

February 11, 1987

DMB 016

Docket No. 50-255

Mr. Kenneth W. Berry
Director, Nuclear Licensing
Consumers Power Company
1945 West Parnall Road
Jackson, Michigan 49201

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Dear Mr. Berry:

The Commission has issued the enclosed Amendment No.102 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 June 25, 1982.

This amendment revises Section 4.7.1(d) of the Technical Specifications and includes an addition to the Bases of Section 4.7 to reflect the manufacturer's true nameplate rating of the emergency diesel generators.

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

Sincerely,

Original signed by

Thomas V. Wambach, Project Manager
PWR Project Directorate #8
Division of PWR Licensing-B

Enclosures:

1. Amendment No.102 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:
See next page

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[Handwritten signature] 2/9/87

Mr. Kenneth W. Berry
Consumers Power Company

Palisades Plant

cc:

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Palisades Plant
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Resident Inspector
c/o U.S. NRC
Palisades Plant
27782 Blue Star Memorial Hwy.
Covert, Michigan 49043



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. 102
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 June 25, 1982, 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.

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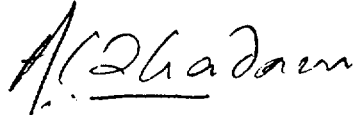
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 3.B. of Provisional Operating License No. DPR-20 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 102, 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.

FOR THE NUCLEAR REGULATORY COMMISSION



Ashok C. Thadani, Director
PWR Project Directorate #8
Division of PWR Licensing-B

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 11, 1987

ATTACHMENT TO LICENSE AMENDMENT NO. 102

PROVISIONAL OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

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

REMOVE

4-42

4-43

INSERT

4-42

4-43

4.7 EMERGENCY POWER SYSTEM PERIODIC TESTS

Applicability

Applies to periodic testing and surveillance requirements of the emergency power system.

Objective

To verify that the emergency power system will respond promptly and properly when required.

Specifications

4.7.1 Diesel Generators

- a. Each diesel generator shall be manually started each month and demonstrated to be ready for loading within 10 seconds. The signal initiated to start the diesel shall be varied from one test to another to verify that A and B starting circuits are operable. The generator shall be synchronized from the control room, and loaded to 2400 ± 100 kW.
- b. A test shall be conducted during each refueling outage to demonstrate the overall automatic operation of the emergency power system. The test shall be initiated by a simulated simultaneous loss of normal and standby power sources and a simulated SIS signal. Proper operations shall be verified by bus load shedding and automatic starting of selected motors and equipment to establish that restoration with emergency power has been accomplished within 30 seconds.
- c. Each diesel generator shall be subjected to an inspection, in accordance with procedures prepared in conjunction with the manufacturer's recommendations for this class of standby service, at least once per refueling cycle during plant shutdown. The licensee shall utilize his best efforts to conduct additional major diesel generator inspections and overhauls during shutdown periods.
- d. Diesel generator electric loads shall not be increased beyond the continuous rating of 750 amp at 2400 volts.
- e. The fuel transfer pumps shall be verified to be operable each month.

4.7.2 Station Batteries

- a. Every month, the voltage of each cell (to the nearest 0.01 volt), the specific gravity and the temperature of a pilot cell in each battery shall be measured and recorded.

4.7 EMERGENCY POWER SYSTEM PERIODIC TESTS (Cont'd)

- b. Every three months, the specific gravity of each cell, the temperature reading of every fifth cell, the height of electrolyte, and the amount of water added shall be measured and recorded.

4.7.3 Emergency Lighting

The correct functioning of the emergency lighting system outside of containment shall be verified at least once a year. The emergency lighting system inside containment shall be verified operable prior to each removal of the reactor head.

Basis

The emergency power system provides power requirements for the engineered safety features in the event of a DBA. Each of the two diesel generators is capable of supplying minimum required safeguards equipment from independent buses.^(1,2) This redundancy is a factor in establishing testing intervals. The monthly tests specified above will demonstrate operability and load capacity of the diesel generator. The fuel supply and various controls are continuously monitored and alarmed for abnormal conditions. Starting on complete loss of off-site power will be verified by simulated loss-of-power tests at approximately yearly intervals (during refueling shutdowns). Considering system redundancy, the specified testing intervals for the station batteries should be adequate to detect and correct any malfunction before it can result in system malfunction. Batteries will deteriorate with time, but precipitous failure is extremely unlikely. The surveillance specified is that which has been demonstrated over the years to provide an indication of a cell becoming unserviceable long before it fails. The emergency diesel generator limit of 750 amperes at 2400 volts corresponds to the manufacturer's nameplate kVA and kW rating of these machines.

References

- (1) FSAR, Section 8.4.1.
- (2) FSAR, Section 8.5.2.2.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 102 TO PROVISIONAL OPERATING LICENSE NO. DPR-20

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

INTRODUCTION

On January 25, 1982, the Consumers Power Company submitted a request for change to the Palisades Technical Specifications. The proposed changes include a revision to section 4.7.1(d) and an addition to the Basis of Section 4.7 to reflect the manufacturer's true nameplate rating of the emergency diesel generators. The proposed change is evaluated below.

EVALUATION

Technical Specification (TS) 4.7.1(d) would be revised such that the rating for the emergency diesel generators would be specified in amperes and volts versus kilowatts. Specifically, TS 4.7.1(d) would be revised to read, "continuous rating of 750 amp at 2400 volts". Specification of the diesel generator's rating in amperes and volts is acceptable, as the rating expressed in kilowatts depends upon the power factor of the test load. Furthermore, the emergency generator limit of 750 amperes at 2400 volts corresponds to the manufacturer's nameplate kilowatt rating of these machines. Based on this evaluation, the staff finds the proposed changes to TS 4.7.1(d) and section 4.7 of the Bases acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment relates to changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). 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.

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: February 11, 1987

Principal Contributor: R. Perfetti

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