



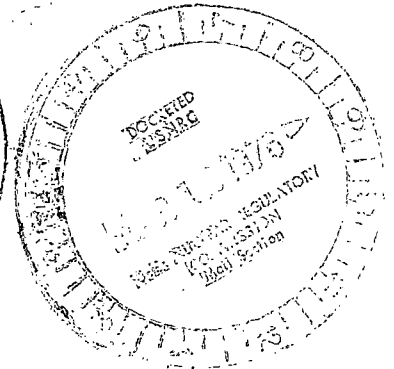
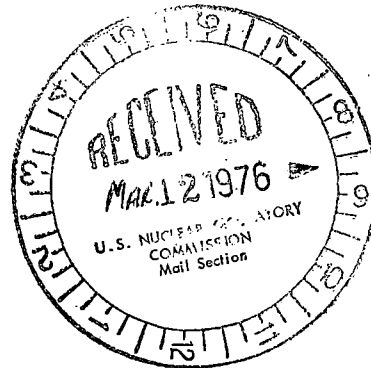
**Consumers
Power
Company**

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

March 8, 1976

Regulatory Docket File

Director of Nuclear Reactor Regulation
Att: Mr Robert A. Purple, Chief
Operating Reactor Branch No 1
US Nuclear Regulatory Commission
Washington, DC 20555



DOCKET 50-255, LICENSE DPR-20
PALISADES PLANT - BORON CONCENTRATION

In our letter of August 27, 1975, we indicated that we would advise you, on a bimonthly basis, of the status of our program to prevent unacceptable chemical concentrations during the long term after a Loss of Coolant Accident (LOCA). This program involves the qualification of equipment required to provide independent flow paths to the reactor vessel. This letter provides the third status report of this program and covers the period through March 5, 1976.

The qualification of equipment needed for long-term cooling is proceeding with all possible haste. Completion of all qualification requirements will provide two alternate equipment alignments to assure long-term cooling of the reactor core following a cold leg break LOCA at Palisades. The qualification will assure that a "single" failure within containment cannot eliminate both alignments. The qualification program has assumed that minor repairs can be made in some areas outside of containment following a LOCA. Potential repairs have been limited to those that can be made within the 12-hour requirement, and with acceptable radiation exposure, to establish long-term cooling.

Qualification or replacement of certain equipment has been complicated because of the position taken by two suppliers apparently due to present or proposed regulatory requirements relating to Quality Assurance.

The following is the status of particular component qualifications.

2500

ITEM 1 - MO-3015, MO-3016

The new motors from Limitorque (Reliance Electric) arrived on site in February. Both motors will be replaced during the present outage. Preliminary results of a review by Operating Services and Bechtel indicate that the power cables within containment, to the motors, must be replaced. To meet separation requirements of the primary and secondary alignments, the power and control cables for MO-3015 and MO-3016 will be run in their own conduits within containment.

ITEM 2 - PS-0103

A qualified pressure switch cannot be obtained during the present outage. Therefore, a temporary procedure is being written to bypass the interlock, between PS-0103 and MO-3015 and MO-3016, in the event that the pressure switch fails following a LOCA event. Also, a qualified pressure transmitter manufactured by Rosemont was ordered. This transmitter will provide a signal from 0 to 500 psig of PCS pressure. Delivery date is not yet available.

ITEM 3 - CV-2113, CV-2115

IT&T Hammel-Dahl is not able to meet the required delivery of qualified replacement parts for these valves. Therefore, Bechtel and IT&T will perform the analysis necessary to design modifications to the valve actuators to seismically qualify them. Other suppliers of actuator diaphragms are being investigated.

ITEM 4 - CV-2117

The replacement diaphragm and seal housing required to qualify the valve are on site. The necessary paperwork and seismic report should be delivered by March 12, 1976.

ITEM 5 - SV-2113, SV-2115, SV-2117

ASCO has indicated they cannot meet the required delivery date. Operating Services is investigating the acceptability of qualifying the existing valves. At most, this will require removing one valve and testing it at the Lab under the post-LOCA temperature and humidity conditions.

ITEM 6 - CONTROL AIR SYSTEM

The system has been inspected. J. A. Jones Company will be contracted to install additional piping supports to meet Bechtel's recommendations. This item is scheduled to be completed by April 1, 1976. The above modifications are being made to the control air system within containment only. This will Q-list that part of the system. In the event of failure of some portion of the Control Air System outside of containment following a LOCA, a supply of nitrogen can be connected to the system. This connection will be made between the two isolation valves (P&ID 212, D-3) utilizing an existing, normally locked closed, test valve.

ITEM 7, CV-1057, CV-1059

Status of this item is identical to Item 4.

ITEM 8 - E/P-1057, E/P-1059

New qualified E/Ps were ordered from Fisher Controls. Delivery date is scheduled to be March 26, 1976. A maintenance order has been written to replace these devices.

ITEM 9 - ELECTRICAL POWER AND CONTROL CABLE QUALIFICATION

Inspection of the cable has been completed. Those cables requiring replacement are identified under the items involved.

ITEM 10 - ELECTRICAL POWER INDEPENDENCE

Inspection by Bechtel and Consumers Power Co has identified all the cable involved in both the primary and secondary alignments. A Bechtel report, due March 8, 1976, will detail any modifications required to provide electrical separation, within containment, between the two alignments.

ITEM 11 - MISCELLANEOUS

The status of this item remains the same. Plant stock records, drawings and maintenance procedures reviews will be completed following upgrading of the individual components.

ITEM 12 - MISCELLANEOUS

Check Valve 3174 (P&ID M-204, B-7) will be moved to an area that would permit internals removed following an accident or have its internals removed as a permanent fix during this outage. The necessity of this valve is still under investigation.



David A. Bixel
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CC: JGKeppler, USNRC