

August 21, 1990

Docket No. 50-255

Mr. Gerald B. Slade
Plant General Manager
Palisades Plant
27780 Blue Star Memorial Highway
Covert, Michigan 49043

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Dear Mr. Slade:

SUBJECT: AMENDMENT NO. 133 TO PROVISIONAL OPERATING LICENSE NO. DPR-20:
FOR THE PALISADES PLANT (TAC NO. 73598)

The Commission has issued the enclosed Amendment No. 133 to Provisional Operating License No. DPR-20 for the Palisades Plant. This amendment consists of changes to the Technical Specifications in response to your application dated August 2, 1989.

This amendment deletes the requirement for a hydrostatic test at 150 percent of design pressure on the critical service water system headers every five years. System testing will continue under ASME, Section XI inservice inspection requirements.

A copy of our related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

~~Original~~ signed by

Brian E. Holian, Project Manager
Project Directorate III-1
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosures:

1. Amendment No. 133 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:
See next page

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SMeador
08/15/90

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Mr. Gerald B. Slade
Palisades Plant

Palisades Plant

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 133
License No. DPR-20

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Consumers Power Company (the licensee) dated August 2, 1989, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public; and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

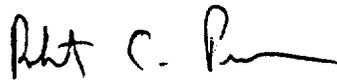
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 3.B. of Provisional Operating License No. DPR-20 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 133, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance and shall be implemented not later than August 29, 1990.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert C. Pierson, Director
Project Directorate III-1
Division of Reactor Projects - III,
IV, V and Special Projects

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 21, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 133

PROVISIONAL OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the attached pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

4-15

INSERT

4-15

Table 4.2.2

Minimum Frequencies for Equipment Tests

	<u>Test</u>	<u>Frequency</u>	<u>FSAR Section Reference</u>
1. Control Rods	Drop Times of All Full-Length Rods	Each Refueling Shutdown	7.4.1.3
2. Control Rods	Partial Movement of All Rods (Minimum of 6 In)	Every Two Weeks	7.4.1.3
3. Pressurizer Safety Valves	Set Point	One Each Refueling Shutdown	7.3.7
4. Main Steam Safety Valves	Set Point	Five Each Refueling Shutdown	4.3.4
5. Refueling System Interlocks	Functioning	Prior to Refueling Operations	9.11.3
6. Service Water System Valve Actuation (SIS-CHP)	Functioning	Each Refueling Operation	9.1.2
7. Fire Protection Pumps and Power Supply	Functioning	Monthly	9.6.2
8. Primary System Leakage	Evaluate	Daily	4 Amend 15, Ques 4.3.7
9. Diesel Fuel Supply	Fuel Inventory	Daily	8.4.1
10. (Deleted)			



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 133 TO PROVISIONAL OPERATING LICENSE NO. DPR-20

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

1.0 INTRODUCTION

By letter dated August 2, 1989, Consumers Power Company (the licensee) requested an amendment to the Technical Specifications (TSs) appended to Provisional Operating License No. DPR-20 for the Palisades Plant. The proposed amendment would delete the requirement for a hydrostatic test at 150 percent of design pressure on the critical service water system headers every five years. Specifically, Table 4.2.2, Minimum Frequencies for Equipment Tests, would be modified through deletion of Item 10, Critical Headers Service Water System. The effect of this change would be to reduce the hydrostatic test pressure requirement from 150 percent of design pressure to 125 percent and to reduce the hydrostatic test frequency from once each five years to once each ten years.

2.0 DISCUSSION

The current Palisades Technical Specification Table 4.2.2, Item 10, requires the service water (SRW) system to be hydrostatically tested to 150 psig every five years. The SRW system is an ASME Code Class 3 system. As such, it also falls under the normal Section XI inservice testing requirements consisting of a VT-2 walkdown inspection at normal operating pressure once each inspection period of 3-1/3 years, with one of the tests conducted at 1.25 times system design pressure each inservice inspection interval of 10 years.

The Palisades SRW system piping design pressure is 100 psig with a normal operating pressure of 65 psig. In order to comply with ASME Section XI requirements and their existing Technical Specifications, the licensee currently performs two hydrostatic tests at 150 psig and one VT-2 walkdown inspection at normal operating pressure during each inservice inspection interval of 10 years.

3.0 EVALUATION

The licensee currently adheres to the ASME Code, Section XI, 1983 Edition with Addendum through Summer 1983. Paragraph IWD-5223 of the Code requires a system hydrostatic test pressure of at least 1.25 times the system pressure for systems with a design temperature above 200°F. (The Palisades SRW system design temperature is 285°F.) The system pressure is required to be the

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lowest pressure setting among the number of safety or relief valves provided for overpressure protection within the boundary of the system to be tested. For systems not provided with safety or relief valves, the code states that system design pressure shall be substituted for system pressure when calculating the proper hydrostatic test pressure.

The SRW system does not contain any safety or relief valves (verified by a review of the SRW system piping and instrumentation drawing in the Final Safety Analysis Report and per discussion with the licensee). As such, the 125 psig hydrostatic test proposed by the licensee (1.25 times system design pressure) is consistent with ASME inservice testing requirements.

The licensee performed design document reviews and correspondence searches in an attempt to determine the basis for the existing TS requirement of a 150 psig hydrostatic test every five years. A review of past changes to TS Table 4.2.2 reveals that this hydrostatic test was present when the licensee's custom TSs were originally approved and was not a testing requirement imposed by the staff at some later date. The existing TS was implemented prior to the evolution of the inservice testing requirements for Class 3 systems set forth in the applicable edition and addenda of ASME Code, Section XI pursuant to 50.55a(g). The existing TS also appears to have been chosen on the basis of engineering judgment.

The licensee states that since initial plant operation, no system piping deficiencies have been detected during the 150 psig testing. The staff agrees with the licensee that testing the SRW system to 150 psig is not necessary to determine system operability. Hydrostatic testing in accordance with the ASME Code would be consistent with industry practice for Class 3 systems and Standard Technical Specifications. Although the hydrostatic test frequency is also being reduced (from once every five years to once every inspection interval of 10 years), there are no operating or design considerations which warrant a greater testing frequency. In practice, the second hydrostatic test per 10 year inspection interval will be replaced by a VT-2 walkdown at normal system operating pressure, as specified by the edition of the ASME Code, Section XI that is applicable to the facility.

In summary, the licensee has been hydrostatically testing the SRW system at a slightly higher pressure and at a greater testing frequency than required by the ASME Code. There are no operational or design considerations which warrant the testing required by TS Table 4.2.2, Item 10. Hydrostatic testing of the SRW system will continue to be accomplished in accordance with the ASME Code, Section XI inservice testing requirements. Therefore, this proposed TS change is considered acceptable.

4.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and a change in a surveillance requirement. We have determined that the amendment involves no significant increase in the amounts, and no significant

change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

5.0 CONCLUSION

We have concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: August 21, 1990

Principal Contributor: B. Holian