3	3/0				
LPCS PUMP RM R5	2/0				
HPCS PUMP RM R6	3/0				
<u>REACTOR BUILDING ELEV 471'-0"</u>					
MCC ROOM	1/0				
GENERAL AREA	24/0				
<u>REACTOR BUILDING ELEV 501'-0"</u>					
GENERAL AREA	23/0				
<u>REACTOR BUILDING ELEV 522'-0"</u>					
MCC ROOM DIV. 2	1/0				
GENERAL AREA	28/0				
RHR VALVE ROOM	1/0				
<u>REACTOR BUILDING ELEV 548'-0"</u>					
FUEL POOL HT. EXCHGR ROOM A AND PUMP ROOM	1/0				
GENERAL AREA	29/0				
RHR HT. EXCHGR B ROOM	1/0				
<u>REACTOR BUILDING ELEV 572'-0"</u>					
HYDROGEN RECOMBINER COM. RM DIV. 2	2/0				
RHR HT. EXCHGR RM 1A	1/0				
RHR HT. EXCHGR RM 1B	1/0				
GENERAL FLOOR AREA	25/0				
<u>REACTOR BUILDING ELEV 606'-10.5"</u>					
GENERAL FLOOR AREA					6/0
<u>RADWASTE CONTROL BUILDING ELEV 467'-0"</u>					
ELECTRICAL EQUIPMENT ROOM NO. 1	2/0				
BATTERY ROOM NO. 1	4/0				
SWITCHGEAR ROOM NO. 1	3/0				
ELECTRICAL EQUIPMENT ROOM NO. 2	3/0				
BATTERY ROOM NO. 2	2/0				

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TABLE 3.3.7.9-1 (Continued)
FIRE DETECTION INSTRUMENTATION

<u>INSTRUMENT LOCATION</u>	<u>TOTAL NUMBER* OF INSTRUMENTS</u>				
	<u>ID</u> <u>(x/y)</u>	<u>SD</u> <u>(x/y)</u>	<u>TD</u> <u>(x/y)</u>	<u>UD</u> <u>(x/y)</u>	<u>SMD</u> <u>(x/y)</u>
<u>RADWASTE CONTROL BUILDING ELEV 467'-0"</u> (Continued)					
SWITCHGEAR ROOM NO. 2	3/0				
REMOTE SHUTDOWN ROOM	1/0				
CORRIDOR C-205	5/0				
<u>RADWASTE AND CONTROL BUILDING ELEV 484'-0"</u>					
CABLE SPREADING ROOM	0/36				
<u>RADWASTE AND CONTROL BUILDING ELEV 501'-0"</u>					
CABLE CHASE	0/5				
CONTROL ROOM (CEILING)	12/0	1/0			
CONTROL ROOM (PGCC)					
U679	8/0			0/9	
U680	11/0			0/14	
U681	7/0			0/9	
U682	8/0			0/8	
U683	8/0			0/8	
U684	6/0			0/8	
U685	6/0			0/8	
U686	6/0			0/8	
U687	8/0			0/8	
U688	6/0			0/8	
U689	4/0			0/8	
U690	5/0			0/8	
U800	5/0			0/6	
U840	5/0			0/6	
U891	8/0			0/8	
U892	8/0			0/10	
U893	9/0			0/9	
U894	8/0			0/9	
<u>RADWASTE AND CONTROL BUILDING ELEV 525'-0"</u>					
CABLE CHASE	0/6				
UNIT A - AIR CONDITIONING ROOM	5/0				2/1
UNIT B - AIR CONDITIONING ROOM	5/0				2/1
<u>STANDBY SERVICE WATER PUMP HOUSE 1A</u>					
PUMP HOUSE	1/0				
ELECTRICAL VAULT	1/0				
<u>STANDBY SERVICE WATER PUMP HOUSE 1B</u>					
PUMP HOUSE	1/0				
ELECTRICAL VAULT	1/0				

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TABLE 3.3.7.9-1 (Continued)
FIRE DETECTION INSTRUMENTATION

<u>INSTRUMENT LOCATION</u>	<u>ID</u> <u>(x/y)</u>	<u>SD</u> <u>(x/y)</u>	<u>TOTAL NUMBER*</u> <u>OF INSTRUMENTS</u>		<u>SMD</u> <u>(x/y)</u>
			<u>TD</u> <u>(x/y)</u>	<u>UD</u> <u>(x/y)</u>	
<u>TURBINE GENERATOR CORRIDOR ELEV 441'-0"</u>					
TG-1 CORRIDOR	6/18				
<u>DIESEL GENERATOR BUILDING ELEV 441'-0"</u>					
1A DIESEL GENERATOR ROOM	2/0	4/0	0/4		
1A DIESEL DAY TANK ROOM			1/1		
1A DIESEL OIL TANK PUMP ROOM			1/1		
1B DIESEL GENERATOR ROOM	2/0	4/0	0/4		
1B DIESEL DAY TANK ROOM			1/1		
1B DIESEL OIL TANK PUMP ROOM			1/1		
HPCS DIESEL GENERATOR ROOM	2/0	4/0	0/4		
HPCS DIESEL DAY TANK ROOM			1/1		
HPCS DIESEL OIL TANK PUMP ROOM			1/1		

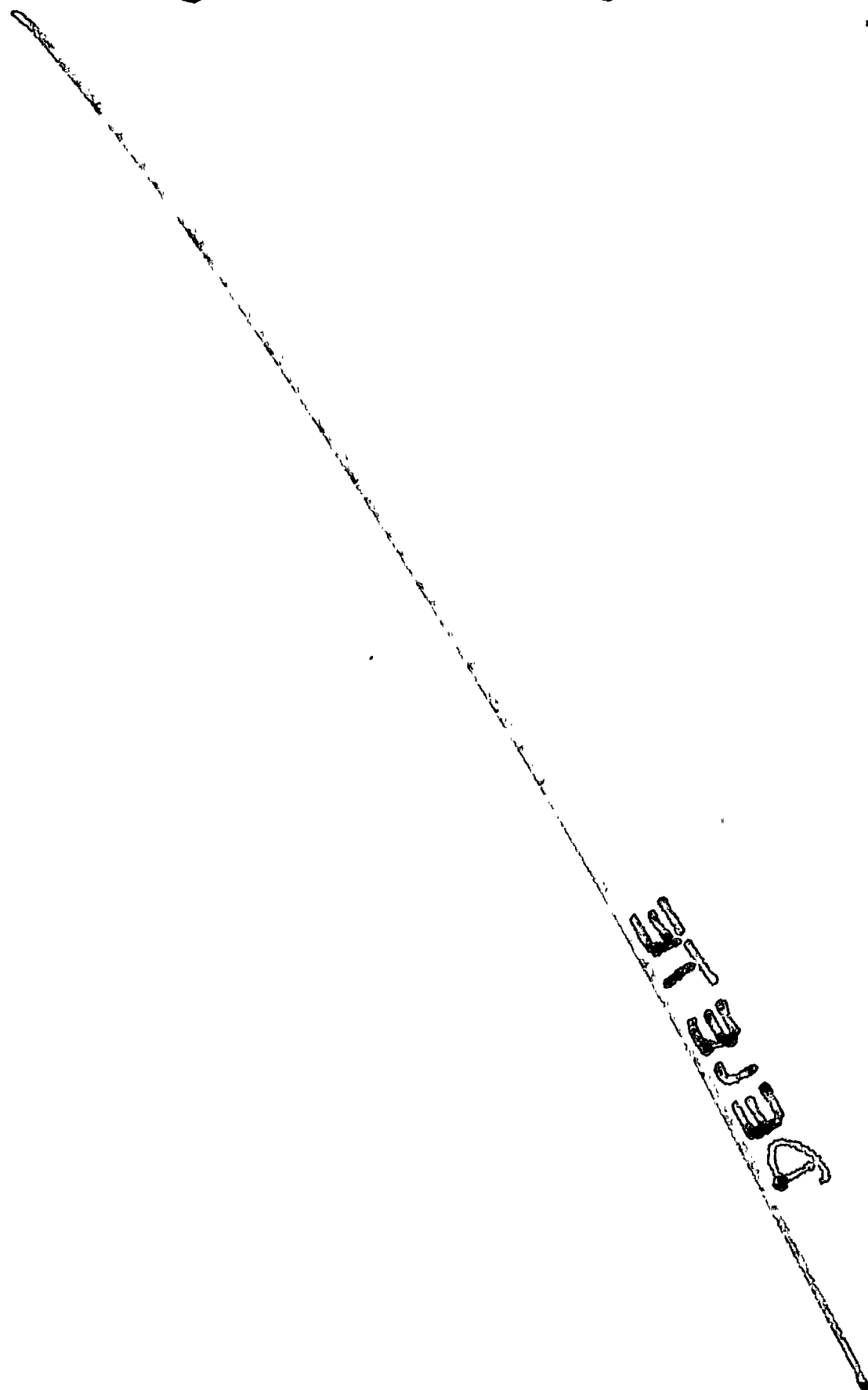
TABLE NOTATIONS

ID - Ionization Detector SD - Smoke Detector TD - Thermal Detector
UD - Ultraviolet (Flame) Detector SMD - Duct Ionization Detector

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

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PLANT SYSTEMS

3/4.7.6 FIRE SUPPRESSION SYSTEMS

FIRE SUPPRESSION WATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.6.1 The fire suppression water system shall be OPERABLE with:

- a. At least two of the three OPERABLE fire suppression pumps, each with a capacity of 2000 gpm pumping from the circulating water basin, or one 2500 gpm diesel-driven pump pumping from the secondary water supply tank, with their discharge aligned to the fire suppression header.
- b. Two separate fire water supplies, with a minimum contained volume of 300,000 gallons in the recirculating water pump house inlet basin and 280,000 gallons in the secondary water supply tank.
- c. An OPERABLE flow path capable of taking suction from the circulating water pump house inlet basin and the secondary water supply 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 3.7.6.2, 3.7.6.4, and 3.7.6.5.

APPLICABILITY: At all times.

ACTION:

- a. With two 2000 gpm pumps or the 2500 gpm pump and/or one water supply inoperable, restore at least two 2000 gpm pumps and the 2500 gpm pump and two fire water supplies to OPERABLE status within 7 days or provide an alternate backup pump or supply. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.
- b. With the fire suppression water system otherwise inoperable, establish a backup fire suppression water system within 24 hours.

SURVEILLANCE REQUIREMENTS

4.7.6.1.1 The fire suppression water system shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying the minimum contained water supply volume.
- b. At least once per 31 days on a STAGGERED TEST BASIS by starting each electric motor-driven fire suppression pump and operating it for at least 15 minutes on recirculation flow.
- c. 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.

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- d. At least once per 6 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 automatic valve in the flow path actuates to its correct position,
 2. Verifying that each circulating water basin supplied fire suppression pump develops at least 2000 gpm at a system head of 250 feet and that the secondary water supplied unit develops at least 2500 gpm at a system head of 325 feet,
 3. Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel, and
 4. Verifying that each fire suppression pump starts (sequentially) to maintain the fire suppression water system pressure greater than or equal to 95 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.

4.7.6.1.2 Both diesel-driven fire suppression pumps shall be demonstrated OPERABLE

- a. At least once per 31 days by:
 1. Verifying the fuel storage tanks contain at least 150 gallons of fuel.
 2. Starting the diesel-driven pump from ambient conditions and operating for greater than or equal to 30 minutes on recirculation flow.

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.

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4.7.6.1.3 Each diesel-driven fire pump starting 24-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 cell is above the plates,
 - 2. The cell specific gravity, corrected to 77°F and full electrolyte level, is greater than or equal to 1.200,
 - 3. The overall battery voltage is greater than or equal to 24 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. Battery-to-battery and terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material.

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PLANT SYSTEMS

SPRAY AND SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.6.2 The following pre-action and deluge spray and sprinkler systems shall be OPERABLE:

a. Radwaste Building:

1. Cable spreading room, elev. 484', system #65.
2. Cable chase and corridor, elev. 441' to 525', system #66.
3. Control Bldg. emergency charcoal filters, elev. 525', system #WMA-DV-54A and WMA-DV-54B.
4. Control Room, Elev. 501', automatic sprinklers office areas only

b. Diesel Generator Building:

1. DG room 1A and day tank room, elev. 441', system #79.
2. DG 1A day tank pump room, elev. 441', system #80.
3. DG room 1B and day tank room, elev. 441', system #81.
4. DG 1B day tank pump room, elev. 441', system #82.
5. HPCS DG room and day tank room, elev. 441', system #83.
6. HPCS DG day tank pump room, elev. 441', system #84.

c. Reactor Building:

1. Standby gas treatment system charcoal filters, elev. 572', system #SGT-DIV-1A-1, #SGT-DIV-1A-2, #SGT-DIV-1A-3, #SGT-DIV-1B-1, #SGT-DIV-1B-2, and #SGT-DIV-1B-3.
2. Sump vent filter system charcoal filters, elev. 572', system #REA-DV-2A and #REA-DV-2B.

APPLICABILITY: Whenever equipment protected by the spray and/or sprinkler systems 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; for other areas, establish an hourly fire watch patrol.
- b. The provisions of Specification 3.0.3 and 3.0.4 are not applicable.

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS

4.7.6.2 Each of the above required spray and 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 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 detector 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 deluge nozzle's spray area to verify that 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 and verifying each open head spray and sprinkler nozzle is unobstructed.

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WHEELS

PLANT SYSTEMS

HALON SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.6.3 The 18 Halon systems in the PGCC units in the control room shall be OPERABLE with the storage tanks having at least 95% of full charge weight and 90% of full charge pressure.

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

ACTION:

- a. With one or more of the above required Halon 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; 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

4.7.6.3 Each of the above required Halon 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 is in its correct position.
 - b. At least once per 6 months by verifying Halon storage tank quantity and pressure.
 - c. At least once per 18 months by:
 1. Verifying the system, including associated ventilation system fire dampers and fire door release mechanisms, actuates, manually and automatically, upon receipt of a simulated actuation signal, and
 2. Performance of a flow test through accessible headers and nozzles to assure no blockage.
- At least once per 36 months by verifying Halon storage tank weight.

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PLANT SYSTEMS

FIRE HOSE STATIONS

LIMITING CONDITION FOR OPERATION

3.7.6.4 The fire hose stations shown in Table 3.7.6.4-1 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 3.7.6.4-1 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

4.7.6.4 Each of the fire hose stations shown in Table 3.7.6.4-1 shall be demonstrated OPERABLE:

- a. At least once per 31 days by a visual inspection of the fire hose 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 fire hose stations not accessible during plant operation 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.
- 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 the maximum fire main operating pressure, whichever is greater.

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TABLE 3.7.6.4-1
FIRE HOSE STATIONS

<u>LOCATION</u>	<u>ELEVATION</u>	<u>HOSE RACK IDENTIFICATION</u>
1. Reactor Bldg. Standpipe RB-1	427'-0"	RB-HS-11
2. Reactor Bldg. Standpipe RB-1	446'-0"	RB-HS-12
3. Reactor Bldg. Standpipe RB-1	476'-0"	RB-HS-13
4. Reactor Bldg. Standpipe RB-1	506'-0"	RB-HS-14
5. Reactor Bldg. Standpipe RB-1	527'-0"	RB-HS-15
6. Reactor Bldg. Standpipe RB-1	553'-0"	RB-HS-16
7. Reactor Bldg. Standpipe RB-1	577'-0"	RB-HS-17
8. Reactor Bldg. Standpipe RB-1	612'-0"	RB-HS-18
9. Reactor Bldg. Standpipe RB-2	427'-0"	RB-HS-21
10. Reactor Bldg. Standpipe RB-2	446'-0"	RB-HS-22
11. Reactor Bldg. Standpipe RB-2	476'-0"	RB-HS-23
12. Reactor Bldg. Standpipe RB-2	506'-0"	RB-HS-24
13. Reactor Bldg. Standpipe RB-2	527'-0"	RB-HS-25
14. Reactor Bldg. Standpipe RB-2	553'-0"	RB-HS-26
15. Reactor Bldg. Standpipe RB-2	577'-0"	RB-HS-27
16. Reactor Bldg. Standpipe RB-2	612'-0"	RB-HS-28
17. Railroad Car Air Lock	446'-0"	RB-HS-29
18. Radwaste Bldg. Standpipe RWB-1	472'-0"	RWB-HS-13
19. Radwaste Bldg. Standpipe RWB-1	492'-0"	RWB-HS-14
20. Radwaste Bldg. Standpipe RWB-1	512'-0"	RWB-HS-15
21. Radwaste Bldg. Standpipe RWB-1	530'-0"	RWB-HS-16
22. Turbine Generator DG Bldg. Corridor	446'-0"	RWB-HS-25
23. Radwaste Bldg. Stair A-13	472'-0"	RWB-HS-26
24. Radwaste Bldg. In Corridor	492'-0"	RWB-HS-28
25. Radwaste Bldg. In Corridor	472'-0"	RWB-HS-29
26. Radwaste Control Room Corridor	506'-0"	RWB-HS-31
27. Diesel Generator Bldg. In Corridor	446'-0"	DG-HS-41
28. Diesel Generator Bldg.	446'-0"	DG-HS-40
29. Radwaste Bldg.	530'-0"	RWB-HS-33

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PLANT SYSTEMS

YARD FIRE HYDRANTS AND HYDRANT HOSE HOUSES

LIMITING CONDITION FOR OPERATION

3.7.6.5 The yard fire hydrants and associated hydrant hose houses shown in Table 3.7.6.5-1 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 3.7.6.5-1 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 hydrant or associated hydrant hose house 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

4.7.6.5 Each of the yard fire hydrants and associated hydrant hose houses shown in Table 3.7.6.5-1 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 6 months, during March, April or May and during September, October, or November, by visually inspecting each yard fire hydrant and verifying that the hydrant barrel is dry and that the hydrant is not damaged.
- c. 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 the maximum fire main operating pressure, whichever is greater.
 2. Replacement of all degraded gaskets in couplings.
 3. Performing a flow check of each hydrant.

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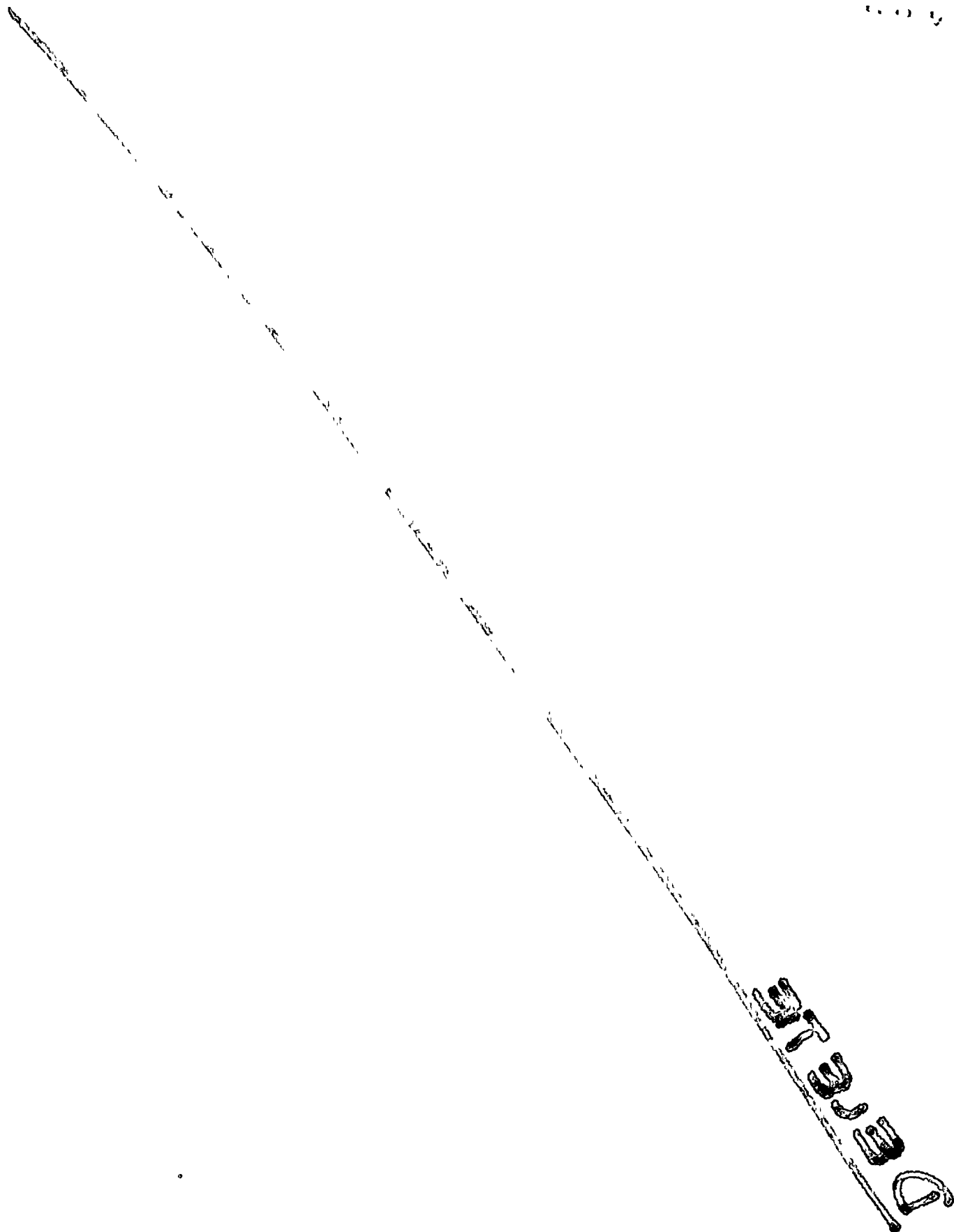


TABLE 3.7.6.5-1

YARD FIRE HYDRANTS AND ASSOCIATED HYDRANT HOSE HOUSES

<u>LOCATION</u>	<u>HYDRANT NUMBER</u>
1. South side of Diesel Generator Bldg.	HT-1A
2. Southeast corner of Diesel Generator Bldg.	HT-1B
3. West side of Radwaste Bldg.	HT-1G
4. South side of Radwaste Bldg.	HT-1H
5. Northwest of Standby Service Water Pump House 1A	HT-1M
6. North side of Standby Service Water Pump House 1B	HT-1N
7. West side of Radwaste and Turbine Generator Bldg.	HT-1R

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PLANT SYSTEMS

3/4.7.7 FIRE-RATED ASSEMBLIES

LIMITING CONDITION FOR OPERATION

3.7.7 All fire-rated assemblies, including 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, including fire doors, fire windows, fire dampers, cable, piping and ventilation duct penetration seals and ventilations 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 establish a continuous fire watch on at least one side of the affected assembly(s) and/or sealing device(s) or verify the OPERABILITY of fire detectors on at least one side of the inoperable assembly(s) and/or sealing device(s) and establish an hourly fire watch patrol.
- b. The provisions of specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.7.1 Each of the above required fire-rated assemblies and penetration sealing devices shall be verified OPERABLE at least once per 18 months by performing a visual inspection of:

- a. The exposed surfaces of each fire-rated assembly.
- b. Each fire window, fire damper, and associated hardware.
- c. 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.

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4.7.7.2 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 electrical 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.

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INSTRUMENTATION

BASES

MONITORING INSTRUMENTATION (Continued)

3/4.3.7.9 FIRE DETECTION INSTRUMENTATION

OPERABILITY of the detection instrumentation ensures that both adequate warning capability is available for prompt detection of fires and that fire suppression systems, that are actuated by fire detectors, will discharge extinguishing agent in a timely manner. Prompt detection and suppression of fires will reduce the potential for damage to safety-related equipment and is an integral element in the overall facility fire protection program.

Fire detectors that are used to actuate fire suppression systems represent a more critically important component of a plant's fire protection program than detectors that are installed solely for early fire warning and notification. Consequently, the minimum number of OPERABLE fire detectors must be greater.

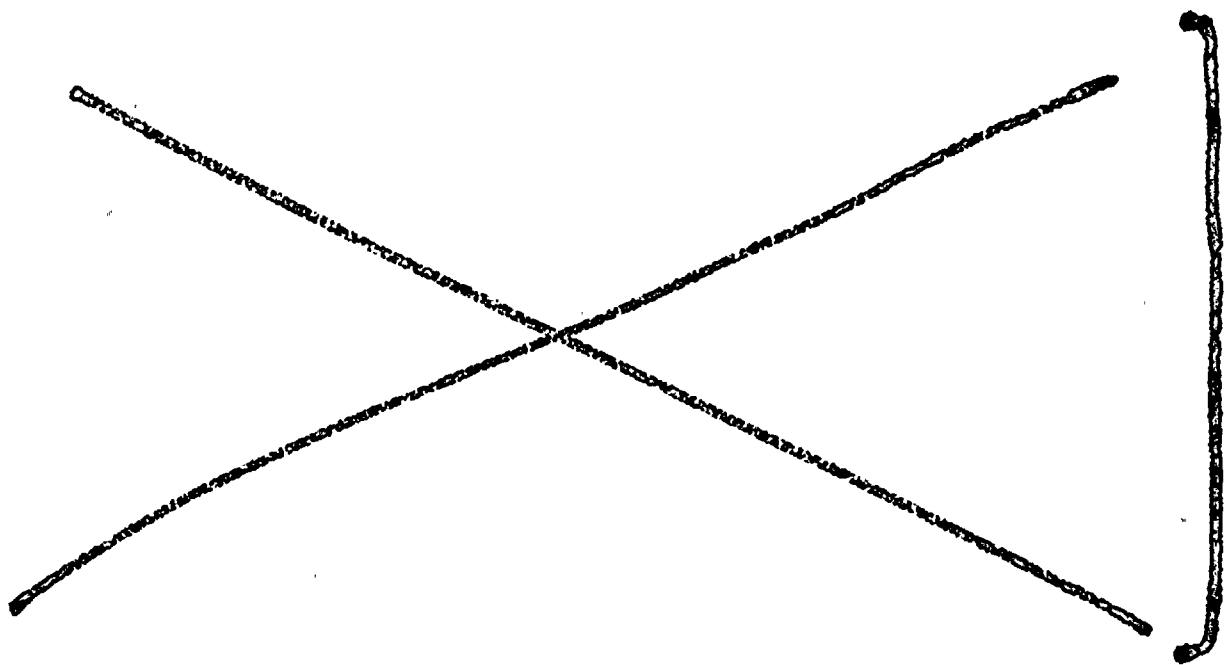
The loss of detection capability for fire suppression systems, actuated by fire detectors, represents a significant degradation of fire protection for any area. As a result, the establishment of a fire watch patrol must be initiated at an earlier stage than would be warranted for the loss of detectors that provide only early fire warning. The establishment of frequent fire patrols in the affected areas is required to provide detection capability until the inoperable instrumentation is restored to OPERABILITY.

3/4.3.7.10 LOOSE-PART DETECTION SYSTEM

The OPERABILITY of the loose-part detection system 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.

3/4.3.7.11 RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

The radioactive liquid effluent instrumentation is provided to monitor and control, as applicable, the releases of radioactive materials in liquid effluents during actual or potential releases of liquid effluents. The alarm/trip setpoints for these instruments shall be calculated and adjusted in accordance with the methodology and parameters in the ODCM to ensure that the alarm/trip will occur prior to exceeding the limits of 10 CFR Part 20. The OPERABILITY and use of this instrumentation is consistent with the requirements of General Design Criteria 60, 63, and 64 of Appendix A to 10 CFR Part 50. The purpose of tank level indicating devices is to assure the detection and control of leaks that if not controlled could potentially result in the transport of radioactive materials to UNRESTRICTED AREAS.



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PLANT SYSTEMS

BASES

SNUBBERS (Continued)

3. Functionally test a representative sample size and determine sample acceptance or rejection using the stated equation.

Figure 4.7-1 was developed using "Wald's Sequential Probability Ratio Plan" as described in "Quality Control and Industrial Statistics" by Acheson J. Duncan.

Permanent or other exemptions from the surveillance program for individual snubbers may be granted by the Commission if a justifiable basis for exemption is presented and, if applicable, snubber life destructive testing was performed to qualify the snubbers for the applicable design conditions at either the completion of their fabrication or at a subsequent date. Snubbers so exempted shall be listed in the list of individual snubbers indicating the extent of the exemptions.

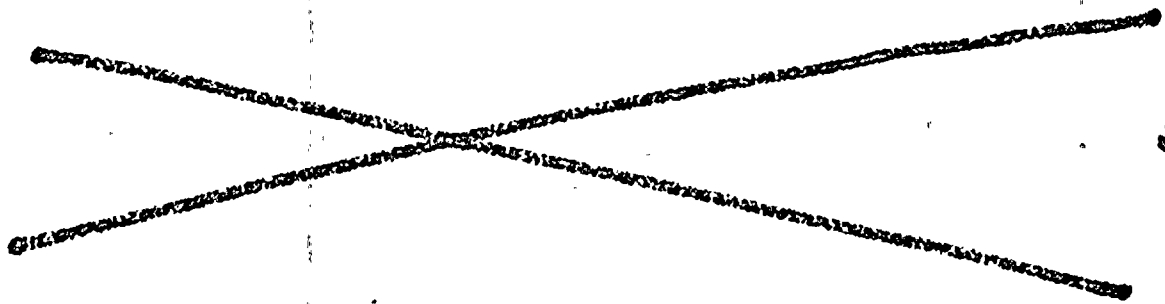
The service life of a snubber is established via manufacturer input and information through consideration of the snubber service conditions and associated installation and maintenance records (newly installed snubbers, seal replaced, spring replaced, in high radiation area, in high temperature area, etc.). The requirement to monitor the snubber service life is included to ensure that the snubbers periodically undergo a performance evaluation in view of their age and operating conditions. These records will provide statistical bases for future consideration of snubber service life.

3/4.7.5 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 devices, are considered to be stored and need not be tested unless they are removed from the shielded mechanism.

3/4.7.6 FIRE SUPPRESSION SYSTEMS

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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 sprinkler systems, CO₂ systems, Halon systems, and fire hose stations. The collective capability of the fire suppression systems is adequate to minimize potential damage to safety-related equipment and is a major element of the facility fire protection program.



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PLANT SYSTEMS

BASES

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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 assurances 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 the weight and pressure of the tanks.

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.

3/4.7.7 FIRE-RATED ASSEMBLIES

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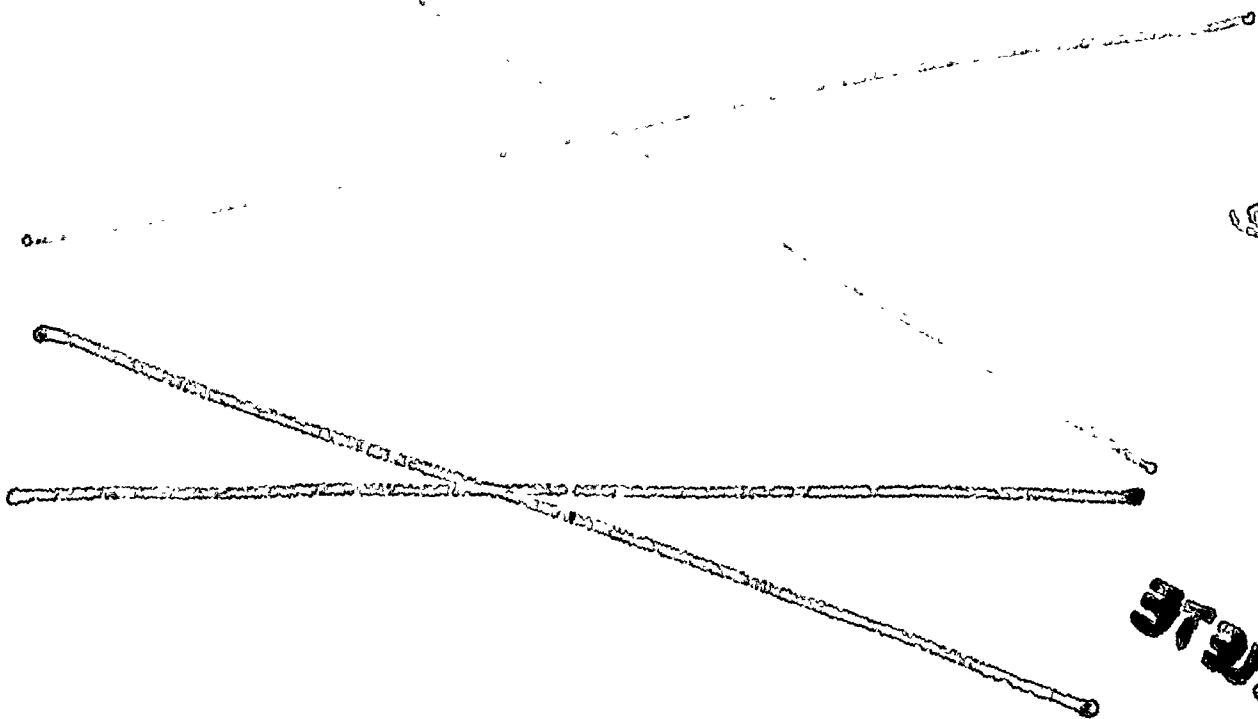
The OPERABILITY of the fire barriers and barrier penetrations ensure that fire damage will be limited. The design features minimize the possibility of a single fire involving more than one fire area prior to detection and extinguishment. The fire barriers, fire barrier penetrations for conduits, cable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

3/4.7.8 AREA TEMPERATURE MONITORING

The area temperature limitations ensure that safety-related equipment will not be subjected to temperatures in excess of their environmental qualification temperatures. Exposure to excessive temperatures may degrade equipment and can cause loss of its OPERABILITY.

3/4.7.9 MAIN TURBINE BYPASS SYSTEM

The main turbine bypass system is required to be OPERABLE consistent with the assumptions of the feedwater controller failure analysis of FSAR Chapter 15. The main turbine bypass system provides pressure relief during the feedwater controller failure event so that the safety limit MCPR is not violated.



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ADMINISTRATIVE CONTROLS

REVIEW (Continued)

- c. Proposed tests or experiments which involve an unreviewed safety question as defined in 10 CFR 50.59;
- d. Proposed changes to Technical Specifications or this Operating License;
- e. Violations of codes, regulations, orders, Technical Specifications, license requirements, or of internal procedures or instructions having nuclear safety significance;
- f. Significant operating abnormalities or deviations from normal and expected performance of unit equipment that affect nuclear safety;
- g. All REPORTABLE EVENTS;
- h. All recognized indications of an unanticipated deficiency in some aspect of design or operation of structures, systems, or components that could affect nuclear safety; and
- i. Reports and meeting minutes of the POC.
- j. Audit reports and summary reports of audits.

AUDITS

6.5.2.8 Audits of unit activities shall be performed under the cognizance of the CNSRB. These audits shall encompass:

- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions at least once per 12 months;
- b. The performance, training and qualifications of the entire unit staff at least once per 12 months;
- c. The results of actions taken to correct deficiencies occurring in unit equipment, structures, systems, or method of operation that affect nuclear safety, at least once per 6 months;
- d. The performance of activities required by the Operational Quality Assurance Program to meet the criteria of Appendix B, 10 CFR Part 50, at least once per 24 months;
- ~~e. The fire protection programmatic controls including the implementing procedures at least once per 24 months by qualified licensee QA personnel;~~
- f. The Emergency Plan and implementing procedures at least once per 12 months per 10 CFR 50.54(t).
- g. The Security Plan and implementing procedures at least once per 12 months.

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ADMINISTRATIVE CONTROLS

AUDITS (Continued)

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~~h. The fire protection equipment and program implementation, at least once per 12 months, utilizing either a qualified offsite licensee fire protection engineer(s) or an offsite independent fire protection consultant. An offsite independent fire protection consultant shall be utilized at least once every third year; and~~

- i. Any other area of unit operation considered appropriate by the CNSRB or the Managing Director.
- j. The radiological environmental monitoring program and the results thereof at least once per 12 months.
- k. The OFFSITE DOSE CALCULATION MANUAL and implementing procedures at least once per 24 months.
- l. The PROCESS CONTROL PROGRAM and implementing procedures for processing and packaging of radioactive wastes at least once per 24 months..
- m. The performance of activities required by the Quality Assurance Program for effluent and environmental monitoring at least once per 12 months.

RECORDS

6.5.2.9 Records of CNSRB activities shall be prepared, approved, and distributed as indicated below:

- a. Minutes of each CNSRB meeting shall be prepared, approved, and forwarded to the Managing Director 14 days following each meeting.
- b. Reports of reviews encompassed by Specification 6.5.2.7 above, shall be prepared, approved, and forwarded to the Managing Director within 14 days following completion of the review.
- c. Audit reports encompassed by Specification 6.5.2.8 shall be forwarded to the Managing Director and to the management positions responsible for the areas audited within 30 days after completion of the audit.

6.6 REPORTABLE EVENT ACTION

6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the (POC), and the results of this review shall be submitted to the CNSRB and the Assistant Managing Director for Operations.

DATE

ADMINISTRATIVE CONTROLS

6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within 1 hour. The Assistant Managing Director for Operations and the CNSRB shall be notified.
- b. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the POC. This report shall describe (1) applicable circumstances preceding the violation, (2) effects of the violation upon unit components, systems, or structures, and (3) corrective action taken to prevent recurrence.
- c. The Safety Limit Violation Report shall be submitted to the Commission, the CNSRB, and the Assistant Managing Director for Operations.
- d. Critical operation of the unit shall not be resumed until authorized by the Commission.

6.8 PROCEDURES AND PROGRAMS

6.8.1 Written procedures shall be established, implemented, and maintained covering the activities referenced below:

- a. The applicable procedures recommended in Appendix A of Regulatory Guide 1.33, Revision 2, February 1978.
- b. The applicable procedures required to implement the requirements of NUREG-0737.
- c. Refueling operations.
- d. Surveillance and test activities of safety-related equipment.
- e. Security Plan implementation.
- f. Emergency Plan implementation.
- ~~g. Fire Protection Program implementation.~~ DELETE
- h. PROCESS CONTROL PROGRAM implementation.
- i. OFFSITE DOSE CALCULATION MANUAL implementation.
- j. Quality Assurance Program for effluent and environmental monitoring.
- k. Health Physics/Chemistry Support Program.

6.8.2 Each procedure of Specification 6.8.1a. through j., and changes thereto, shall be reviewed by the POC and shall be approved by the Plant Manager prior to implementation and reviewed periodically as set forth in administrative procedures.

In addition, the review and approval of the implementing procedures supporting item k. in Specification 6.8.1 will be coordinated by the Director of Support Services, who will provide review and approval control. The WNP-2 Health Physics/Chemistry Support Program procedure will be reviewed by POC and approved by the Plant Manager.

