

REACTOR COOLANT SYSTEMRELIEF VALVESLIMITING CONDITION FOR OPERATION

3.4.3 Both power operated relief valves (PORVs) and their associated block valves shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

Inoperable Equipment	Required ACTION
a. One or both PORVs, capable of being manually cycled.	a.1 Within 1 hour either restore the PORV(s) to OPERABLE status or close the associated block valve(s) with power maintained to the block valve(s)*; otherwise, be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
b. One PORV, not capable of being manually cycled.	b.1 Within 1 hour either restore the PORV to OPERABLE status or close its associated block valve and remove power from the block valve; restore the PORV to OPERABLE status within the following 72 hours or be in HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
c. <p>--- NOTE ---</p> <p>Not applicable when a second PORV intentionally made inoperable.</p> <p>-----</p> <p>Two PORVs, not capable of being manual cycled.</p>	<p>c.1 Close the associated block valves within 1 hour or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p> <p>AND</p> <p>c.2 Remove power from associated block valves within 1 hour or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p> <p>AND</p>

\* The block valve(s) may be stroked, as necessary, during plant cooldown to prevent thermal binding.

REACTOR COOLANT SYSTEMRELIEF VALVESLIMITING CONDITION FOR OPERATIONACTION: (continued)

Inoperable Equipment	Required ACTION
c. (continued)	<p>c.3 Verify LCO 3.7.1.2, "Auxiliary Feedwater Pumps," is met within 1 hour or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p> <p>AND</p> <p>c.4 Restore at least one PORV to OPERABLE status within 8 hours or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p>
d. One block valve.	<p>d.1 Prevent its associated PORV from opening automatically within 1 hour, or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p> <p>AND</p> <p>d.2 Restore the block valve to OPERABLE status within 72 hours, or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p>
<p>e.</p> <p>- - - - NOTE - - - -</p> <p>Not applicable when second block valve intentionally made inoperable.</p> <p>- - - - -</p> <p>Two block valves.</p>	<p>e.1 Verify LCO 3.7.1.2, "Auxiliary Feedwater Pumps," is met within 1 hour; or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p> <p>AND</p> <p>e.2 Restore at least one block valve to OPERABLE status within 8 hours, or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.</p>

3/4.8 ELECTRICAL POWER SYSTEMS3/4.8.1 A.C. SOURCESOPERATINGLIMITING CONDITION FOR OPERATION

3.8.1.1 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. Two physically independent circuits between the offsite transmission network and the onsite Class 1E distribution system, and
- b. Two separate and independent diesel generators each with a separate fuel oil supply tank containing a minimum of 12,000 gallons of fuel.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

Inoperable Equipment		Required ACTION	
a.	One offsite circuit	a.1	Perform Surveillance Requirement 4.8.1.1.1 for remaining offsite circuit within 1 hour prior to or after entering this condition, and at least once per 8 hours thereafter.
		AND	
		a.2	Restore the inoperable offsite circuit to OPERABLE status within 72 hours or be in HOT STANDBY within the next 6 hours and COLD SHUTDOWN within the following 30 hours.

ELECTRICAL POWER SYSTEMSACTION (Continued)

Inoperable Equipment	Required ACTION
b. One diesel generator	b.1 Perform Surveillance Requirement 4.8.1.1.1 for the offsite circuit within 1 hour prior to or after entering this condition, and at least once per 8 hours thereafter.
	AND
	b.2 Demonstrate OPERABLE diesel generator is not inoperable due to common cause failure within 24 hours or perform Surveillance Requirement 4.8.1.1.2.a.2 for the OPERABLE diesel generator within 24 hours.
	AND
	b.3 Verify the steam-driven auxiliary feedwater pump is OPERABLE (MODES 1, 2, and 3 only). If this condition is not satisfied within 2 hours, be in at least HOT STANDBY within the next 6 hours and HOT SHUTDOWN within the following 6 hours.
	AND
	b.4 (Applicable only if the 14 day allowed outage time specified in ACTION Statement b.5 is to be used.) Verify the required Millstone Unit No. 3 diesel generator(s) is/are OPERABLE and the Millstone Unit No. 3 SBO diesel generator is available within 1 hour prior to or after entering this condition, and at least once per 24 hours thereafter. Restore any inoperable required Millstone Unit No. 3 diesel generator to OPERABLE status and/or Millstone Unit No. 3 SBO diesel generator to available status within 72 hours or be in HOT STANDBY within the next 6 hours and COLD SHUTDOWN within the following 30 hours.
	AND
	b.5 Restore the inoperable diesel generator to OPERABLE status within 72 hours (within 14 days if ACTION Statement b.4 is met) or be in HOT STANDBY within the next 6 hours and COLD SHUTDOWN within the following 30 hours.

ELECTRICAL POWER SYSTEMSACTION (Continued)

Inoperable Equipment	Required ACTION
<p>c. One offsite circuit</p> <p>AND</p> <p>One diesel generator</p>	<p>c.1 Perform Surveillance Requirement 4.8.1.1.1 for remaining offsite circuit within 1 hour and at least once per 8 hours thereafter.</p> <p>AND</p> <p>c.2 Demonstrate OPERABLE diesel generator is not inoperable due to common cause failure within 8 hours or perform Surveillance Requirement 4.8.1.1.2.a.2 for the OPERABLE diesel generator within 8 hours.</p> <p>AND</p> <p>c.3 Verify the steam-driven auxiliary feedwater pump is OPERABLE (MODES 1, 2, and 3 only). If this condition is not satisfied within 2 hours, be in at least HOT STANDBY within the next 6 hours and HOT SHUTDOWN within the following 6 hours.</p> <p>AND</p> <p>c.4 Restore one inoperable A.C. source to OPERABLE status within 12 hours or be in HOT STANDBY within the next 6 hours and COLD SHUTDOWN within the following 30 hours.</p> <p>AND</p> <p>c.5 Restore remaining inoperable A.C. source to OPERABLE status following the time requirements of ACTION Statements a or b above based on the initial loss of the remaining inoperable A.C. source.</p>
<p>d. Two offsite circuits</p>	<p>d.1 Restore one of the inoperable offsite sources to OPERABLE status within 24 hours or be in HOT STANDBY within the next 6 hours.</p> <p>AND</p> <p>d.2 Following restoration of one offsite source restore remaining inoperable offsite source to OPERABLE status following the time requirements of ACTION Statement a above based on the initial loss of the remaining inoperable offsite source.</p>

ELECTRICAL POWER SYSTEMSACTION (Continued)

Inoperable Equipment		Required ACTION	
e.	Two diesel generators	e.1	Perform Surveillance Requirement 4.8.1.1.1 for the offsite circuits within 1 hour and at least once per 8 hours thereafter.
		AND	
		e.2	Restore one of the inoperable diesel generators to OPERABLE status within 2 hours or be in HOT STANDBY within the next 6 hours and COLD SHUTDOWN within the following 30 hours.
		AND	
		e.3	Following restoration of one diesel generator restore remaining inoperable diesel generator to OPERABLE status following the time requirements of ACTION Statement b above based on the initial loss of the remaining inoperable diesel generator.

SURVEILLANCE REQUIREMENTS

4.8.1.1.1 Verify correct breaker alignment and indicated power available for each required offsite circuit at the frequency specified in the Surveillance Frequency Control Program.

ELECTRICAL POWER SYSTEMS3/4 8.2 ONSITE POWER DISTRIBUTION SYSTEMSA.C. DISTRIBUTION - OPERATINGLIMITING CONDITION FOR OPERATION

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3.8.2.1 The following A.C. electrical busses shall be OPERABLE and energized from sources of power other than the diesel generators with tie breakers open between redundant busses:

4160	volt Emergency Bus # 24 C
4160	volt Emergency Bus #24 D
480	volt Emergency Load Center #22 E
480	volt Emergency Load Center #22 F
120	volt A.C. Vital Bus # VA-10
120	volt A.C. Vital Bus # VA-20
120	volt A.C. Vital Bus # VA-30
120	volt A.C. Vital Bus # VA-40

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With less than the above complement of A.C. busses OPERABLE, restore the inoperable bus and/or associated load center to OPERABLE status within 8 hours or be in COLD SHUTDOWN within the next 36 hours.

SURVEILLANCE REQUIREMENTS

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4.8.2.1 The specified A.C. busses shall be determined OPERABLE and energized from normal A.C. sources with tie breakers open between redundant busses at the frequency specified in the Surveillance Frequency Control Program by verifying correct breaker alignment and indicated power availability.

INSTRUMENTATION3/4.3.3 MONITORING INSTRUMENTATIONRADIATION MONITORINGLIMITING CONDITION FOR OPERATION

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3.3.3.1 The radiation monitoring instrumentation channels shown in Table 3.3-6 shall be OPERABLE with their alarm/trip setpoints within the specified limits.

APPLICABILITY: As shown in Table 3.3-6.

ACTION:

- a. With a radiation monitoring channel alarm/trip setpoint exceeding the value shown in Table 3.3-6, adjust the setpoint to within the limit within 2 hours or declare the channel inoperable.
- b. With the number of OPERABLE channels less than the number of MINIMUM CHANNELS OPERABLE in Table 3.3-6, take the ACTION shown in Table 3.3-6. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

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4.3.3.1.1 Each required radiation monitoring instrumentation channel shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST operations during the MODES and at the frequencies shown in Table 4.3-3.

4.3.3.1.2 DELETED

4.3.3.1.3 Verify the response time of the control room isolation channel at the frequency specified in the Surveillance Frequency Control Program.

**TABLE 3.3-6**  
**RADIATION MONITORING INSTRUMENTATION**

INSTRUMENT	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ALARM/TRIP SETPOINT	MEASUREMENT RANGE	ACTION
1. AREA MONITORS					
a. Deleted	2	ALL MODES	2 mR/hr	$10^{-1} - 10^4$ mR/hr	16
b. Control Room Isolation	1	1, 2, 3, & 4	100 R/hr	$10^0 - 10^8$ R/hr	17
c. Containment High Range					
2. PROCESS MONITORS					
a. Containment Atmosphere-Particulate	1	1, 2, 3, & 4	NA	$10 - 10^{+6}$ cpm	14
b. Deleted					
c. Noble Gas Effluent Monitor (high range) (Unit 2 stack)	1	1, 2, 3, & 4	$2 \times 10^{-1}$ uci/cc	$10^{-3} - 10^5$ uci/cc	17

TABLE 3.3-6 (Continued)TABLE NOTATION

(a) DELETED

ACTION 13 - DELETED

ACTION 14 - With the number of process monitors OPERABLE less than required by the MINIMUM CHANNELS OPERABLE requirement, comply with the ACTION requirements of Specification 3.4.6.1.

ACTION 15 - DELETED

ACTION 16 - 1) With the number of OPERABLE channels one less than required by the MINIMUM CHANNELS OPERABLE requirement, restore the inoperable channel to OPERABLE status within 7 days or initiate and maintain operation of the control room emergency ventilation system in the recirculation mode of operation.

2) With the number of OPERABLE channels two less than required by the MINIMUM CHANNELS OPERABLE requirement, within 1 hour initiate and maintain operation of the control room emergency ventilation system in the recirculation mode of operation.

ACTION 17 - With the number of OPERABLE channels less than required by the MINIMUM CHANNELS OPERABLE requirements, initiate the preplanned alternate method of monitoring the appropriate parameter(s), within 72 hours, and:

- 1) either restore the inoperable channel(s) to OPERABLE status within 7 days of the discovery or
- 2) prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within 14 days following discovery outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.

**TABLE 4.3-3**  
**RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS**

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL FUNCTIONAL TEST</u>	<u>MODES IN WHICH SURVEILLANCE REQUIRED</u>
1. AREA MONITORS				
a. Deleted				
b. Control Room Isolation	SFCP	SFCP	SFCP	ALL MODES
c. Containment High Range	SFCP	SFCP*	SFCP	1, 2, 3, & 4
2. PROCESS MONITORS				
a. Containment Atmosphere- Particulate	SFCP	SFCP	SFCP	1, 2, 3, & 4
b. Deleted				
c. Noble Gas Effluent Monitor (high range) (Unit 2 Stack)	SFCP	SFCP	SFCP	1, 2, 3, & 4

\* Calibration of the sensor with a radioactive source need only be performed on the lowest range. Higher ranges may be calibrated electronically.

PLANT SYSTEMS3/4.7.6 CONTROL ROOM EMERGENCY VENTILATION SYSTEMLIMITING CONDITION FOR OPERATION

3.7.6.1 Two independent Control Room Emergency Ventilation Trains shall be OPERABLE.\*

APPLICABILITY: MODES 1, 2, 3, 4, 5 and 6.

During movement of recently irradiated fuel assemblies.

ACTION:

MODES 1, 2, 3, and 4:

Inoperable Equipment	Required ACTION
a. One Control Room Emergency Ventilation Train, except as specified in ACTION c.	a.1 Restore the inoperable Control Room Emergency Ventilation Train to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
b. <p>--- NOTE ---</p> <p>Not applicable when second Control Room Emergency Ventilation Train intentionally made inoperable.</p> <p>-----</p> <p>Two Control Room Emergency Ventilation Trains, except as specified in ACTION c.</p>	<p>b.1 Initiate action to implement mitigating actions immediately or be in HOT STANDBY within the next 6 hours, and in COLD SHUTDOWN within the following 30 hours.</p> <p>AND</p> <p>b.2 Verify LCO 3.4.8, "Reactor Coolant System, Specific Activity," is met within 1 hour or be in HOT STANDBY within the next 6 hours, and in COLD SHUTDOWN within the following 30 hours.</p> <p>AND</p> <p>b.3 Restore at least one Control Room Emergency Ventilation Train to OPERABLE status within 24 hours or be in HOT STANDBY within the next 6 hours, and in COLD SHUTDOWN within the following 30 hours.</p>

\* The Control Room Envelope (CRE) boundary may be opened intermittently under administrative control.

PLANT SYSTEMS3/4.7.6 CONTROL ROOM EMERGENCY VENTILATION SYSTEMLIMITING CONDITION FOR OPERATIONACTION: (Continued)

MODES 1, 2, 3, and 4:

Inoperable Equipment	Required ACTION
c. One or more Control Room Emergency Ventilation Trains, due to an inoperable CRE boundary.	c.1 Immediately initiate action to implement mitigating actions or be in HOT STANDBY within the next 6 hours, and COLD SHUTDOWN within the following 30 hours.
	AND
	c.2 Verify, within 24 hours, mitigating actions ensure CRE occupant exposures to radiological and chemical hazards will not exceed limits, and mitigating actions are taken for exposure to smoke hazards or be in HOT STANDBY within the next 6 hours, and COLD SHUTDOWN within the following 30 hours.
	AND
	c.3 Restore CRE boundary to OPERABLE status within 90 days or be in HOT STANDBY within the next 6 hours, and COLD SHUTDOWN within the following 30 hours.

PLANT SYSTEMS3/4.7.6 CONTROL ROOM EMERGENCY VENTILATION SYSTEMLIMITING CONDITION FOR OPERATIONACTION: (Continued)

MODES 5 and 6, and during movement of recently irradiated fuel assemblies:\*\*

Inoperable Equipment		Required ACTION	
d.	One Control Room Emergency Ventilation Train, except due to an inoperable CRE boundary.	d.1	Restore the inoperable Control Room Emergency Ventilation Train to OPERABLE status within 7 days.
		AND	
		d.2	After 7 days, initiate and maintain operation of the remaining OPERABLE Control Room Emergency Ventilation Train in the recirculation mode of operation or immediately suspend the movement of recently irradiated fuel assemblies.
e.1	Both Control Room Emergency Ventilation Trains,	e.1	Immediately suspend the movement of recently irradiated fuel assemblies.
OR			
e.2	The OPERABLE Control Room Emergency Ventilation Train required to be in the recirculation mode by ACTION d. not capable of being powered by an OPERABLE normal and emergency power source,		
OR			
e.3	One or more Control Room Emergency Ventilation Trains, due to an inoperable CRE boundary.		

\*\* In MODES 5 and 6, when a Control Room Emergency Ventilation Train is determined to be inoperable solely because its emergency power source is inoperable, or solely because its normal power source is inoperable, it may be considered OPERABLE for the purpose of satisfying the requirements of 3.7.6.1 Limiting Condition for Operation, provided: (1) its corresponding normal or emergency power source is OPERABLE; and (2) all of its redundant system (s), subsystem (s), train (s), component (s) and device(s) are OPERABLE, or likewise satisfy the requirements of the specification. Unless both conditions (1) and (2) are satisfied within 2 hours, then ACTION 3.7.6.1.d or 3.7.6.1.e shall be invoked as applicable.