

CONSUMERS POWER COMPANY

PALISADES PLANT - DOCKET 50-255 - LICENSE DPR-20

PROPOSED TECHNICAL SPECIFICATIONS CHANGE REQUEST

PROPOSED PAGES

2 PAGES

TS1282-0002B-NL02

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3.3 EMERGENCY CORE COOLING SYSTEM

Applicability

Applies to the operating status of the emergency core cooling system.

Objective

To assure operability of equipment required to remove decay heat from the core in either emergency or normal shutdown situations.

Specifications

Safety Injection and Shutdown Cooling Systems

- 3.3.1 The reactor shall not be made critical, except for low-temperature physics tests, unless all of the following conditions are met:
- a. The SIRW tank contains not less than 250,000 gallons of water with a boron concentration of at least 1720 ppm but not more than 2000 ppm at a temperature not less than 40°F.
 - b. All four Safety Injection tanks are operable and pressurized to at least 200 psig with a tank liquid level of at least 186 inches (55.5%) and a maximum level of 198 inches (59%) with a boron concentration of at least 1720 ppm but not more than 2000 ppm.*
 - c. One low-pressure Safety Injection pump is operable on each bus.
 - d. One high-pressure Safety Injection pump is operable on each bus.
 - e. Both shutdown heat exchangers and both component cooling heat-exchangers are operable.
 - f. Piping and valves shall be operable to provide two flow paths from the SIRW tank to the primary cooling system.
 - g. All valves, piping and interlocks associated with the above components and required to function during accident conditions are operable.
 - h. The Low-Pressure Safety Injection Flow Control Valve CV-3006 shall be opened and disabled (by isolating the air supply) to prevent spurious closure.
 - i. The Safety Injection bottle motor-operated isolation valves shall be opened with the electric power supply to the valve motor disconnected.
 - j. The Safety Injection miniflow valves CV-3027 and 3056 shall be opened with HS-3027 and 3056 positions to maintain them open.

*For the remainder of cycle 5, Safety Injection tank T-82B is to have a boron concentration greater than or equal to the primary coolant system boron concentration, but not to exceed 2000 ppm.

TABLE 4.2.1
Minimum Frequencies for Sampling Tests

	<u>Test</u>	<u>Frequency</u>	<u>FSAR Section Reference</u>
1. Reactor Coolant Samples	Gross Activity Determination	3 Times/7 days with a maximum of 72 hours between samples (T avg greater than 500°F).	None
	Gross Gamma by Fission Product Monitor	Continuous when T avg is greater than 500°F(1).	None
	Isotopic analysis for dose equivalent I-131 concentration	1/14 days during power operation	None
	Radio chemical for E determination	1/6 months (2)	None
	Isotopic analysis for iodine, including I-131, 133, 135	a) Once/4 hours, whenever dose equivalent I-131 exceeds 1.0μCi/gram, and b) One sample between 2 and 6 hours following a thermal power change exceeding 15% of rated thermal power within a one hour period.	
	Chemistry (C1 and O2)	3 times/7 days with a maximum of 72 hours between samples (T avg greater than 210°F).	
	Chemistry (F1)	Once/30 days and following modifications or repair to the primary coolant system involving welding.	
2. Reactor Coolant Boron	Boron Concentration	Twice/Week	None
3. SIRW Tank Water Sample	Boron Concentration	Monthly	None
4. Concentrated Boric Acid Tanks	Boron Concentration	Monthly	None
5. SI Tanks	Boron Concentration	Monthly	6.1.2*

*For T-82B

-weekly

-within one hour of a primary coolant system boration greater than 70 ppm.