

ENCLOSURE 1

REVISIONS TO PROPOSED
TECHNICAL SPECIFICATION 3.3.3.7,
"FIRE DETECTION INSTRUMENTATION"

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INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.7 As a minimum, the fire detection instrumentation for each fire detection area/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:

With the number of OPERABLE fire detection instrument(s) for each fire area/zone less than the number listed in Table 3.3-11, perform the following as applicable:

- a.1. With less than or equal to 50% of the early warning detectors inoperable, restore the inoperable early warning fire detectors to operable status within 14 days or within the next 1 hour establish an hourly fire watch.*
- a.2. With greater than 50% of the early warning detectors inoperable or with any two or more adjacent early warning fire detectors inoperable, establish an hourly fire watch within 1 hour.*
- a.3. With less than the listed number of actuation detectors operable, establish an hourly fire watch within 1 hour.*
- a.4. For instruments located inside containment, inspect the containment at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.7.1 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.

4.3.3.7.2 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.

* Not required for areas that pose temporary radiation and/or life-threatening safety hazards. If the fire watch/patrol cannot be restored within 24 hours, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 7 days outlining the action taken, the cause of the hazard and the plans and schedule for restoring the required fire watch/patrol.

INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

SURVEILLANCE REQUIREMENTS (Continued)

4.3.3.7.3 The non-supervised circuits associated with detector alarms between the instruments and the control room shall be demonstrated OPERABLE at least once per 31 days.

4.3.3.7.4 Following a seismic event (basemat acceleration greater than or equal to 0.05g):

- a. Within 2 hours, each fire area/zone shown in Table 3.3-11 shall be inspected for fires, and
- b. Within 72 hours the OPERABILITY of the fire detection system in each fire area/zone shown in Table 3.3-11 shall be assessed by the following:
 1. Status of fire alarms,
 2. Status of trouble alarms,
 3. In-place visual inspection for external damage of detectors for each fire area/zone outside containment.

The results of this assessment shall be evaluated and action taken consistent with Specification 3.3.3.7.

TABLE 3.3-11

FIRE DETECTION INSTRUMENTS

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|----------------|---|---------------|-----------|
| 2-CO-15-1A* | Reactor Coolant Pump 002 | | 8 |
| | Reactor Coolant Pump 004 | | 8 |
| 2-CO-15-1B* | Reactor Coolant Pump 001 | | 8 |
| | Reactor Coolant Pump 003 | | 8 |
| 2-CO-15-1C* | Containment Area Quadrants 1,2,3 and 4 Elevation 30'-0" | 4 | |
| | Elevation 45'-0" | 9 | |
| | Charcoal Filter Elevation 45'-0" | 1** | |
| 2-CO-63-1D* | Operating Floor Elevation 63'-0" | 10 | |
| 2-PE-9-2A | Penetration Bldg Elevation 9'-0" | 4 | |
| 2-PE-(-18)-2B | Penetration Bldg Piping Area Elevation (-)18'-0" | 2 | |
| 2-PE-30-2C | Penetration Bldg Piping Area Elevation 30'-0" | 7 | |
| | Charcoal Filter | 1** | |
| 2-PE-30-2D | Penetration Bldg Piping Area Elevation 30'-0" | 2 | |
| 2-PE-45-3A | Penetration Bldg Electrical Penetration Area Elevation 45'-0" | 7 | |
| 2-PE-63-3B | Penetration Bldg Electrical Penetration Area Elevation 63'-0" | 12 | |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|-----------------------|---|---------------|-----------|
| 2-AC-9-5 | Auxiliary Control Bldg Cable Spreading Room Elevation 9'-0" | 17 | 36 |
| INSERT 1 → 2-AC-9-14 | Auxiliary Control Bldg Cable Riser Gallery Elevation 9'-0" | 7 | 45 |
| INSERT 2 → 2-AC-30-26 | Auxiliary Control Bldg Fan Room Elevation 30'-0" | 1 | |
| | Air Conditioner Charcoal Filter | 1** | |
| | Emergency Ventilation Charcoal Filter | 1** | |
| 2-AC-30-28 | Auxiliary Control Bldg Cable Riser Gallery Elevation 30'-0" | 3 | 53 |
| 2-AC-50-35 | Auxiliary Control Bldg Switchgear Room 2B Elevation 50'-0" | 2 | |
| 2-AC-50-36 | Auxiliary Control Bldg Cable Riser Gallery Elevation 50'-0" | 1 | 13 |
| 2-AC-50-37 | Auxiliary Control Bldg Cable Riser Gallery Elevation 50'-0" | 2 | 29 |
| 2-AC-50-38 | Auxiliary Control Bldg HVAC Room 2A Elevation 50'-0" | 1 | |
| 2-AC-50-39 | Auxiliary Control Bldg HVAC Room 2B Elevation 50'-0" | 1 | |
| 2-AC-50-40 | Auxiliary Control Bldg Switchgear Room 2A Elevation 50'-0" | 2 | |

INSERT 3 →

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|----------------|--|---------------|-----------|
| 2-AC-50-44 | Auxiliary Control Bldg Distribution Room 2B Elevation 50'-0" | 1 | |
| 2-AC-50-45 | Auxiliary Control Bldg Distribution Room 2D Elevation 50'-0" | 1 | |
| 2-AC-50-46 | Auxiliary Control Bldg Distribution Room 2C Elevation 50'-0" | 1 | |
| 2-AC-50-47 | Auxiliary Control Bldg Distribution Room 2A Elevation 50'-0" | 1 | |
| 2-AC-50-48 | Auxiliary Control Bldg Battery Room 2A Elevation 50'-0" | 1 | |
| 2-AC-50-49 | Auxiliary Control Bldg Battery Room 2C Elevation 50'-0" | 1 | |
| 2-AC-50-50 | Auxiliary Control Bldg Battery Room 2D Elevation 50'-0" | 1 | |
| 2-AC-50-51 | Auxiliary Control Bldg Battery Room 2B Elevation 50'-0" | 1 | |
| 2-AC-70-63 | Auxiliary Control Bldg Cable Riser Gallery Elevation 70'-0" | 2 | 24 |
| 2-AR-9-87 | Auxiliary Radwaste Bldg Charging Pump Room Elevation 9'-0" | 1 | |
| 2-AR-9-88 | Auxiliary Radwaste Bldg Charging Pump Room Elevation 9'-0" | 1 | |
| 2-AR-9-89 | Auxiliary Radwaste Bldg Charging Pump Room Elevation 9'-0" | 1 | |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|-----------------|--|---------------|-----------|
| 2-AR-63-119 | Auxiliary Radwaste Bldg Cable Riser Gallery Elevation 63'-6" | 2 | 4 |
| 2-FH-17-122 | Fuel Handling Bldg Fuel Pool Pump Room Elevation 17'-0" | 2 | |
| 2-FH-17-123 | Fuel Handling Bldg Spent Fuel Pool/Oper Floor Elevation 17'-0" | 7 | |
| 2-FH-45-130 | Fuel Handling Bldg A/C Room No. 2 Elevation 45'-0" | 1 | |
| | Charcoal Filter | 1** | |
| 2-FH-45-132 | Fuel Handling Bldg A/C Room No. 1 Elevation 45'-0" | 1 | |
| | Charcoal Filter | 1** | |
| 2-SE-(-5)-135B | Safety Equipment Bldg Train B CCW Pump Room Elevation (-)5'-0" | 1 | |
| 2-SE-(-5)-135C | Safety Equipment Bldg Spare CCW Pump Room Elevation (-)5'-0" | 1 | |
| 2-SE-(-5)-135D | Safety Equipment Bldg Train A CCW Pump Room Elevation (-)5'-0" | 1 | |
| 2-SE-(-15)-136 | Safety Equipment Bldg A/C Room Elevation 8'-0" | 3 | |
| 2-SE-(-15)-137A | Safety Equipment Bldg Safety Related Pump Room Elevation (-)15'-0" | 1 | |
| 2-SE-(-15)-137B | Safety Equipment Bldg Safety Related Pump Room Elevation (-)15'-0" | 1 | |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|------------------------|---|---------------|-----------|
| 2-SE-(-15)-137C | Safety Equipment Bldg Safety Related Pump Room Elevation (-)15'-0" | 1 | |
| 2-SE-8-140B | Safety Equipment Bldg Chemical Storage Room Elevation 8'-0" | 1 | |
| 2-SE-30-142A | Safety Equipment Bldg Electrical Tunnel Elevation 30'-0" | 17 | |
| | Section 1 | | 17 |
| | Section 2 | | 4 |
| | Section 3 | | 4 |
| | Section 4 | | 4 |
| | Section 5 | | 4 |
| | Section 6 | | 7 |
| 2-SE-30-145A | Safety Equipment Bldg Main Steam Relief Valves Elevation 30'-0" | 2 | |
| INSECT 4 → 2-TB-9-148F | Intake Structure Unit 2 Saltwater Cooling Pump Room Elevation 9'-0" | 4 | |
| 2-CT-(-2)-142B | Electrical Cable Tunnel Elevation (-)2'-0" | 21 | |
| | Section 7 | | 39 |
| | Section 8 | | 9 |
| | Section 9 | | 16 |
| | Section 10 | | 10 |
| 2-CT-16-142C | Cable Tunnel Cable Shaft Elevation 16'-0" | 1 | 21 |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|---------------------------|--|---------------|-----------|
| 2-DG-30-155 | Diesel Generator Bldg Diesel Generator Room B Elevation 30'-0" | 3 | 4 |
| 2-DG-30-158 | Diesel Generator Bldg Diesel Generator Room A Elevation 30'-0" | 3 | 4 |
| 2-TK-30-161A | Tank Building Auxiliary Feedwater Pump Room Elevation 30'-0" | 2 | 6 |
| | AFW Pumps P-504 & P-140 | | 9 |
| <u>COMMON AREAS</u> | | | |
| 2-AC-9-9 | Auxiliary Control Bldg Emergency Chiller Room Elevation 9'-0" | 2 | |
| 2-AC-9-11 | Auxiliary Control Bldg Emergency Chiller Room Elevation 9'-0" | 2 | |
| 2-AC-9-16 | Auxiliary Control Bldg Corridor Elevation 9'-0" | 4 | |
| INSERT 5 → 2-AC-30-20A | Auxiliary Control Bldg Control Room Elevation 30'-0" | 27*** | |
| | Control Room Panels | 19 | |
| INSERT 6 → 2-AC-50-29 | Auxiliary Control Bldg Lobby/Monitor Control Room Elevation 50'-0" | 12 | |
| 2-AC-50-43 | Auxiliary Control Bldg Evacuation Room Elevation 50'-0" | 1 | |
| INSERT 7 → 2-AC-70-64**** | Auxiliary Control Bldg Corridor Elevation 70'-0" | 10 | |
| 2-AR-37-102A | Auxiliary Radwaste Bldg Corridor Elevation 37'-0" | 9 | |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|---------------------------|--|---------------|-----------|
| 2-AR-50-111A | Volume Control Tank Rooms | 2 | |
| 2-AR-50-111B | Electrical Equipment & Receiving Area | 4 | |
| INSERT 9 → 2-TB-(-9)-148E | Intake Structure Saltwater Cooling Tunnel Elevation -9'-0" | 6 | |

- * The fire detection instruments located within the Containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.
- ** For charcoal filters, the thermistor strip detection system is required to be operable.
- *** On completion of DCP 2/3-6554.36TJ
- ****Area/Zone 2-AC-70-64 after Revision 4 of UFHA.

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|------------------------|---|---------------|-----------|
| 3-AC-9-6 | Auxiliary Control Bldg Cable Spreading Room Elevation 9'-0" | 14 | 36 |
| 3-AC-9-7 | Auxiliary Control Bldg Cable Riser Gallery Elevation 9'-0" | 7 | 39 |
| INSERT 10 → 2-AC-30-23 | Auxiliary Control Bldg Fan Room Elevation 30'-0" | 1 | |
| | Air Conditioner Charcoal Filter | 1** | |
| | Emergency Ventilation Charcoal Filter | 1** | |
| 3-AC-30-21 | Auxiliary Control Bldg Cable Riser Gallery Elevation 30'-0" | 3 | 52 |
| 3-AC-50-30 | Auxiliary Control Bldg HVAC Room 3B Elevation 50'-0" | 1 | |
| 3-AC-50-31 | Auxiliary Control Bldg HVAC Room 3A Elevation 50'-0" | 1 | |
| 3-AC-50-32 | Auxiliary Control Bldg Cable Riser Gallery Elevation 50'-0" | 2 | 27 |
| 3-AC-50-33 | Auxiliary Control Bldg Cable Riser Gallery Elevation 50'-0" | 1 | 13 |
| 3-AC-50-34 | Auxiliary Control Bldg Switchgear Room 3B Elevation 50'-0" | 2 | |
| 3-AC-50-52 | Auxiliary Control Bldg Battery Room 3B Elevation 50'-0" | 1 | |
| 3-AC-50-53 | Auxiliary Control Bldg Battery Room 3D Elevation 50'-0" | 1 | |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|------------------------|--|---------------|-----------|
| 3-AC-50-54 | Auxiliary Control Bldg Battery Room 3C Elevation 50'-0" | 1 | |
| 3-AC-50-55 | Auxiliary Control Bldg Battery Room 3A Elevation 50'-0" | 1 | |
| 3-AC-50-56 | Auxiliary Control Bldg Distribution Room 3A Elevation 50'-0" | 1 | |
| 3-AC-50-57 | Auxiliary Control Bldg Distribution Room 3C Elevation 50'-0" | 1 | |
| 3-AC-50-58 | Auxiliary Control Bldg Distribution Room 3D Elevation 50'-0" | 1 | |
| 3-AC-50-59 | Auxiliary Control Bldg Distribution Room 3B Elevation 50'-0" | 1 | |
| 3-AC-50-60 | Auxiliary Control Bldg Switchgear Room 3A Elevation 50'-0" | 2 | |
| INSERT 11 → 3-AC-70-65 | Auxiliary Control Bldg Cable Riser Gallery Elevation 70'-0" | 3 | 24 |
| 3-AR-9-91 | Auxiliary Radwaste Bldg Charging Pump Room Elevation 9'-0" | 1 | |
| 3-AR-9-92 | Auxiliary Radwaste Bldg Charging Pump Room Elevation 9'-0" | 1 | |
| 3-AR-9-93 | Auxiliary Radwaste Bldg Charging Pump Room Elevation 9'-0" | 1 | |
| 3-AR-63-118 | Auxiliary Radwaste Bldg Cable Tray Gallery Elevation 63'-0" | 2 | 4 |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|-------------------------|---|---------------|-----------|
| 3-SE-8-140B | Safety Equipment Bldg Chemical Storage Room Elevation 8'-0" | 1 | |
| 3-SE-30-142A | Safety Equipment Bldg Electrical Tunnel Elevation 30'-0" | 17 | |
| | Section 1 | | 15 |
| | Section 2 | | 4 |
| | Section 3 | | 4 |
| | Section 4 | | 4 |
| | Section 5 | | 4 |
| | Section 6 | | 7 |
| 3-SE-30-145A | Safety Equipment Bldg Main Steam Relief Valves Elevation 30'-0" | 2 | |
| INSERT 12 → 3-TB-9-148F | Intake Structure Unit 3 Saltwater Cooling Pump Room Elevation 9'-0" | 4 | |
| 3-CT-(-2)-142B | Electrical Cable Tunnel Elevation (-)2'-0" | 21 | |
| | Section 7 | | 39 |
| | Section 8 | | 9 |
| | Section 9 | | 16 |
| | Section 10 | | 10 |
| 3-CT-16-142C | Cable Tunnel Cable Shaft Elevation 16'-0" | 1 | 21 |
| 3-DG-30-155 | Diesel Generator Bldg Diesel Generator Room B Elevation 30'-0" | 3 | 4 |
| 3-DG-30-158 | Diesel Generator Bldg Diesel Generator Room A Elevation 30'-0" | 3 | 4 |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|------------------------|--|---------------|-----------|
| 3-TK-30-161A | Tank Building Auxiliary Feedwater Pump Room Elevation 30'-0" | 2 | 6 |
| | AFW Pumps P-504 & P-140 | | 9 |
| <u>COMMON AREAS</u> | | | |
| 2-AC-9-9 | Auxiliary Control Bldg Emergency Chiller Room Elevation 9'-0" | 2 | |
| 2-AC-9-11 | Auxiliary Control Bldg Emergency Chiller Room Elevation 9'-0" | 2 | |
| 2-AC-9-16 | Auxiliary Control Bldg Corridor Elevation 9'-0" | 4 | |
| INSERT 5 → 2-AC-30-20A | Auxiliary Control Bldg Control Room Elevation 30'-0" | 27*** | |
| | Control Room Panels | 19 | |
| INSERT 6 → 2-AC-30-23 | Auxiliary Control Bldg Fan Room Elevation 30'-0" | 1 | |
| | Air Conditioner Charcoal Filter | 1** | |
| | Emergency Ventilation Charcoal Filter | 1** | |
| 2-AC-30-26 | Auxiliary Control Bldg Fan Room Elevation 30'-0" | 1 | |
| | Air Conditioner Charcoal Filter | 1** | |
| | Emergency Ventilation Charcoal Filter | 1** | |
| 2-AC-50-29 | Auxiliary Control Bldg Lobby/Monitor Control Room Elevation 50'-0" | 12 | |

TABLE 3.3-11 (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|---------------------------|--|---------------|-----------|
| 2-AC-50-43 | Auxiliary Control Bldg Evacuation Room Elevation 50'-0" | 1 | |
| INSERT 7 → 2-AC-70-64**** | Auxiliary Control Bldg Corridor Elevation 70'-0" | 10 | |
| 2-AR-37-102A | Auxiliary Radwaste Bldg Corridor Elevation 37'-0" | 9 | |
| INSERT 8 → 2-AR-50-111A | Volume Control Tank Rooms | 2 | |
| 2-AR-50-111B | Electrical Equipment and Receiving Area | 4 | |
| INSERT 9 → 2-TB-(-9)-148E | Intake Structure Saltwater Cooling Tunnel Elevation -9'-0" | 6 | |

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

** For charcoal filters, the thermistor strip detection system is required to be operable.

*** On Completion of DCP 2/3-6554.36TJ

**** Area/Zone 2-AC-70-64 after Revision 4 of UFHA.

LIST OF INSERTS FOR REVISION TO PCN-243, TECHNICAL SPECIFICATION 3.3.3.7

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|-----------------------------|---|---------------|-----------|
| Insert 1: 2-AC-9-13 | Auxiliary Control Bldg Lighting Switchgear Room Elevation 9'-0" | 2 | |
| Insert 2: 2-AC-30-20C | Auxiliary Control Bldg Computer Room 2 Elevation 30'-0" | 6 | |
| Insert 3: 2-AC-50-41 | Auxiliary Control Bldg Distribution Room Elevation 50'-0" | 1 | |
| Insert 4: 2-TB-7-148A | Turbine Bldg Elevation 7'-0" (2L197Z05) | 5 | |
| | Elevation 30'-0" (2L198Z01) | 4 | |
| | (2L198Z04) | 4 | |
| | Elevation 56'-0" (2L198Z08) | 7 | |
| | (2L198Z09) | 8 | |
| Insert 5: 2-AC-9-17 | Auxiliary Control Bldg Relay Room Elevation 9'-0" | 3 | |
| Insert 6: 2-AC-30-20E | Auxiliary Control Bldg Lobby Elevation 30'-0" | 1 | |
| Insert 7: 2-AC-70-64**** | Auxiliary Control Bldg Corridor 401 Elevation 70'-0" | 4 | |
| | Radiochem Counting Rm 420 Elevation 70'-0" | 1 | |
| | Above Suspended Ceiling Elevation 70'-0" | 8 | |

LIST OF INSERTS (Continued)

| Fire Area/Zone | Instrument Location | Early Warning | Actuation |
|---------------------------|---|---------------|-----------|
| Insert 8: 2-AR-24-102B | Auxiliary Radwaste Bldg Equipment Room Elevation 24'-0" | 4 | |
| Insert 9: 2-AR-63-116 | Auxiliary Radwaste Bldg Corridor and Rooms Elevation 63'-6" | 4 | |
| Insert 10: 3-AC-30-20B | Auxiliary Control Bldg Computer Room 3 Elevation 30'-0" | 6 | |
| Insert 11: 3-AC-50-62 | Auxiliary Control Bldg Distribution Room Elevation 50'-0" | 1 | |
| Insert 12: 3-TB-7-148A | Turbine Bldg Elevation 7'-0" (3L197Z05) | 5 | |
| | Elevation 30'-0" (3L198Z01) | 4 | |
| | (3L198Z04) | 4 | |
| | Elevation 56'-0" (3L198Z08) | 7 | |
| | (3L198Z09) | 8 | |

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ENCLOSURE 2

REVISIONS TO PROPOSED
TECHNICAL SPECIFICATION 3.7.8.2,
"SPRAY AND/OR SPRINKLER SYSTEMS"

PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.8.2 The spray and/or sprinkler systems listed in Table 3.7-5 shall be OPERABLE.

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 outside containment in which redundant systems or components could be damaged; for other areas outside containment, establish an hourly fire watch patrol.*
- b. With one or more of the above required spray and/or sprinkler systems inside containment inoperable, restore the system to OPERABLE status within 24 hours or, in lieu of any other report required by Specification 6.9.1, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 7 days outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.8.2 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) outside of containment in the flow path is in its correct position.

* Not required for areas that pose temporary radiation and/or life-threatening safety hazards. If the fire watch/patrol cannot be restored within 24 hours, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 7 days outlining the action taken, the cause of the hazard and the plans and schedule for restoring the required fire watch/patrol.

**Fire hose will be run within 1 hour of entering the ACTION statement if an operable water supply is not available within 250 feet of the area protected by the inoperable spray and/or sprinkler system or 2-150 ft. hose packs (1-3/4") on the fire truck are not operable. Fire hose will be supplied by the fire brigade responding to a fire if an operable water supply is available within 250 feet of the area protected by the inoperable spray and/or sprinkler system.

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 31 days during each COLD SHUTDOWN or REFUELING by verifying that each valve (manual, power operated or automatic) inside containment in the flow path is in its correct position.
- c. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- d. At least once per 18 months*:
 - 1. By performing a system functional test which included simulated automatic actuation of the system, and:
 - a) Verifying that the automatic valves in the flow path actuate to their correct positions on a 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 wet pipe spray sprinkler headers to verify their integrity, and
 - 3. By a visual inspection of each spray/sprinkler head to verify the spray pattern is not obstructed.
- e. At least once per 3 years by performing an air flow test through each open head spray/sprinkler header and verifying each open head spray/sprinkler nozzle is unobstructed.

* At least once per refueling outage for those plant areas that are inaccessible during non-refueling plant operation.

TABLE 3.7-5

REQUIRED SPRINKLER AND SPRAY SYSTEMS

| Fire Area/Zone | Location of Protection | System Identifier | Type |
|----------------|---|----------------------------|--|
| 2-CO-15-1A | Reactor Coolant Pump 002 Reactor Coolant Pump 004 | SA2301MU472 SA2301MU470 | Deluge-Water Spray Deluge-Water Spray |
| 2-CO-15-1B | Reactor Coolant Pump 001 Reactor Coolant Pump 003 | SA2301MU473 SA2301MU471 | Deluge-Water Spray Deluge-Water Spray |
| 2-CO-15-1C | Charcoal Filters In Recirc Filtration Unit Elevation 45'-0" | SA2301MU229 | Manually Activated Deluge-Water Spray |
| 2-PE-30-2C | Charcoal Filters Elevation 30'-0" | SA2301MU230 | Manually Activated Deluge-Water Spray |
| 2-AC-9-5 | Cable Spreading Room Elevation 9'-0" | SA2301MU460 SA2301MU463 | Deluge-Water Spray |
| 2-AC-9-14 | Cable Riser Gallery Elevation 9'-0" | SA2301MU462 | Deluge-Water Spray |
| 2-AC-30-28 | Cable Riser Gallery Elevation 30'-0" | SA2301MU451 | Deluge-Water Spray |
| 2-AC-50-36 | Cable Riser Gallery West Portion Elevation 50'-0" | SA2301MU452 | Deluge-Water Spray |
| 2-AC-50-37 | Cable Riser Gallery East Portion Elevation 50'-0" | SA2301MU452 | Deluge-Water Spray |
| 2-AC-50-38 | HVAC Room 2A Elevation 50'-0" | SA2301MU455 | Wet Pipe |
| 2-AC-50-39 | HVAC Room 2B Elevation 50'-0" | SA2301MU455 | Wet Pipe |
| 2-AC-70-63 | Cable Riser Gallery | SA2301MU453 | Deluge-Water Spray |

TABLE 3.7-5 (Continued)

REQUIRED SPRINKLER AND SPRAY SYSTEMS

| Fire Area/Zone | Location of Protection | System Identifier | Type |
|----------------|---|-------------------|--|
| 2-AR-63-119 | Cable Riser Gallery Elevation 63'-6" | SA2301MU466 | Deluge-Water Spray |
| 2-SE-(-5)-135A | Piping/Heat Exchanger Room Elevation 8'-0" | SA2301MU582 | Wet Pipe |
| 2-SE-(-15)-136 | A/C Room Elevation 8'-0" | SA2301MU582 | Wet Pipe |
| 2-SE-30-142A | Electrical Tunnel Elevation 30'-0" | | Deluge-Water Spray |
| | Section 1 | SA2301MU434 | |
| | Section 2 | SA2301MU435 | |
| | Section 3 | SA2301MU433 | |
| | Section 4 | SA2301MU431 | |
| | Section 5 | SA2301MU430 | |
| | Section 6 | SA2301MU429 | |
| 2-FH-45-130 | Charcoal Filters Emergency AC Unit 370 Elevation 45'-0" | SA2301MU232 | Manually Activated Deluge-Water Spray |
| 2-FH-45-132 | Charcoal Filters Emergency AC Unit 371 Elevation 45'-0" | SA2301MU233 | Manually Activated Deluge-Water Spray |
| 2-TB-9-148F | Unit 2 Saltwater Cooling Pump Room | SA2301MU583 | Wet Pipe |
| 2-CT-(-2)-142B | Electrical Cable Tunnel | | Deluge-Water Spray |
| | Section 7 | SA2301MU428 | |
| | Section 8 | SA2301MU445 | |
| | Section 9 | SA2301MU446 | |
| | Section 10 | SA2301MU427 | |

TABLE 3.7-5 (Continued)

REQUIRED SPRINKLER AND SPRAY SYSTEMS

| Fire Area/Zone | Location of Protection | System Identifier | Type |
|----------------|--|----------------------------|--|
| 2-CT-16-142C | Cable Shaft | SA2301MU474 | Deluge-Water Spray |
| 2-DG-30-155 | Diesel Generator Rm B Elevation 30'-0" | SA2301MU468 | Pre-Action Sprinkler |
| 2-DG-30-158 | Diesel Generator Rm A Elevation 30'-0" | SA2301MU469 | Pre-Action Sprinkler |
| 2-TK-30-161A | Auxiliary Feedwater Pump Room Elevation 30'-0" | S22301MU498 S22301MU499 | Pre-Action Sprinkler Deluge-Water Spray |
| <u>COMMON</u> | | | |
| 2-AC-9-16 | Corridor Elevation 9'-0" | SA2301MU461 | Wet Pipe |
| 2-AC-30-23 | Emergency AC Unit E-418 | SA2301MU346 | Manually Activated Deluge-Water Spray |
| | Charcoal Filter A-207 | SA2301MU347 | Manually Activated Deluge-Water Spray |
| 2-AC-30-26 | Emergency AC Unit E-419 | SA2301MU235 | Manually Activated Deluge-Water Spray |
| | Fan Room Elevation 30'-0" | ^S SA2301MU450 | Wet Pipe |
| | Charcoal Filter A-206 | SA2301MU234 | Manually Activated Deluge-Water Spray |
| 2-AC-30-27 | Corridor Elevation 30'-0" | SA2301MU450 | Wet Pipe |
| 2-AC-50-29 | Lobby/Monitor Control Room | SA2301MU455 | Wet Pipe |
| 2-AC-70-64* | Corridor Elevation 70'-0" | SA2301MU454 | Wet Pipe |
| 2-TB-(-9)-148E | Saltwater Cooling Tunnel | SA2301MU583 SA2301MU495 | Wet Pipe |

*Area/Zone 2-AC-70-64 after Revision 4 of UFHA.

PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.8.2 The spray and/or sprinkler systems listed in Table 3.7-5 shall be OPERABLE.

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 outside containment in which redundant systems or components could be damaged; for other areas outside containment, establish an hourly fire watch patrol.*
- b. With one or more of the above required spray and/or sprinkler systems inside containment inoperable, restore the system to OPERABLE status within 24 hours or, in lieu of any other report required by Specification 6.9.1, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 7 days outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.8.2 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) outside of containment in the flow path is in its correct position.

* Not required for areas that pose temporary radiation and/or life-threatening safety hazards. If the fire watch/patrol cannot be restored within 24 hours, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 7 days outlining the action taken, the cause of the hazard and the plans and schedule for restoring the required fire watch/patrol.

**Fire hose will be run within 1 hour of entering the ACTION statement if an operable water supply is not available within 250 feet of the area protected by the inoperable spray and/or sprinkler system or 2-150 ft. hose packs (1-3/4") on the fire truck are not operable. Fire hose will be supplied by the fire brigade responding to a fire if an operable water supply is available within 250 feet of the area protected by the inoperable spray and/or sprinkler system.

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 31 days during each COLD SHUTDOWN or REFUELING by verifying that each valve (manual, power operated or automatic) inside containment in the flow path is in its correct position.
- c. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- d. At least once per 18 months*:
 - 1. By performing a system functional test which included simulated automatic actuation of the system, and:
 - a) Verifying that the automatic valves in the flow path actuate to their correct positions on a 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 wet pipe spray sprinkler headers to verify their integrity, and
 - 3. By a visual inspection of each spray/sprinkler head to verify the spray pattern is not obstructed.
- e. At least once per 3 years by performing an air flow test through each open head spray/sprinkler header and verifying each open head spray/sprinkler nozzle is unobstructed.

* At least once per refueling outage for those plant areas that are inaccessible during non-refueling plant operation.

TABLE 3.7-5

REQUIRED SPRINKLER AND SPRAY SYSTEMS

| Fire Area/Zone | Location of Protection | System Identifier | Type |
|----------------|---|----------------------------|--|
| 3-CO-15-1A | Reactor Coolant Pump 002 | SA2301MU506 | Deluge-Water Spray |
| | Reactor Coolant Pump 004 | SA2301MU507 | Deluge-Water Spray |
| 3-CO-15-1B | Reactor Coolant Pump 001 | SA2301MU504 | Deluge-Water Spray |
| | Reactor Coolant Pump 003 | SA2301MU505 | Deluge-Water Spray |
| 3-CO-15-1C | Charcoal Filters In Recirc Filtration Unit Elevation 45'-0" | SA2301MU348 | Manually Activated Deluge-Water Spray |
| 3-PE-30-2C | Charcoal Filters Elevation 30'-0" | SA2301MU349 | Manually Activated Deluge-Water Spray |
| 3-AC-9-6 | Cable Spreading Room Elevation 9'-0" | SA2301MU464 SA2301MU465 | Deluge-Water Spray |
| 3-AC-9-7 | Cable Riser Gallery Elevation 9'-0" | SA2301MU459 | Deluge-Water Spray |
| 3-AC-30-21 | Cable Riser Gallery Elevation 30'-0" | SA2301MU458 | Deluge-Water Spray |
| 3-AC-50-30 | HVAC Room 3B Elevation 50'-0" | SA2301MU455 | Wet Pipe |
| 3-AC-50-31 | HVAC Room 3A Elevation 50'-0" | SA2301MU455 | Wet Pipe |
| 3-AC-50-32 | Cable Riser Gallery East Portion Elevation 50'-0" | SA2301MU457 | Deluge-Water Spray |
| 3-AC-50-33 | Cable Riser Gallery West Portion Elevation 50'-0" | SA2301MU457 | Deluge-Water Spray |
| 3-AC-70-65 | Cable Riser Gallery Elevation 70'-0" | SA2301MU456 | Deluge-Water Spray |
| 3-AR-63-118 | Cable Riser Gallery Elevation 63'-0" | SA2301MU467 | Deluge-Water Spray |

TABLE 3.7-5 (Continued)

REQUIRED SPRINKLER AND SPRAY SYSTEMS

| Fire Area/Zone | Location of Protection | System Identifier | Type |
|----------------|---|-------------------|--|
| 3-SE-(-5)-135A | Piping/Heat Exchanger Room Elevation 8'-0" | SA2301MU480 | Wet Pipe |
| 3-SE-(-15)-136 | A/C Room Elevation 8'-0" | SA2301MU480 | Wet Pipe |
| 3-SE-30-142A | Electrical Tunnel Elevation 30'-0" | | Deluge-Water Spray |
| | Section 1 | SA2301MU477 | |
| | Section 2 | SA2301MU478 | |
| | Section 3 | SA2301MU479 | |
| | Section 4 | SA2301MU481 | |
| | Section 5 | SA2301MU482 | |
| | Section 6 | SA2301MU483 | |
| 3-FH-45-130 | Charcoal Filters Emergency AC Unit E-370 Elevation 45'-0" | SA2301MU351 | Manually Activated Deluge-Water Spray |
| 3-FH-45-132 | Charcoal Filter Emergency AC Unit E-371 Elevation 45'-0" | SA2301MU352 | Manually Activated Deluge-Water Spray |
| 3-TB-9-148F | Unit 3 Saltwater Cooling Pump Room | SA2301MU495 | Wet Pipe |
| 3-CT-(-2)-142B | Electrical Cable Tunnel | | Deluge-Water Spray |
| | Section 7 | SA2301MU484 | |
| | Section 8 | SA2301MU500 | |
| | Section 9 | SA2301MU501 | |
| | Section 10 | SA2301MU485 | |

TABLE 3.7-5 (Continued)

REQUIRED SPRINKLER AND SPRAY SYSTEMS

| Fire Area/Zone | Location of Protection | System Identifier | Type |
|----------------|--|--|--|
| 3-CT-16-142C | Cable Shaft | SA2301MU503 | Deluge-Water Spray |
| 3-DG-30-155 | Diesel Generator Rm. B Elevation 30'-0" | SA2301MU496 | Pre-Action Sprinkler |
| 3-DG-30-158 | Diesel Generator Rm. A Elevation 30'-0" | SA2301MU497 | Pre-Action Sprinkler |
| 3-TK-30-161A | Auxiliary Feedwater Pump Room Elevation 30'-0" | S32301MU498 S32301MU499 2 | Pre-Action Sprinkler Deluge-Water Spray |
| <u>COMMON</u> | | | |
| 2-AC-9-16 | Corridor Elevation 9'-0" | SA2301MU461 | Wet Pipe |
| 2-AC-30-23 | Emergency At Unit E-418 Charcoal Filter A-207 | SA2301MU346 SA2301MU347 | Manually Activated Deluge-Water Spray Manually Activated Deluge-Water Spray |
| 2-AC-30-26 | Emergency AC Unit E-419 Fan Room Elevation 30'-0" Charcoal Filter A-206 | SA2301MU235 S 2A2301MU450 SA2301MU234 | Manually Activated Deluge-Water Spray Wet Pipe Manually Activated Deluge-Water Spray |
| 2-AC-30-27 | Corridor Elevation 30'-0" | SA2301MU450 | Wet Pipe |
| 2-AC-50-29 | Lobby/Monitor Control Room | SA2301MU455 | Wet Pipe |
| 2-AC-70-64* | Corridor Elevation 70'-0" | SA2301MU454 | Wet Pipe |
| 2-TB-(-9)-148E | Saltwater Cooling Tunnel | SA2301MU583 SA2301MU495 | Wet Pipe |
| 3-TB-9-148F | Unit 3 Saltwater Cooling Pump Room | SA2301MU495 | Wet Pipe |

*Area/Zone 2-AC-70-64 after Revision 4 of UFHA.