

ATTACHMENT

Consumers Power Company
Palisades Plant
Docket 50-255

REVISED PROPOSED TECHNICAL SPECIFICATIONS
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1 Page

5.2 CONTAINMENT DESIGN FEATURES (Cont'd)

5.2.2 Penetrations

- a. All penetrations through the steel-lined concrete structure for electrical conductors, pipe, ducts, air locks and doors are of the double-barrier design.
- b. The automatically actuated containment isolation valves are designed to close upon high radiation or high pressure in the containment structure. No single component failure in the actuation system will prevent the isolation valves from functioning as designed.

5.2.3 Containment Structure Cooling Systems

- a. The containment air cooling system includes four separate self-contained units which cool the containment air during normal operation and limit the pressure rise in the event of a design accident. Three units, with a cooling water flow of 1700 gpm each (5100 gpm total) and with an inlet temperature of 80°F, will remove 229×10^6 Btu/hr of heat.
- b. The containment spray system is capable of removing 233×10^6 Btu/hr (two pumps) from the containment atmosphere at 283°F by spraying the water from the 270,000-gallon SIRW tank. Recirculation of spray water from the containment sump through heat exchangers into the containment atmosphere is also provided.

Under this mode of operation, the heat removal capability is 167×10^6 Btu/hr based upon 4000 gpm of component cooling water flow with 114°F inlet temperature through the heat exchanger and 1420 gpm of spray water flow at 283°F inlet temperature.

5.3 NUCLEAR STEAM SUPPLY SYSTEM (NSSS)

5.3.1 Primary Coolant System

- a. The primary coolant system shall be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code, Section III, Rules for Construction of Nuclear Vessels, including all addenda through the winter of 1965; and the ASA Code for Pressure Piping B31.1.
- b. The primary coolant system shall be designed for a pressure of 2500 psia and a temperature of 650°F except for the pressurizer which shall have a design temperature of 700°F.
- c. The volume of the primary coolant system shall be approximately 10,900 cubic feet.