Consumers Power Company

Regulatory Docket File

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

December 6, 1976

Director, Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-155, LICENSE DPR-20 -
PALISADES PLANT

In accordance with previous commitments to the NRC, the CE Owners Group transmitted the generic report for "Overpressure Protection for Operating CE NSSS" dated December 3, 1976 submitted on the Millstone Unit No 2 Docket 50-366. The analysis in the generic report dealt with the 2560 MWt class plant which differs from Palisades in several areas.

The specific analysis to be performed for Palisades will demonstrate differences in operation of and/or equipment related to:

1. Primary Coolant System (PCS).

2. Shutdown Cooling System (SDC).

3. Safety Injection System (SI).

Operational procedures for Palisades require that the secondary side of the plant is cooled down whenever there is a plant shutdown. The Primary Coolant Pumps (PCP) are operated until there are equilibrium conditions in the PCS (T_{hot} and T_{cold} are essentially equal) and the secondary side pressure is approximately atmospheric. This eliminates potential overpressurization incidents due to inadvertent SI during low pressure/temperature operation.

The Palisades plant does not have an interlock in the SDC system operation which isolates the system during a pressure transient. There is a relief valve which has the capacity to relieve full flow of the three charging pumps if the letdown loop is inadvertently isolated during SDC operation.

Power-Operated Relief Valves (PORV) were provided in the initial plant design. At present, the PORV installation is operated with remote manual isolation

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valves closed. If the plant specific analysis demonstrates a need for low set point operation of these valves, a new actuation system will have to be provided. This modification could be completed during the planned 1977 refueling outage. Also, if testing of these valves is required to determine water relief capacity, it may be more economical to purchase new qualified valves.

Plant modifications are scheduled to be completed during the 1977 refueling outage which will provide continuous pressure and temperature recording capability. This modification involves the installation of a new low range pressure transmitter and modification of existing recorders.

In addition to the administrative controls implemented on November 1, 1976, further possible changes to administrative controls are still being considered to minimize the potential for overpressurization incidents. Completion of the CE specific plant analysis for Palisades, by April 1977, will provide the information needed to finalize our plans for pressure protection.

Ralph B Sewell
Nuclear Licensing Administrator

CC: JGKeppler

NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER 50-155

FILE NUMBER

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TO: NRC

FROM: Consumers Power Co
Jackson, Michigan
R B Sewell

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DESCRIPTION

Ltr furnishing info concerning overpressure protection for operating CE NSSS.....

ENCLOSURE

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ACKNOWLEDGED

PLANT NAME: Palisades

FOR ACTION/INFORMATION ENVIRO 12-8-76 ehf

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