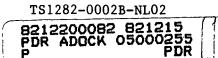
# CONSUMERS POWER COMPANY

PALISADES PLANT - DOCKET 50-255 - LICENSE DPR-20 PROPOSED TECHNICAL SPECIFICATIONS CHANGE REQUEST

PROPOSED PAGES



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EMERGENCY CORE COOLENG SYSTEM

### Applicability

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

**Objective** 

To assure operability of equipment required to remove decay heat form 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 heatexchangers are operable.
  - f. Piping and values 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 valuees shall be opened with the electric power supply to the value 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.

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# Minimum Frequencies for Sampling Tests



		Test	Frequency	FSAR Section Reference
1.	Reactor Coolant Samples	Gross Activity Deter- mination	3 Times/7 days with a maximum of 72 hours be- tween 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	
			<ul> <li>b) One sample between</li> <li>2 and 6 hours follow-</li> <li>ing a thermal power</li> <li>change exceeding 15%</li> <li>of rated thermal power</li> <li>within a one hour period.</li> </ul>	•
•		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 follow- ing 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.

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