

ATTACHMENT 2
PROPOSED UNIT 2 TECHNICAL SPECIFICATION

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: 1) less than or equal to 475 psig whenever any RCS cold leg temperature is less than or equal to 340°F, and 2) less than or equal to 405 psig whenever any RCS cold leg temperature is less than 140°F, or
- b. A reactor coolant system vent of greater than or equal to 2.07 square inches, or
- c. A maximum pressurizer volume of 457 cu ft with all RCS cold leg temperatures greater than or equal to 320°F.

APPLICABILITY: When the temperature of one or more of the RCS cold legs is less than or equal to 340°F, except when the reactor vessel head is removed.

ACTION:

- a. With the PORVs required and one PORV inoperable, either restore the inoperable PORV to OPERABLE status within 7 days or depressurize and vent the RCS through a 2.07 square inch vent(s) within the next 8 hours; maintain the RCS in a vented condition until both PORVs have restored to OPERABLE status.
- b. With the PORVs required and both PORVs inoperable, depressurize and vent the RCS through a 2.07 square inch vent(s) within 8 hours; maintain the RCS in a vented condition until both PORVs have been restored to OPERABLE status.
- c. In the event either the PORVs or the RCS vent(s) are used to mitigate a 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 vent(s) on the transient and any corrective action necessary to prevent recurrence.
- d. The provisions of Specification 3.0.4 are not applicable.

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SURVEILLANCE REQUIREMENTS

4.4.9.3.1 Each PORV shall be demonstrated OPERABLE by:

- a. Performance of a CHANNEL FUNCTIONAL TEST on the PORV actuation channel, but excluding valve operation, within 31 days prior to entering a condition in which the PORV is required OPERABLE and at least once per 31 days thereafter when the PORV is required OPERABLE.
- b. Performance of a CHANNEL CALIBRATION on the PORV actuation channel, at least once per 18 months.
- c. Verifying the PORV key switch is in the AUTO position, and the PORV isolation valve is open, at least once per 72 hours when the PORV is being used for overpressure protection.
- d. Testing in accordance with the in-service test requirements for ASME Category C valves pursuant to Specification 4.0.5.

4.4.9.3.2 The RCS vent(s) shall be verified to be open at least once per 12 hours* when the vent(s) is being used for overpressure protection.

*Except when the vent pathway is provided with a valve which is locked, sealed, or otherwise secured in the open position, then verify these valve(s) open at least once per 31 days when being used for overpressure protection.

BASES

The OPERABILITY of two PORVs or an RCS vent opening of greater than 2.07 square inches ensures that the RCS will be protected from pressure transients which could exceed the limits of Appendix G to 10 CFR Part 50 when one or more of the RCS cold legs is $\leq 340^{\circ}\text{F}$, and the Reactor Vessel Head is bolted. Either PORV has adequate relieving capability to protect the RCS from overpressurization when the transient is limited to either (1) the start of an idle RCP with the secondary water temperature of the steam generator $\leq 50^{\circ}\text{F}$ above the RCS cold leg temperature, or (2) the start of a charging pump and its injection into a water solid RCS.

When the temperature of the RCS cold legs is between 320°F and 340°F , overpressure protection can also be provided by a bubble in the pressurizer. In such a case, a maximum pressurizer water volume of 457 cu. ft. has been selected to provide at least 10 minutes for operator response in the event of a malfunction resulting in maximum flow from one charging pump.

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