

This is a controlled copy of the Unit 1 Defueled Technical Requirements Manual  
Current to Amendment/ Change No. 57  
Updated by L. Scruggs

Technical Requirements Manual

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# TECHNICAL REQUIREMENTS - DEFINITIONS

Table 1:

Subsection Title	Reference Number	Rev No.
<b>Definitions</b>	<b>1.0</b>	<b>0</b>

Table 2:

PORC Mtg. No.: <u>1-99-070</u>	PORC Approval Date: <u>11/16/99</u>
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Approval

Director, Unit 1 Operations: signature on record Effective Date: 11/18/99

## **OBJECTIVE:**

To add definitions used in conjunction with the Technical Requirements Manual that were formerly in the Technical Specifications.

## **DEFINITIONS:**

### **1. Instrument or Channel Calibration**

An INSTRUMENT or CHANNEL CALIBRATION shall be the adjustment, as necessary, of the channel output such that it responds within the necessary range and accuracy to known values of the parameter that the channel monitors. The INSTRUMENT or CHANNEL CALIBRATION shall encompass those components, such as sensors, alarms, displays, and trip functions, required to perform the specified safety functions. The INSTRUMENT or CHANNEL CALIBRATION shall include the INSTRUMENT or CHANNEL FUNCTIONAL TEST. Calibration of instrument channels with resistance temperature detector (RTD) or thermocouple sensors may consist of an in place qualitative assessment of sensor behavior and normal calibration of the remaining adjustable devices in the channel. The INSTRUMENT or CHANNEL CALIBRATION may be performed by means of any series of sequential, overlapping, or total channel steps so that the entire channel is calibrated.

LEVEL OF USE  
INFORMATION



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1 of 2

**DEFINITIONS: (Continued)**

**2. Instrument or Channel Functional Test**

An INSTRUMENT or CHANNEL FUNCTIONAL TEST shall be the injection of a simulated or actual signal into the channel as close to the sensor as practicable to verify OPERABILITY, including all components in the channel, such as alarms, interlocks, displays, and trip functions, required to perform the specified safety functions. The INSTRUMENT or CHANNEL FUNCTIONAL TEST may be performed by means of any series of sequential, overlapping, or total channel steps so that the entire channel is tested.

**3. Instrument Check**

An INSTRUMENT CHECK is qualitative determination of operability by observation of behavior during operation. This determination shall include, where possible, comparison of the instrument with other independent instruments measuring the same variables

**4. Staggered Test Basis**

STAGGERED TEST BASIS shall consist of:

- a) A test schedule for n systems, subsystems, trains or other designated components obtained by dividing the specified test interval into n equal subintervals, and
- b) The testing of one system, subsystem, train, or other designated component at the beginning of each subinterval.





# TECHNICAL REQUIREMENTS - ADDITIONAL REQUIREMENT

Subsection Title	Reference Number	Rev No.
<b>DELETED</b>	<b>2.0</b>	<b>2</b>

PORC Mtg. No.: 1-01-001

PORC Approval Date: 01/03/2001

# DELETED

LEVEL OF USE  
INFORMATION



U1-TRM-02  
Rev. 2  
1 of 1

# TECHNICAL REQUIREMENTS - ADDITIONAL REQUIREMENT

Subsection Title	Reference Number	Rev No.
<b>Spent Fuel Pool Water Temperature</b>	<b>273-3/4.10.G</b>	<b>2</b>

PORC Mtg. No.: _____ 1-01-005 _____	PORC Approval Date: <u>01/18/2001</u>
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## LIMITING CONDITION FOR OPERATION

Spent fuel pool bulk water temperature shall be maintained less than or equal to 140°F at all times.

## ACTION

If the requirement above is not met, initiate action to restore cooling to the spent fuel pool.

## SURVEILLANCE REQUIREMENT

Verify the spent fuel pool bulk water temperature is  $\leq 140^{\circ}\text{F}$  once every twenty-four (24) hours.

## BASES

The requirement to maintain the spent fuel pool bulk water temperature  $\leq 140^{\circ}\text{F}$  ensures that high water temperature will not degrade the resin in the spent fuel pool demineralizer, the fuel pool structure, pool liner, fuel racks, or external cooling system.

LEVEL OF USE  
INFORMATION



273-3/4.10.G  
Rev. 2  
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# TECHNICAL REQUIREMENTS

Subsection Title <b>DELETED</b>	Reference Number <b>5.0</b>	Rev No. <b>3</b>
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FSRC Mtg. No.: <u>MP-10-008</u>	FSRC Approval Date: <u>02/02/10</u>
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# DELETED

LEVEL OF USE  
INFORMATION



U1-TRM-05  
Rev. 3  
1 of 1

# TECHNICAL REQUIREMENTS

## 6.0 Fire Protection

### 6.0.1 OBJECTIVE:

To ensure the Unit 1 associated fire systems and equipment are properly maintained and surveilled. By complying with these measures the Unit is protected from radiological hazard due to fire.

### 6.0.2 INDEX OF CONTENTS:

SECTION	TITLE	PAGE
	Definitions/ Administrative Requirements	2
6.1	Fire Suppression Water System	3
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### 6.0.3 BASES:

It is the intent of this Technical Requirement to maintain existing fire protection features for Unit 1 if

1. they protect SSCs which could result in a radiological hazard in a fire or
2. provide protection to Units 2 or 3.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.0.4 DEFINITIONS**

None

#### **6.0.5 ADMINISTRATIVE REQUIREMENTS:**

1. A site Fire Brigade of at least 5 members shall be maintained on site at all times. The on shift operations crew will supply a Fire Brigade Advisor (FBA), when needed.
2. A training program for the Fire Brigade shall meet or exceed the requirements of Section 27 of the NFPA Code-1975, except that Fire Brigade training sessions shall be held at least quarterly.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.1 FIRE SUPPRESSION WATER SYSTEM**

##### **6.1.1 LIMITING CONDITION FOR OPERATION:**

1. The fire suppression water system shall be OPERABLE with:
  - a. Three high pressure pumps, each with a capacity of at least 1,800 gpm, with pump discharge aligned to the fire suppression header,
  - b. Two water supplies, each with a minimum contained volume of 200,000 gallons, and
  - c. An OPERABLE flow path capable of taking suction from the fire water tanks and transferring water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant curb valves and the first valve ahead of the water flow alarm device on each hose standpipe required to be OPERABLE per Technical Requirement [6.4.1](#).

##### **6.1.2 APPLICABILITY:**

At all times.

##### **6.1.3 ACTION:**

- a. With one pump and/or one water supply inoperable:
  1. Restore the inoperable equipment to OPERABLE status within 7 days **OR**
  2. Provide an alternate backup pump or water supply within 24 hours **AND** develop a plan and schedule, within 14 days, for restoring the system to OPERABLE status.
- b. With two pumps inoperable:
  1. Terminate all non-critical cutting, welding and grinding, within one hour **AND**
  2. Provide an alternate backup pump within 24 hours **AND**
  3. Restore the inoperable equipment to OPERABLE status within 7 days **OR** develop a plan and schedule, within 14 days, for returning the equipment to OPERABLE status.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.1.3 ACTION: (continued)**

- c. With the Fire Suppression Water System otherwise inoperable:
  1. Terminate all non-critical cutting, welding and grinding, within one hour **AND**
  2. Restore the fire suppression water distribution system to OPERABLE within 24 hours **OR**
  3. Establish a back up Fire Suppression Water System within 24 hours **AND** develop a plan and schedule, within 14 days, for restoring the system to OPERABLE status.

#### **6.1.4 SURVEILLANCE:**

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, on a STAGGERED TEST BASIS, by starting each electric motor-driven 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.
  - d. At least once per 12 months, by cycling each valve in the flow path through at least one complete cycle of full travel (except valve 1-FIRE-71).
  - e. 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 each fire pump develops at least 1,800 gpm at a pump differential pressure of 100 psid, and,
    2. Verifying each pump starts (sequentially) to maintain the fire suppression water system pressure greater than or equal to 75 psig.
  - f. At least once per 5 years, by performing a flow test of the system, in accordance with National Fire Code 25 (Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems) Section 4-4.1.1 Flow Tests.
  - g. The fire pump diesel engine shall be demonstrated OPERABLE:
    1. At least once per 31 days, by verifying:
      - a. The fuel storage tank contains at least 125 gallons of fuel, and

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.1.4 SURVEILLANCE: (Continued)**

- b. The fire pump diesel engine starts from ambient conditions and operates for at least 30 minutes, while loaded with the fire pump on recirculation flow.
2. At least once per 92 days, by verifying a sample of diesel fuel from the fuel storage tank, obtained in accordance with ASTM D270-65, is within the acceptable limits specified in Table 1 of ASTM D975-74 when checked for viscosity, water content, and sediment.
3. At least once per 18 months, by subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service.
4. The fire pump diesel starting 12-volt batteries and charger shall be demonstrated OPERABLE:
  - a. At least once per 7 days, by verifying:
    1. The electrolyte level of each battery cell is above the plates, and
    2. The voltage of each battery 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 batteries.
  - c. At least once per 18 months, by verifying:
    1. The batteries, cell plates, 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 anti -corrosion material.



## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.1.5 BASES:**

1. The OPERABILITY of the fire suppression system ensures adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of Unit 1. The fire suppression system consists of high pressure fire pumps, water supply tanks, fire hydrants, fire hose stations and distribution piping and valves. The collective capability of the fire suppression system is adequate to minimize potential damage to plant SSCs and is a major element in the facility Fire Protection Program.
2. 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.
3. In the event the fire suppression water system becomes inoperable, immediate corrective measure must be taken since this system provides the major fire suppression capability of the plant.
4. Cessation of cutting, welding, and grinding in the event of major system impairment will reduce the probability of fire by removing the major ignition source in the decommissioning effort.
5. It is the intent of monthly diesel engine fire pump testing to conduct this test during a different week than electric motor pump testing. Nominal monthly (“once per 31 days”) and 18 month surveillance requirements are consistent with the Unit 2 and 3 surveillance requirements. The surveillance procedures for each of the three fire pumps are common to Units 1, 2 and 3. (See AR 97026324-03 for additional information).
6. Valve 1-FIRE-71 is non-testable. It is the isolation valve for Fire System piping, which has been removed from the Gas Turbine Building.

## TECHNICAL REQUIREMENTS

### 6.0 Fire Protection

### 6.2 DELETED

## TECHNICAL REQUIREMENTS

### 6.0 Fire Protection

### 6.3 DELETED

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.4 FIRE HOSE STATIONS**

##### **6.4.1 LIMITING CONDITIONS FOR OPERATIONS:**

1. The fire hose stations listed in Table 1 shall be OPERABLE.

##### **6.4.2 APPLICABILITY:** At all times when equipment in the area is OPERABLE.

##### **6.4.3 ACTION:**

1. With one or more of the fire hose stations listed in Table 1 inoperable, route an additional equivalent capacity fire hose to the unprotected area(s) from an available hose station within 1 hour.

##### **6.4.4 SURVEILLANCE:**

1. Each of the fire hose station listed in Table 1 shall be demonstrated OPERABLE:
  - a. At least once per 31 days, by visual inspection of the hose station to assure all required equipment is at the station.
  - b. At least once per 18 months by:
    1. Removing the hose for inspection and re-racking, and
    2. Replacement of all degraded gaskets in 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 at least 50 psig greater than the maximum pressure available at that hose station.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.4.5 BASES:**

1. The OPERABILITY of the hose stations ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where there are SSCs which could result in a radiological hazard.
2. In the event that a hose station is inoperable, alternate backup fire fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service.
3. In the event a fire hose station becomes inoperable, immediate corrective measure must be taken (within 1 - hr) since this system provides the major manual fire suppression capability of the plant.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

### **6.5 FIRE DOORS**

#### **6.5.1 LIMITING CONDITIONS FOR OPERATIONS:**

1. All fire doors listed in Table 2 shall be FUNCTIONAL.

**6.5.2 APPLICABILITY:** At all times when equipment in the area is needed to support Unit 2.

#### **6.5.3 ACTION:**

1. With one or more of the above required doors non-functional:
  - a. If the door is common with Unit 2 notify the Unit 2 SM/US immediately.
  - b. If the door is not common with Unit 2 within 1 hour:
    1. Verify that the area/zones on at least one side of the affected fire rated door contains an OPERABLE fire detection or automatic suppression system at the fire door and establish a fire watch patrol that inspects both areas at least once per hour. Roving fire watches must monitor the area of the device in question, as a minimum, within the specified time frame, plus or minus 25% of the time interval specified in the action statement for periodic roving fire watches. The 25% extension of the time interval specified does not degrade the reliability that results from performing the rove at the specified interval, based on plant experience, and Fire Protection Engineering analysis as documented in technical evaluation M3-EV-02-2005, or
    2. Establish a continuous fire watch on at least one side of the door, or
    3. Temporarily repair the inoperable fire door and classify it as temporary. Temporary repair is acceptable for 30 days. If a permanent repair can not be completed within 30 days, implement Technical Requirement 6.5.3, Action 1.b(1) or 1.b(2) above.

#### **6.5.4 SURVEILLANCE:**

1. Each of the fire doors listed in Table 2 shall be demonstrated OPERABLE by visual inspection once per 18 months.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.5.5 BASES:**

1. The functional integrity of fire doors needs to be maintained to assure that a fire in Unit 1 does not threaten Unit 2.
2. Fire doors are inspected to ensure that their integrity and OPERABILITY is maintained. Due to technical differences in the fire doors/dampers and the fire penetration seal material, the requirement for inspection of the fire door and dampers has been specifically identified as requiring 100% inspection every 18 months.
3. Roving fire watches must monitor the area of the device in question, as a minimum, within the specified time frame, plus or minus 25% of the time interval specified in the action statement for periodic roving fire watches. The 25% extension of the time interval specified does not degrade the reliability that results from performing the rove at the specified interval, based on plant experience, and Fire Protection Engineering analysis as documented in technical evaluation M3-EV-02-2005.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.6 FIRE DETECTION INSTRUMENTATION**

##### **6.6.1 LIMITING CONDITIONS FOR OPERATIONS:**

1. The minimum required fire detection instrumentation for each fire detection zone listed in Table 3 shall be OPERABLE.

**6.6.2 APPLICABILITY:** At all times when equipment in the area is OPERABLE.

##### **6.6.3 ACTION:**

1. With less than the minimum required number of the fire detection instrument(s) listed in Table 3 OPERABLE, notify the Site Fire Marshal.
2. Deactivation of detectors or detection system is permitted for one-hour for the purpose of maintenance and performance of required tests, checks and calibrations without the above notifications.

##### **6.6.4 SURVEILLANCE:**

1. The fire detection instruments listed in Table 3 shall be demonstrated OPERABLE at least once per 6 months by performance of an INSTRUMENT FUNCTIONAL TEST with the exception that the functional test may consist of injecting a simulated electrical signal into the measurement channel rather than the instrument.
2. The non-supervised circuits between the above required detection instruments and the Control Room shall be demonstrated OPERABLE at least once per 31 days, per approved procedures.



## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

#### **6.6.5 BASES:**

1. 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 a radiological hazard in a fire and is an integral element in the overall facility fire protection program.
2. Performance of inspection, testing, minor maintenance or calibration of detectors of detection systems that can be done in (1) hour or less does not require notifications. This is acceptable because testing personnel would be in the area of lost coverage during this inspection/testing evolution.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

### **6.7 PENETRATION FIRE BARRIERS**

#### **6.7.1 LIMITING CONDITIONS FOR OPERATIONS:**

1. Penetration fire barriers (including cable penetration fire barriers, and fire dampers) shall be FUNCTIONAL for the following areas:
  - Fire barriers surrounding the Unit 1 Control Room,
  - Unit 1/Unit 2 common fire barriers.

**6.7.2 APPLICABILITY:** At all times when equipment in the area is needed to support Unit 2.

#### **6.7.3 ACTION:**

1. With one or more of the above required barriers non-functional:
  - a. If the barrier is common with Unit 2 notify the Unit 2 SM/US immediately.
  - b. If the barrier is not common with Unit 2 within 1 hour:
    1. Verify that the area/zones on at least one side of the affected fire rated barrier contains 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. Roving fire watches must monitor the area of the device in question, as a minimum, within the specified time frame, plus or minus 25% of the time interval specified in the action statement for periodic roving fire watches. The 25% extension of the time interval specified does not degrade the reliability that results from performing the rove at the specified interval, based on plant experience, and Fire Protection Engineering analysis as documented in technical evaluation M3-EV-02-2005, or
    2. Establish a continuous fire watch on at least one side of the barrier, or
    3. Temporarily repair the inoperable fire barrier and classify it as temporary. Temporary repair is acceptable for 30 days. If a permanent repair can not be completed within 30 days, implement Technical Requirement 6.7.3, Action 1.b(1) or 1.b(2) above.

#### **6.7.4 SURVEILLANCE:**

1. Penetration fire barriers shall be verified to be OPERABLE by a visual inspection:
  - a. At least once per 18 months for fire dampers.

## TECHNICAL REQUIREMENTS

### **6.0 Fire Protection**

- 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 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 penetration fire barrier to OPERABLE status following repairs or maintenance.

### **6.7.5 BASES:**

The functional integrity of the penetration fire barriers ensures that fires will be confined or adequately retarded from spreading to Unit 2. The penetration fire barriers are a passive element in the facility fire protection program and are subject to periodic inspections.

Temporary barriers are allowed to be maintained for a period of up to 30 days, to allow for a sufficient time for repair.

The surveillance requirements for all fire barriers will be verified OPERABLE on a sample basis. Past inspections of 100% of the fire barriers have resulted in a trend that showed a decreasing number of seal failures. This increased reliability has been attributed to improvements in the fire penetration seal program through increased operating experience with penetration seal material and manufacturer's technical data regarding seal degradation over time. Manufacturer's data indicates that there is no degradation with age and virtually no maintenance requirements for properly installed seals. Training on proper installation of fire seal material as well as tracking of breached fire seals has also improved the reliability.

Plant design changes receive a fire protection review. This review specifically addresses the need to reinstate any new or existing fire barrier penetration seals as part of the work closeout requirements. This provision provides assurance that maintenance and construction work will not result in non-functional fire barriers. Under the Millstone Unit 1 penetration seal reconciliation program, boundary and barrier maps are now developed and used to ensure plant design changes involving penetration seals/fire barriers receive an appropriate fire protection review and are updated accordingly. Fire Inspection by many groups and agencies provide a random check of penetration seals above and beyond the proposed surveillance requirements of the Fire Protection System Technical Requirements.

Penetration seals are not the last line of defense in preventing a fire from affecting two areas/zones. Many other fire protection features such as fire detection and automatic suppression systems exist. Random inspections (with additional random inspections when affected fire seals exist) should show a good statistical representation of the general seal population without detracting from the fire protection features at Millstone Unit 1.

Roving fire watches must monitor the area of the device in question, as a minimum, within the specified time frame, plus or minus 25% of the time interval specified in the action statement for periodic roving fire watches. The 25% extension of the time interval specified does not degrade the reliability that results from performing the rove at the specified interval, based on plant experience, and Fire Protection Engineering analysis as documented in technical evaluation M3-EV-02-2005.

TECHNICAL REQUIREMENTS

**TABLE 1**  
(page 1 of 1)

LOCATION OF HOSE STATION

Hose Station No.	Location
2-HS-261	East Wall Control Room, 36'
1-HS-150	Solid Radwaste NW Corner, 14'6"
1-HS-152	Solid Radwaste SE Corner, 14'6"

TECHNICAL REQUIREMENTS

**TABLE 2**  
(page 1 of 1)

FIRE DOORS

FIRE DOOR NO.		LOCATION
CONTROL ROOM		
T-34-3	(SD145)	CONTROL ROOM, EAST DOOR
T-34-1	(SD146)	CONTROL ROOM, WEST DOOR
T-34-15	(118/36/008)	CONTROL ROOM DOOR
T-34-2	(SD147)	VIEWING GALLERY, WEST DOOR

# TECHNICAL REQUIREMENTS

**TABLE 3**  
(page 1 of 1)

## FIRE DETECTION INSTRUMENTS

INSTRUMENT LOCATION	HEAT		SMOKE	
	Total Available	Minimum Instruments Required	Total Available	Minimum Instruments Required
Control Room (RD-3)	-	-	28	26*

\*Inoperable detectors must be from separate detection zones.

## TECHNICAL REQUIREMENTS - ADDITIONAL REQUIREMENT

Subsection Title	Reference Number	Rev No.
Unit 1 SSCs That Interface With Units 2 or 3	7.0	10

### **OBJECTIVE:**

This TRM requires notification of Unit 2 or Unit 3 Operations whenever Unit 1 can not provide specified support to Unit 2 or Unit 3. The support functions are listed in Tables 1 and 2 for Unit 2 and Table 3 for Unit 3. These tables identify the key Unit 1 operational functions supporting Unit 2 or Unit 3 which are part of the Unit 2 or Unit 3 Licensing Basis.

(For a more complete list of operations functions supporting the other two units' Licensing Bases, refer to Unit 1 Operations Manual Section 10.4, "Millstone One System Interfaces with Millstone Two and Millstone Three".)

### **DEFINITIONS:**

1. **ACTIONS:** Shall be that part of a specification that prescribes required responses to be taken under designated conditions within specified completion times.
2. **DB:** Design Basis
3. **Deleted.**
4. **PMH:** Probable Maximum Hurricane
5. **SSC:** Systems, Structures, or Components
6. **TYPE A:** Indicates that the functions performed by the SSC are actually credited or discussed in the Unit 2 or Unit 3 Licensing Basis.
7. **TYPE B:** Indicates that the function provided is in support of Type A items.

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## **REFERENCES:**

1. Millstone Unit 1 Technical Requirements Manual, Change 30, Date 12/15/98
2. Millstone Unit 1 Operations Manual, Section 10.4, "Millstone One System Interfaces with Millstone Two and Millstone Three," Rev.1, Date 2/10/99.
3. Deleted.
4. Deleted.
5. Unit 2 Technical Evaluation, M2-EV-98-0201 Rev.0, Date 01/26/99, "Verification of Units 1 & 3 SSC Support of Unit 2"
6. Condition Report, M1-96-0479/AR # 96029396
7. Deleted.
8. Deleted.
9. Deleted.
10. "Millstone Unit 2 10CFR50 Appendix R Compliance Report", Rev.2, Date September 1994 and Rev.3, Date 2/25/99.
11. Unit 1 Technical Evaluation M1-EV-99-0001, Rev. 0, Date 2/24/99 "Unit 1 TRM Change Request TRMCR 99-1-1".
12. DCR No. M2-97043 Rev.1 Dated 1/22/99 "Piping Cross Tie Between Fire Protection and Service Water Systems".
13. Unit 3 Technical Evaluation M3-EV-99-006, Rev. 0, Date 8/17/99 "MP1 Equipment Credited by MP3".
14. Evaluation FP-EV-98-0050 "Separation of the Millstone Unit 1 and Millstone Unit 2 Control Rooms"

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**LIMITING CONDITION FOR OPERATION:**

1. When any of the Unit 1 **Systems, Structures, or Components** listed on **TABLE 1** are affected for any reason such that their ability to meet the requirements of Unit 2 is suspect.
2. Deleted.
3. When any of the Unit 1 **Systems, Structures, or Components** listed on **TABLE 3** are affected for any reason such that their ability to meet the requirements of Unit 3 is suspect.

**ACTION:**

1. For LCO 1, the Unit 2 SM/US shall be immediately notified.
2. For LCO 3, the Unit 3 SM/US shall be immediately notified.

**SURVEILLANCE:**

1. None

**BASIS:**

1. The purpose of this section of the Basis is to show how the SSCs and their functions in this section were selected. To be included, each SSC and function had to meet all of the following criteria:
  - a. Be a Licensing Basis or Design function.
  - b. Be related to the Configuration Management Plan (CMP).
  - c. Be Operational in nature.

CMP related is defined as either:

- a. Safety related or risk related as defined by the Maintenance Rule Program, or
- b. Supporting a Unit 2/Unit 3 CMP related program; Flooding, Appendix R, Fire Protection, Reg. Guide 1.97, Seismic, or High Energy Line Break, or
- c. Included in Unit 2/Unit 3 Technical Specifications or TRM.

These SSCs and functions were identified and grouped into this TRM to assist the operators in determining the functional needs of Units 2 and 3.

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**BASIS:** (Continued)

Licensing Basis functions of a purely design nature are not included. This TRM section is not intended as a source for design information. For further information on the origin of each item in the table, see Reference 5 and Reference 13.

Table 1, "UNIT 1 SSCs THAT SUPPORT UNIT 2 FUNCTION OR LICENSE BASIS" was created from information contained in Unit 2 Technical Evaluation M2-EV-98-0201, Table 3.1-5, "Requirements to Complete Validation of Unit 1 Support." Table 3.1-5 contains both operational and design information. The design information has not been included in Table 1 of this TRM. Additional items have been deleted because they are not relevant. The Technical Evaluation of this TRM section, reference 11, provides details on how Table 1 was constructed.

Table 3, "UNIT 1 SSCs THAT SUPPORT UNIT 3 FUNCTION OR LICENSE BASIS" was created from information contained in Unit 3 Technical Evaluation M3-EV-99-0066, "MP1 Equipment Credited by MP3". Table 3 was constructed from the listing and discussion in Unit 3 Technical Evaluation M3-EV-99-0066 in a format similar to Table 1.

2. CR M1-96-0479 was written to identify the lack of communication between units. The corrective action has been to prepare Operations Manual Section 10.4 (reference 2) and this TRM section relating to this unit interdependence to ensure that communications between the Millstone Units are appropriate and are made using a formalized process. This will ensure that required notifications and acknowledgments to and from other units are performed appropriately.

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**TABLE 1**

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**UNIT 1 SSCs THAT SUPPORT UNIT 2 FUNCTION OR LICENSE BASIS.**

#	Unit 1 SSC Description	System Number	Unit 1 Function or License Basis For Supporting Unit 2 Operation
1	Deleted	---	---
2	Deleted	---	---
3	Fire Protection	<b>332A</b>	a. A common underground fire water supply loop for all 3 units is provided.
4	Deleted	---	---
5	Turbine Building	<b>N/A</b>	a. U1 Turbine Building provides structural load path for flood boundary protecting U2 at 14'-6" elevation. b. U2 Turbine Building has a structural interface with U1 Turbine Building (connected by sliding connections). c. Maintain structural integrity of building to provide tornado, missile, hurricane, and weather protection for U2 Turbine Bldg.
6	Control Room/ Radwaste Building	<b>N/A</b>	a. U1 and U2 control rooms are combined in one area, but buildings are separated by Teflon-lined sliding bearings. b. A glass and metal smoke barrier is installed between the U1 and U2 control rooms. c. Maintain structural integrity of building to provide tornado, missile, hurricane, and weather protection for U2 Turbine and Auxiliary Buildings. d. U1 Radwaste/Control Building provides structural load path for flood boundary protecting U2 at 14'-6" elevation.

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**UNIT 1 SSCs THAT SUPPORT UNIT 3 FUNCTION OR LICENSE BASIS.**

#	Unit 1 SSC Description	System Number	Unit 1 Function or License Basis For Supporting Unit 3 Operation
1	Deleted	---	---
2	Fire Protection	332A	a. A common underground fire water supply loop for all 3 units is provided.

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