

January 30, 1986

Docket No. 50-255

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

Dear Mr. Berry:

SUBJECT: CONTAINMENT HIGH RADIATION CHANNEL SURVEILLANCE - TECHNICAL SPECIFICATION

The Commission has issued the enclosed Amendment No.94 to Provisional Operating License No. DPR-20 for the Palisades Plant. This amendment is in response to your application dated October 22, 1985.

This amendment revises the method for performing the monthly operability test of the Containment High Radiation Monitors in Table 4.1.2 of the Technical Specifications.

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

Sincerely,

/S/

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

Enclosures:

1. Amendment No.94 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:
See next page

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PBD#8
ATHadani
1/18/86

Mr. Kenneth W. Berry
Consumers Power Company

Palisades Plant

cc:

M. I. Miller, Esquire
Isham, Lincoln & Beale
51st Floor
Three First National Plaza
Chicago, Illinois 60602

Nuclear Facilities and
Environmental Monitoring
Section Office
Division of Radiological
Health
P.O. Box 30035
Lansing, Michigan 48909

Mr. Thomas A. McNish, Secretary
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Judd L. Bacon, Esquire
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Jerry Sarno
Township Supervisor
Covert Township
36197 M-140 Highway
Covert, Michigan 49043

Office of the Governor
Room 1 - Capitol Building
Lansing, Michigan 48913

Palisades Plant
ATTN: Mr. Joseph F. Firlit
Plant General Manager
27780 Blue Star Memorial Hwy.
Covert, Michigan 49043

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. 94
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 October 22, 1985, 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. 94, 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: January 30, 1986

ATTACHMENT TO LICENSE AMENDMENT NO.94

PROVISIONAL OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

Revise Appendix A Technical Specifications by removing the page identified below and insert the enclosed page. The revised page is identified by amendment number and contains marginal lines indicating the areas of change.

REMOVE

4-7

INSERT

4-7

TABLE 4.1.2

Minimum Frequencies for Checks, Calibrations and Testing of
Engineered Safety Feature Instrumentation Controls (Contd)

Channel Description	Surveillance		Surveillance Method
	Function	Frequency	
5. Containment High Radiation Channels (Contd)	c. Test	M ⁽²⁾	c. Electronic circuit check of signal amplifier to verify proper indicator operation.
	d. Test	R	d. Simulation of CHR 2/4 logic trip with test switch to verify actuation relays, including containment isolation.
6. Manual SIS Initiation	a. Test	R	a. Manual push-button test.
7. Manual Containment Isolation Initiation	a. Test	R	a. Manual push-button test.
	b. Check	R	b. Observe isolation valves closure.
8. Manual Initiation Containment Spray Pumps and Valves	a. Test	R	a. Manual switch operation.
9. DBA Sequencers	a. Test	Q	a. Proper operation will be verified during SIS actuation test of Item 3(a) above.
10. Normal Shutdown Sequencers	a. Test	R	a. Simulate normal actuation with test-operate switch and verify equipment starting circuits.
11. Diesel Start	a. Test	M	a. Manual initiation followed by synchronizing and loading.
	b. Test	R	b. Diesel start, load shed, synchronizing and loading will be verified during Item 3(b) above.
	c. Test	P	c. Diesel auto start initiating circuits.
12. SIRW Tank Level Switch Interlocks	a. Test	R	a. Level switches removed from fluid to verify actuation logic.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATING TO AMENDMENT NO. 94 TO PROVISIONAL OPERATING LICENSE NO. DPR-20

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

1.0 INTRODUCTION

By letter dated October 22, 1985, the Consumers Power Company (CPC) submitted a request for a change to the Palisades Plant Technical Specifications for the Containment High Radiation Channels. This change is required because of replacement of these channels with environmentally qualified equipment in accordance with the requirements of 10 CFR 50.49 - Environmental Qualification of electric equipment important to safety for nuclear power plants.

The amendment changes the test method for the monthly operability check specified in Table 4.1.2 to be compatible with the new equipment.

2.0 EVALUATION

The replacement radiation channels do not have an internal check source as the previously installed channels did. The licensee was not able to find such equipment that was environmentally qualified. The internal check source was included in the existing Technical Specification for the previous channels for the monthly check of channel operability. The replacement channels incorporate two test functions which provide an alternative method of checking operability. These are: 1) a circuit failure alarm, and 2) an electronic circuit check. The failure alarm circuit continuously monitors for and alarms on a loss of power, loss of high voltage or loss of signal from the detector. The electronic circuit check feature is used to simulate a two decade increase in radiation level signal by injecting a signal in the signal amplifier that must produce the appropriate upscale reading. The electronic circuit check in conjunction with the loss of signal failure monitor provides a high level of assurance that the channel is operating properly. The Technical Specifications continue to require the daily comparison check of the four channels and a calibration of all four channel detectors every 18 months with an external source. The staff finds this combination of surveillance features and requirements acceptable for ensuring operability.

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3.0 ENVIRONMENTAL CONSIDERATION

The amendment involves a change to a surveillance requirement with respect to the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20. The staff has 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 that 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 the amendment.

4.0 CONCLUSION

The staff has 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: January 30, 1986

Principal Contributor:
Thomas V. Wambach