

January 20, 1983

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Docket No. 50-255
LS05-83-01-028

Mr. David J. Vandewalle
Nuclear Licensing Administrator
Consumers Power Company
1945 West Parnall Road
Jackson, Michigan 49201

Dear Mr. Vandewalle:

SUBJECT: TECHNICAL SPECIFICATION CHANGES RELATED TO CERTAIN
SURVEILLANCE REQUIREMENTS - PALISADES PLANT

The Commission has issued the enclosed Amendment No. 73 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 September 19, 1977.

The amendment approves changes to the Appendix A Technical Specification provisions related to surveillance requirements for pumps, valves, and diesel generators.

We will be contacting you in the near future to provide additional information pertaining to P.L. 97-425, January 7, 1983 (Waste Policy Act on Amendments), referred to on page 2, paragraph 3 of the amendment.

Copies of our related Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by/

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

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P PDR

Enclosures:

1. Amendment No. 73 to License No. DPR-20
2. Safety Evaluation
3. Notice of Issuance

*SEB
DSU USE ET(04)*

cc w/enclosures:
See next page

1/20/83
*Please see previous concurrence page.

OFFICE	DL:ORB#5	DL:ORB#5	DL:ORB#5	OELD*	DL:AD-SA		
SURNAME	HSmith:ajs*	TWambach*	DCrutchfield		FMiraglia		
DATE	01/04/83	01/05/83	01/14/83	01/06/83	01/14/83		

Docket No. 50-255

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Mr. David J. Vandewalle
 Nuclear Licensing Administrator
 Consumers Power Company
 1945 West Parnall Road
 Jackson, Michigan 49201

Dear Mr. Vandewalle:

SUBJECT: TECHNICAL SPECIFICATION CHANGES RELATED TO CERTAIN
 SURVEILLANCE REQUIREMENTS - PALISADES PLANT

The Commission has issued the enclosed Amendment No. 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 September 19, 1977.

The amendment approves changes to the Appendix A Technical Specification
 provisions related to surveillance requirements for pumps, valves, and
 diesel generators.

Copies of our related Safety Evaluation and the Notice of Issuance are
 also enclosed.

Sincerely,

Thomas V. Wambach, Project Manager
 Operating Reactors Branch #5
 Division of Licensing

Enclosures:

1. Amendment No. to License No. DPR-20
2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:
 See next page

CP 1-6-83
Typo on Notice
F.R. NOTICE AMENDMENT

JVM

OFFICE	DL: ORB#5	DL: ORB#5	DL: ORB#5	OELD	DL: AD-SA		
SURNAME	HSmith:ajs	TWambach	DCrutchfield		FMiraglia		
DATE	01/4/83	01/5/83	01/ /83	01/6/83	01/ /83		

Mr. David J. Vandewalle

- 2 -

January 20, 1983

cc

M. I. Miller, Esquire
Isham, Lincoln & Beale
Suite 4200
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Chicago, Illinois 60670

Mr. Paul A. Perry, 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

James G. Keppler, Regional Administrator
Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Township Supervisor
Covert Townshi
Route 1, Box 10
Van Buren County, Michigan 49043

Office of the Governor (2)
Room 1 - Capitol Building
Lansing, Michigan 48913

Palisades Plant
ATTN: Mr. Robert Montross
Plant Manager
Covert, Michigan 49043

U. S. Environmental Protection Agency
Federal Activities Branch
Region V Office
ATTN: Regional Radiation Representative
230 South Dearborn Street
Chicago, Illinois 60604

Resident Inspector
c/o U. S. NRC
Palisades Plant
Route 2, P. O. Box 155
Covert, Michigan 49043



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

CONSUMERS POWER COMPANY

DOCKET NO. 50-255

PALISADES PLANT

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 73
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 September 19, 1977 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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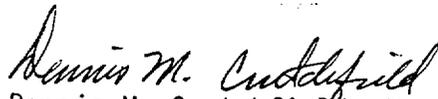
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Provisional Operating License No. DPR-20 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B (Environmental Protection Plan) as revised through Amendment No. 73, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. Within 90 days after the effective date of this amendment, or such other time as the Commission may specify, the Licensee shall satisfy any applicable requirement of P.L. 97-425 related to pursuing an agreement with the Secretary of Energy for the disposal of high-level radioactive waste and spent nuclear fuel.
4. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: January 20, 1983

ATTACHMENT TO LICENSE AMENDMENT NO. 73
PROVISIONAL OPERATING LICENSE NO. DPR-20
DOCKET NO. 50-255

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

PAGES

4-39

4-40

4-43

4.6 SAFETY INJECTION AND CONTAINMENT SPRAY SYSTEM TESTS

Applicability

Applies to the safety injection system, the containment spray system, chemical injection system and the containment cooling system tests.

Objective

To verify that the subject systems will respond promptly and perform their intended functions, if required.

Specifications

4.6.1 Safety Injection System

- a. System tests shall be performed at each reactor refueling interval. A test safety injection signal will be applied to initiate operation of the system. The safety injection and shutdown cooling system pump motors may be de-energized for this test.
- b. The system test will be considered satisfactory if control board indication and visual observations indicate that all components have received the safety injection signal in the proper sequence and timing (ie, the appropriate pump breakers shall have opened and closed, and all valves shall have completed their travel).
- c. All high pressure safety injection pumps except those otherwise required to be operable shall be demonstrated inoperable at least once per 12 hours whenever the temperature of one or more of the PCS cold legs is $\leq 250^{\circ}\text{F}$ by verifying that the control system fuses and their fuse holders for the HPSI pumps (P66A, P66B and P66C) have been removed from the circuit.

4.6.2 Containment Spray System

- a. System tests shall be performed at each reactor refueling interval. The test shall be performed with the isolation valves in the spray supply lines at the containment blocked closed. Operation of the system is initiated by tripping the normal actuation instrumentation.
- b. At least every five years the spray nozzles shall be verified to be open.
- c. The test will be considered satisfactory if visual observations indicate all components have operated satisfactorily.

4.6.3 Pumps

- a. The safety injection pumps, shutdown cooling pumps, and containment spray pumps shall be started at intervals not to exceed three months. Alternate manual starting between control room console and the local breaker shall be practiced in the test program.

4.6 SAFETY INJECTION AND CONTAINMENT SPRAY SYSTEMS TESTS (Contd)

- b. Acceptable levels of performance shall be that the pumps start, reach their rated shutoff heads at minimum recirculation flow, and operate for at least fifteen minutes.

4.6.4 Valves

- a. The SIRW storage tank outlet valves and containment sump isolation valves shall be exercised at least once per 92 days.
- b. The SI tank check valves shall be checked for operability during each refueling shutdown.
- c. Actuation of valves shall be alternated between control room panels and C-33 panel.

4.6.5 Containment Air Cooling System

- a. Emergency mode automatic valve and fan operation will be checked for operability during each refueling shutdown.
- b. Each fan and valve required to function during accident conditions will be exercised at intervals not to exceed three months.

Basis

The safety injection system and the containment spray system are principal plant safety features that are normally inoperative during reactor operation.

Complete systems tests cannot be performed when the reactor is operating because a safety injection signal causes containment isolation and a containment spray system test requires the system to be temporarily disabled. The method of assuring operability of these systems is therefore to combine systems tests to be performed during annual plant shutdowns, with more frequent component tests, which can be performed during reactor operation.

The annual systems tests demonstrate proper automatic operation of the safety injection and containment spray systems. A test signal is applied to initiate automatic action and verification made that the components receive the safety injection in the proper sequence. The test demonstrates the operation of the valves, pump circuit breakers, and automatic circuitry. (1, 2)

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 18 months 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 2500 kW.
- 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.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 73 TO PROVISIONAL OPERATING LICENSE NO. DPR-20-

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

Introduction

By letter dated September 19, 1977, Consumers Power Company transmitted a Technical Specification Change Request to amend Appendix A of Provisional Operating License DPR-20. The subject change involves clarification of selected surveillance requirements to make them consistent to plant design and the philosophy of Standard Technical Specifications.

Evaluation

The licensee has proposed to amend Technical Specifications, Appendix A, Paragraph 4.6.3.a to provide for alternate manual starting of safeguards pumps between the control room and the local breaker. The existing specification stipulates alternate starting between the control room and the C-33 panel. The subject pumps do not have control capability from the C-33 panel.

The Final Safety Analysis Report in Section 8.3.2.2 describes operational control of 2400 v. components (which includes safety injection, shutdown cooling and containment spray pumps) as follows:

"Operation of all 2400 volt equipment is effected and monitored in the control room...breakers on Buses 1C and 1D are also capable of being controlled at the switchgear."

We agree that this change should be made to Paragraph 4.6.3.a to correctly provide for testing of the subject components in accordance with plant design operational capability.

The licensee has proposed to amend Technical Specifications, Appendix A, Paragraph 4.6.4.a to test SIRW tank outlet and containment sump isolation valves at least once per 92 days, rather than during testing of the associated pumps. This will not change test frequency, as the valves are currently tested at intervals not to exceed three months, which is the frequency specified for pump testing. Rather, this change permits the licensee to test the valves at a different time within the same interval as pump tests are performed; such that the risk of a potential valve misalignment adversely affecting a running pump is reduced.

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We agree that this change should be made to Paragraph 4.6.4.a to minimize the potential for required valve testing having an adverse effect on reliability or operability of related safeguards pumps.

The licensee has also proposed to amend Technical Specifications, Appendix A, Paragraph 4.7.1.a to clarify that diesel generator start testing shall verify operability of the two independent starting circuits on an alternating basis. This would be consistent with current philosophy as developed in Standard Technical Specifications (specifically, NUREG-0212) wherein a staggered test basis is specified, with one starting circuit demonstrated operable in each test. Thus, the diesel need not be subjected to more than one start to satisfy one test, if the circuit being tested achieves a successful start.

We agree that this change should be made to clarify the intent of the Technical Specifications to provide for testing of the A and B starting circuits on an alternating test basis.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact, and, pursuant to 10 CFR 51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of an accident previously evaluated, does not create the possibility of an accident of a type different from any evaluated previously, and does not involve a significant reduction in a margin of safety, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) 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.

The following NRC personnel have contributed to this Safety Evaluation:

B. L. Jorgensen, NRC Region III
K. R. Ridgway, NRC Region III

Date: January 20, 1983

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-255CONSUMERS POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO PROVISIONAL
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 73 to Provisional Operating License No. DPR-20, to Consumers Power Company (the licensee), which revised the Technical Specifications for operation of the Palisades Plant (the facility) located in Van Buren County, Michigan. This amendment is effective as of its date of issuance.

The amendment approves changes to the Appendix A Technical Specification provisions related to surveillance requirements for pumps, valves, and diesel generators.

The application for amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated September 19, 1977, (2) Amendment No. 73 to License No. DPR-20, and (3) the Commission's related Safety Evaluation. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. and at the Kalamazoo Public Library, 315 South Rose Street, Kalamazoo, Michigan 49006. A single copy of items (2) and (3) may be obtained by request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 20th day of January, 1983.

FOR THE NUCLEAR REGULATORY COMMISSION


Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing