

PROPOSED TECHNICAL SPECIFICATION CHANGES

CONSUMERS POWER COMPANY

PALISADES PLANT

8208020294 820729
PDR ADOCK 05000255
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Overpressure Protection Systems Specifications

- a. When the temperature of one or more of the primary coolant system cold legs is $\leq 250^{\circ}\text{F}$, or whenever the shutdown cooling isolation valves (MOV-3015 and MOV-3016) are open, two power operated relief valves (PORVs) with a lift setting of ≤ 400 psia, or a reactor coolant system vent of ≥ 1.3 square inches shall be operable except as specified below:
- (1) With one PORV inoperable, either restore the inoperable PORV to operable status within 7 days or depressurize and vent the PCS through a ≥ 1.3 square inch vent(s) within the next 8 hours; maintain the PCS in a vented condition until both PORVs have been restored to operable status.
 - (2) With both PORVs inoperable, depressurize and vent the PCS through a ≥ 1.3 square inch vent(s) within 8 hours; maintain the PCS in a vented condition until both PORVs have been restored to operable status.
- b. In the event either the PORVs or the PCS vent(s) are used to mitigate a PCS pressure transient, a Special Report shall be prepared and submitted to the Commission 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.

Basis

The OPERABILITY of two PORVs or an PCS vent opening of greater than 1.3 square inches ensures that the PCS 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 PCS cold legs are $\leq 250^{\circ}\text{F}$. Either PORV has adequate relieving capability to protect the PCS from overpressurization when the transient is limited to either (1) the start of an idle PCP with the secondary water temperature of the steam generator $\leq 70^{\circ}\text{F}$ above the PCS cold leg temperatures or (2) the start of a HPSI pump and its injection into a water solid PCS. (1)

Whenever the SCS is not isolated from the reactor coolant system, the PCS will be vented or the PORVs will be in service. This requirement will ensure that the overpressurization of the SCS that could lead to a loss-of-coolant accident outside containment is prevented.

References

- (1) "Palisades Plant Overpressurization Analysis," June, 1977 and "Palisades Plant Primary Coolant System Overpressurization Sub-system Description," October, 1977.
- (2) Systematic Evaluation Program Topic V-10.B