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Attachment 1

Millstone Nuclear Power Station, Unit No. 2  
Proposed Revision to Technical Specifications

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LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

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TABLE 3.3-10

## FIRE DETECTION INSTRUMENTS

Instrument Location (Zone)	Heat		Smoke	
	Total No. of Channels	Minimum Channels Operable	Total No. of Channels	Minimum Channels Operable
1. Containment				
East Penetration (37)--FLP 3-3	--	--	7	5
West Penetration (31)--FLP 3-7	--	--	7	5
2. Control Room Vent Duct (42) Z-2	--	--	1	1
Control Room Vent Duct (2) Z-1	--	--	1	1
3. Cable Vaults & Areas				
Aux. Bldg Cable Vault (25') (10)	5	4	16	12
Turbine Bldg. Cable Vault (25') (22)	--	--	34	34
Turbine Bldg Cable Vault Area (45') (21)	--	--	8	6
Lunch Room Cable Chase Area (36'6") (24)	--	--	4	3
4. 4.16 & 6.9 kV Switchgear Room (54'6") (40)	--	--	4	3
4.16 kV Switchgear Room (31'6") (18)	--	--	4	3
480 V West Switchgear Room (36'6") (18)	--	--	2	1
480 V East Switchgear Room (36'6") (28)	--	--	2	1
East DC Equipment Room (43 Alarm) (FLP-5)	--	--	6	6
West DC Equipment Room (45 Alarm) (FLP-6)	--	--	6	6
East Cable Vault Ventilation Opening (44) (FLP 7)	--	--	1	1
West Cable Vault Ventilation Opening (44) (FLP 7)	--	--	1	1
5. Battery Rooms				
West Battery Room (14'6") (39)	--	--	1	1
East Battery Room (14'6") (39)	--	--	2	1
6. Electrical Penetration Rooms				
East (14'6") (20)	--	--	3	2
West (14'6") (17)	--	--	2	1

TABLE 3.3-10 (Continued)  
FIRE DETECTION INSTRUMENTS

Instrument Location (Zone)	Heat		Smoke	
	Total No. of Channels	Minimum Channels Operable	Total No. of Channels	Minimum Channels Operable
7. Diesel Generators				
Diesel 1221 (12)	8	8	--	--
Diesel 1321 (13)	8	8	--	--
8. Main Exhaust Equipment Room and B52 Enclosure				
Room (E1 38'6") (5)	--	--	3	3
9. Auxiliary Building - 45 (FLP-1)				
General Area (48)	--	--	3	2
A. Safe Guards Room (48)	--	--	2	1
B. Safe Guards Room (48)	--	--	2	1
C. Safe Guards Room (48)	--	--	1	1
10. Auxiliary Building - 25 (FLP-2)				
General Area - 25 (52)	--	--	9	7
Charging Pump Rooms - 25 (52)	--	--	5	3
11. Containment Building FLP-3 (37)				
RCP "A" - (FLP 3-1)	5	3	--	--
RCP "B" - (FLP 3-2)	5	3	--	--
RCP "C" - (FLP 3-5)	5	3	--	--
RCP "D" - (FLP 3-6)	5	3	--	--
12. Auxiliary Building (-5'/14'6") (FLP-4)				
Auxiliary Building General Area 14'6" (41)	--	--	9	7
Auxiliary Building West Piping Penetration (41)				
Room -5'	--	--	2	1
Auxiliary Building -5' (41)	--	--	13	10



TABLE 3.3-10 (Continued)

FIRE DETECTION INSTRUMENTS

<u>Instrument Location (Zone)</u>	<u>Heat</u>		<u>Smoke</u>	
	<u>Total No. of Channels</u>	<u>Minimum Channels Operable</u>	<u>Total No. of Channels</u>	<u>Minimum Channels Operable</u>
13. Hydrogen Seal Oil (31)	6	6	--	--
14. Intake Structure (6)	--	--	10	10
15. Motor Driven Aux. Feed Pump Rm (22)	--	--	2	2

## PLANT SYSTEMS

### SPRAY AND/OR SPRINKLER SYSTEMS

#### LIMITING CONDITION FOR OPERATION

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

- a. Diesel Generator Rooms
- b. Diesel Generator Day Tank Rooms
- c. Cable Vault (Aux. Building)
  - 1. Sprinkler (in tray)
  - 2. Sprinkler (ceiling level)
- d. Cable Vault (Turbine Building)
  - 1. Automatic Wet Pipe Sprinkler System (45'0")
  - 2. Automatic Deluge System (vertical cable shaft and elevation 25'0" cable vault)
- e. Hydrogen Seal Oil Unit
- f. Turbine Building Northeast Corner
- g. Turbine Building 31'6"/14'6" - North
- h. Turbine Building 31'6"/14'6" - South
- i. Lube Oil Room
- j. Aux. Building (-45'6") General Area
- k. Aux. Building (14'6") Truck Access
- l. Turbine Bearing
- m. Steam Generator Feed Pumps
- n. Aux. Bldg. (14'6") at MCC B-61
- o. Aux. Bldg. (-25'6") at Charging Pump Cubicle
- p. Aux. Bldg. (14'6") General Area

APPLICABILITY: Whenever equipment in the spray/sprinkler protected areas is required to be OPERABLE.

#### ACTION:

- a. With one or more of the above required spray and/or sprinkler systems inoperable, establish a continuous fire watch with backup fire suppression equipment for the unprotected area(s) within 1 hour; restore the system to OPERABLE status within 14 days or, in lieu of any other report required by Specification 6.6.1, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 30 days outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.
- b. The provisions of Specification 3.0.3 are not applicable.

#### SURVEILLANCE REQUIREMENT

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

TABLE 3.7-2  
FIRE HOSE STATIONS

<u>Hose Station Number</u>	<u>Bldg/Elevation</u>	<u>Area</u>
201-207	Turbine/14'6"	Turbine Building
208-214	Turbine/31'6"	Turbine Building
215-221	Turbine/54'6"	Turbine Building
222	Auxiliary/-45'6"	Center of Open Area
223	Auxiliary/-25'6"	Near Elevator
224	Auxiliary/-5'0"	Near Elevator
225	Auxiliary/14'6"	Near Elevator
226	Auxiliary/38'6"	Spent Fuel Pool - Northwest corner
227	Auxiliary/14'6"	Boric Acid Batch Tank area
228	Auxiliary/14'6"	Near MCC 22-1E (B51)
229	Auxiliary/14'6"	Railway access
230	Auxiliary/38'6"	Spent Fuel Pool - South Wall
231	Auxiliary/14'6"	Outside Diesel Room
234	Auxiliary/38'6"	Southeast corner stairway
240	Auxiliary/5'0"	Southeast corner stairway
241	Auxiliary/25'6"	Cable Vault Southeast Entrance
242	Auxiliary/36'6"	Control Room Ventilation Area
243	Turbine/45'0"	North Entrance of Turbine Bldg. Cable Vaults
250-251	Containment/38'6"	East & West Stairwells
248-249	Containment/14'6"	East & West Stairwells
244-245	Containment/-22'0"	East & West Stairwells

## PLANT SYSTEMS

### HALON FIRE SUPPRESSION SYSTEM

#### LIMITING CONDITION FOR OPERATION

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3.7.9.4 The following halon 1301 fire suppression systems shall be OPERABLE with: an intact gas boundary, an operable activation system, and a container having a net weight of not less than 95% of full charge weight at 325 psig minimum (corrected to 70°F).

- a) West D.C. Switchgear Room
- b) East D.C. Switchgear Room

APPLICABILITY: At all times.

#### ACTION:

- a. With one or more of the above systems inoperable, establish a continuous fire watch with backup fire suppression equipment for the unprotected area(s) within 1 hour; restore the system to OPERABLE status within 14 days or, in lieu of any other report required by Specification 6.6.1, prepare and submit a Special Report to the Commission, pursuant to Specification 6.9.2, within the next 30 days outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.
- b. The provisions of Specification 3.0.3 are not applicable.

#### SURVEILLANCE REQUIREMENTS

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4.7.9.4 Each of the above halon fire suppression systems shall be demonstrated OPERABLE:

- a. At least once per 6 months:
  - 1. By performing a system functional test which includes simulated automatic operation of the system; and:
    - a. simulated manual actuation of the system.
    - b. verifying that the storage containers have a net weight of not less than 95% of full charge weight at 325 psig (corrected to 70°F).
    - c. verifying the associated room dampers close.
- b. At least once per 18 months:
  - 1. By performing a visual inspection of the discharge nozzles to assure no blockage.
  - 2. By performing a visual inspection to assure the gas boundary is intact.



## PLANT SYSTEMS

### 3/4.7.10 PENETRATION FIRE BARRIERS

#### LIMITING CONDITIONS FOR OPERATION

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3.7.10 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 unless otherwise determined that the separation of safety-related fire areas or separating portions of redundant systems important to safe shutdown within a fire area is not required based on the MODE of operation.

#### ACTION:

- a. With one or more of the above required fire rated assemblies and/or penetration sealing devices inoperable, within 1 hour:
  1. Determine that the fire areas/zones on both sides of the affected fire rated assembly and/or penetration sealing device are monitored by either an OPERABLE fire detection or automatic suppression system at the fire barrier and establish a fire watch patrol that inspects both areas at least once per hour, or
  2. Establish a continuous fire watch on at least one side of the affected fire rated assembly and/or penetration seal, or
  3. Temporarily repair the inoperable fire rated assembly and/or sealing device and classify it as temporary.

All temporary or inoperable fire rated assemblies and/or sealing devices shall be permanently repaired within 30 days, or implement ACTION 1 or 2 above.

- b. The provisions of Specification 3.0.3 are not applicable.

#### SURVEILLANCE REQUIREMENTS

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4.7.10 The above required fire rated assemblies and penetration sealing devices shall be verified to be OPERABLE by a visual inspection:

- a. At least once per 18 months for fire doors and fire dampers.

SURVEILLANCE REQUIREMENTS (Continued)

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- b. At least once per 18 months for fire barrier penetration seals, on at least 10% of the total number of penetration seals. If any of the penetration seals in the inspection sample are found to be inoperable, then an additional 10% sample of the total number of penetration seals shall be visually inspected. Sampling and inspection shall continue until all of the seals in a sample are found OPERABLE or 100% of the seals are inspected.
- c. Prior to returning a fire rated assembly and/or penetration sealing device to OPERABLE status following repairs or maintenance.

## PLANT SYSTEMS

### 3/4.7-11 ULTIMATE HEAT SINK

#### LIMITING CONDITION FOR OPERATION

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3.7.11 The ultimate heat sink shall be OPERABLE with an average water temperature of less than or equal to 75°F at the Unit 2 intake structure.

APPLICABILITY: MODES 1, 2, 3, AND 4

#### ACTION:

With the requirements of the above specification not satisfied, be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

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4.7.11 The ultimate heat sink shall be determined OPERABLE:

- a. At least once per 24 hours by verifying the average water temperature at the Unit 2 intake structure to be within limits.
- b. At least once per 6 hours by verifying the average water temperature at the Unit 2 intake structure to be within limits when the average water temperature exceeds 70°F.

## ADMINISTRATIVE CONTROLS

- c. Safety Class 1 Inservice Inspection Program Review, Specification 4.4.10.1.
- d. ECCS Actuation, Specifications 3.5.2 and 3.5.3.
- e. Fire Detection Instrumentation, Specification 3.3.3.7.
- f. Fire Suppression Systems, Specifications 3.7.9.1, 3.7.9.2 and 3.7.9.4.
- g. RCS Overpressure Mitigation, Specification 3.4.9.3.
- h. Radiological Effluent Reports required by Specifications 3.11.1.2, 3.11.2.2, 3.11.2.3 and 3.11.4.
- i. Degradation of containment structure, Specification 4.6.1.6.4.
- j. Steam Generator Tube Inspection, Specification 4.4.5.1.5.
- k. Accident Monitoring Instrumentation, Specification 3.3.3.8.
- l. Radiation Monitoring Instrumentation, Specification 3.3.3.1.
- m. Reactor Coolant System Vents, Specification 3.4.11.