

Docket No. 50-336
B14924

Attachment 1

Millstone Nuclear Power Station, Unit No. 2

Proposed Revision to Technical Specifications
Generic Letter 90-06

Marked Up Pages

September 1994

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REACTOR COOLANT SYSTEM

RELIEF VALVES

LIMITING CONDITION FOR OPERATION

3.4.3 ^{BOTH} ~~TWO~~ power operated relief valves (PORVs) and their associated block valves shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

INSERT 1
c. With ~~one or more~~ ^{both} PORV(s) inoperable, ^{AND NOT CAPABLE OF BEING MANUALLY CYCLED} within ~~1~~ hour ~~either restore the PORV(s) to OPERABLE status or close the associated block valve(s) and remove power from the block valve(s); otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~ ^{HOT SHUTDOWN}

d. With one or ~~more~~ ^{both} block valve(s) inoperable, within ~~1~~ hour ~~either restore the block valve(s) to OPERABLE status or close the block valve(s) and remove power from the block valve(s); otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~ ^{HOT SHUTDOWN}

SURVEILLANCE REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF SPECIFICATION 4.0.5,
4.4.3.1 ~~Each~~ PORV shall be demonstrated OPERABLE:

- Once per 31 days by performance of a CHANNEL FUNCTIONAL TEST, excluding valve operation, and
- Once per 18 months by performance of a CHANNEL CALIBRATION.

4.4.3.2 Each block valve shall be demonstrated OPERABLE once per 92 days by operating the valve through one complete cycle of full travel. This demonstration is not required if a PORV block valve is closed and power removed to meet Specification 3.4.3 a or b. ^{or b, c or d}

REV 1
OR PLACE ITS ASSOCIATED PORV(s) controls in the close position. RESTORE AT LEAST ONE BLOCK VALVE TO OPERABLE STATUS WITHIN THE NEXT HOUR IF BOTH BLOCK VALVES ARE INOPERABLE; RESTORE ANY REMAINING INOPERABLE BLOCK VALVE TO OPERABLE STATUS WITHIN 72 hours;

REV 1
e. THE PROVISIONS OF SPECIFICATION 3.0.4 ARE NOT APPLICABLE.

INSERT 1

- a. WITH ONE OR BOTH PORVs INOPERABLE AND CAPABLE OF BEING MANUALLY CYCLED, 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. WITH ONE PORV INOPERABLE AND NOT CAPABLE OF BEING MANUALLY CYCLED, 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.

REACTOR COOLANT SYSTEM

OVERPRESSURE PROTECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.4.9.3 ~~At least one of the following overpressure protection systems shall be OPERABLE:~~

~~a. Two power operated relief valves (PORVs) with a lift setting of less than or equal to ¹⁵⁰ 450 psig, or~~

~~b. A reactor coolant system vent of ≥ 1.3 square inches.~~

APPLICABILITY: ~~When the temperature of one or more of the RCS cold legs is $\leq 275^{\circ}\text{F}$, except when the reactor vessel head is removed.~~

~~MODE 4 WHEN THE TEMPERATURE OF ANY RCS COLD LEG IS LESS THAN OR EQUAL TO 275°F .~~

ACTION: ~~MODE 5, AND MODE 6 WHEN THE HEAD IS ON THE REACTOR VESSEL AND THE RCS IS NOT~~

~~VENTED THROUGH A ^{1.3} 1.3 SQUARE INCH OR LARGER VENT.~~

IN MODE 4

~~a. With one PORV inoperable, either restore the inoperable PORV to OPERABLE status within 7 days or depressurize and vent the RCS through a ≥ 1.3 square inch vent(s) within the next 8 hours; maintain the RCS in a vented condition until both PORVs have been restored to OPERABLE status.~~

~~c. With ^{2.8} both PORVs inoperable, ^{complete} depressurize ^{and} vent the RCS through at least a ≥ 1.3 square inch vent(s) within 8 hours; ^{status} maintain the RCS in a vented condition until both PORVs have been restored to OPERABLE status.~~

~~e. In the event either the PORVs or the RCS vent(s) are used to mitigate an RCS pressure transient, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 30 days. The report shall describe the circumstances initiating the transient, the effect of the PORVs or RCS vent(s) on the transient, and any corrective action necessary to prevent recurrence.~~

~~b. With one PORV inoperable in MODES 5 or 6, either (1) restore the inoperable PORV to OPERABLE status within 24 hours, or (2) ^{complete} depressurization and vent the RCS through at least a ≥ 1.3 square inch vent within a total of 32 hours.~~

~~d. With the RCS vented per ACTIONS a, b, or c, verify the vent pathway at least once per 31 days when the pathway is provided by a valve(s) that is locked, sealed, or otherwise secured in the open position; otherwise, verify the vent pathway every 12 hours.~~

~~f. The provisions of Specification 3.0.4 are not applicable.~~

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Attachment 2

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Retyped Pages

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REACTOR COOLANT SYSTEM

RELIEF VALVES

LIMITING 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:

- a. With one or both PORVs inoperable and capable of being manually cycled, 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. With one PORV inoperable and not capable of being manually cycled, 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. With both PORVs inoperable and not capable of being manually cycled, within 1 hour either restore at least one PORV to OPERABLE status or close the associated block valves and remove power from the block valves and be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
- d. With one or both block valves inoperable, within 1 hour restore the block valve(s) to OPERABLE status or place its associated PORV(s) controls in the "close" position. Restore at least one block valve to OPERABLE status within the next hour if both block valves are inoperable; restore any remaining inoperable block valve to OPERABLE status within 72 hours; otherwise be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

REACTOR COOLANT SYSTEM

SURVEILLANCE REQUIREMENTS

4.4.3.1 In addition to the requirements of Specification 4.0.5, each PORV shall be demonstrated OPERABLE:

- a. Once per 31 days by performance of a CHANNEL FUNCTIONAL TEST, excluding valve operation, and
- b. Once per 18 months by performance of a CHANNEL CALIBRATION.
- c. Once per 18 months the PORVs shall be bench tested at conditions representative of MODES 3 or 4.

4.4.3.2 Each block valve shall be demonstrated OPERABLE once per 92 days by operating the valve through one complete cycle of full travel. This demonstration is not required if a PORV block valve is closed and power removed to meet Specification 3.4.3 b or c.

REACTOR COOLANT SYSTEM

OVERPRESSURE PROTECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.4.9.3 Both power operated relief valves (PORVs) shall be OPERABLE with a lift setting of less than or equal to 450 psig.

APPLICABILITY: MODE 4 when the temperature of any RCS cold leg is less than or equal to 275°F. MODE 5 and MODE 6 when the head is on the reactor vessel and the RCS is not vented through a 2.8 square inch or larger vent.

ACTION:

- a. With one PORV inoperable in MODE 4 restore the inoperable PORV to OPERABLE status within 7 days or depressurize and vent the RCS through a ≥ 1.4 square inch vent(s) within the next 8 hours.
- b. With one PORV inoperable in MODES 5 or 6, either (1) restore inoperable PORV to OPERABLE status within 24 hours, or (2) complete depressurization and vent the RCS through at least a 1.4 square inch vent within a total of 32 hours.
- c. With both PORVs inoperable, complete depressurization and vent the RCS through at least a ≥ 2.8 square inch vent(s) within 8 hours.
- d. With the RCS vented per ACTIONS a, b, or c, verify the vent pathway at least once per 31 days when the pathway is provided by a valve(s) that is locked, sealed, or otherwise secured in the open position; otherwise, verify the vent pathway every 12 hours.
- e. In the event either the PORVs or the RCS vent(s) are used to mitigate an RCS pressure transient, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 30 days. The report shall describe the circumstances initiating the transient, the effect of the PORVs or RCS vent(s) on the transient, and any corrective action necessary to prevent recurrence.