

July 28, 1992

Docket No. 50-255

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

Dear Mr. Slade:

SUBJECT: PALISADES PLANT - AMENDMENT NO. 151 TO FACILITY OPERATING LICENSE
NO. DPR-20 (TAC NO. M83225)

The Commission has issued the enclosed Amendment No. 151 to Facility Operating License No. DPR-20 for the Palisades Plant. This amendment consists of changes to the Technical Specifications (TS) in response to your application dated October 20, 1986, as modified April 30, 1987, and further modified on September 27, 1991.

This amendment corrects an erroneous statement with regard to the amount of cooling water flow to the Containment Air Coolers (CACs). The amendment changes TS Section 5.2.3.a to indicate that three CACs [required to be operable per TS Section 3.4.1.a] with a total cooling water flow of 5580 gpm at an inlet temperature of 85°F will remove 230 million BTU per hour.

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

Sincerely,

Original signed by

Armando Masciantonio, Project Manager
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 151 DPR-20
2. Safety Evaluation

cc w/enclosures:

See next page

OFFICE	LA:PDIII-1	DST:SPLB*	PM:PDIII-1 <i>asm</i>	OGC*	D:PDIII-1
NAME	MSHUTTLEWORTH <i>MLC</i>	CMcCRACKEN	AMASCIANTONIO	BMB	LMARSH
DATE	7/24/92	07/15/92	7/23/92	07/23/92	7/28/92

*SEE PREVIOUS CONCURRENCE
OFFICIAL RECORD COPY
FILENAME: B:\83225.AMD

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PDR ADDCK 05000255
P PDR

NRC FILE CENTER COPY

AP-1
DFOI

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2. Safety Evaluation

cc w/enclosures:
See next page

Subject to changes made discussed with and approved by AM

OFFICE	LA:PDIII-1	DST:SPLB	PM:PDIII-1 <i>adm</i>	OGC	D:PDIII-1
NAME	MSHUTTLEWORTH	CMcCRACKEN	AMASCIANTONIO	<i>BMB</i>	LMARSH
DATE	<i>7/13/92</i>	<i>7/12/92</i>	<i>7/15/92</i>	<i>7/12/92</i>	<i>1/1</i>

OFFICIAL RECORD COPY
FILENAME: B:\83225.AMD

Mr. Gerald B. Slade
Consumers Power Company

Palisades Plant

cc:

M. I. Miller, Esquire
Sidley & Austin
54th Floor
One First National Plaza
Chicago, Illinois 60603

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

Mr. Patrick M. Donnelly, Director
Safety and Licensing
Palisades Plant
27780 Blue Star Memorial Highway
Covert, Michigan 49043

U.S. Nuclear Regulatory Commission
Resident Inspector Office
Palisades Plant
27782 Blue Star Memorial Highway
Covert, Michigan 49043

Nuclear Facilities and Environmental
Monitoring Section Office
Division of Radiological Health
Department of Public Health
3423 N. Logan Street
P. O. Box 30195
Lansing, Michigan 48909

Gerald Charnoff, Esquire
Shaw, Pittman, Potts and Trowbridge
2300 N Street, N. W.
Washington DC 20037

Mr. David L. Brannen, Vice President
Palisades Generating Company
c/o Bechtel Power Corporation
15740 Shady Grove Road
Gaithersburg, Maryland 20877

Roy W. Jones, Manager
Strategic Program Development
Westinghouse Electric Corporation
4350 Northern Pike
Monroeville, Pennsylvania 15146

DATED: July 28, 1992

AMENDMENT NO. 151 TO FACILITY OPERATING LICENSE NO. DPR-20-PALISADES

Docket File
NRC & Local PDRs
PDIII-1 Reading
Palisades Plant File
B. Boger
J. Zwolinski
L. Marsh
M. Shuttleworth
A. Masciantonio
OGC-WF
D. Hagan, 3302 MNBB
G. Hill (4), P-137
Wanda Jones, MNBB-7103
C. Grimes, 11/F/23
ACRS (10)
GPA/PA
OC/LFMB
W. Shafer, R-III

cc: Plant Service list



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

CONSUMERS POWER COMPANY

DOCKET NO. 50-255

PALISADES PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 151
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 27, 1991 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;
 - 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 the license amendment and Paragraph 2.C.2 of Facility 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.151 , 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Ledyard B. Marsh, Director
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 28, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 151

FACILITY OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

Revise Appendix A Technical Specifications by removing the page identified below and inserting the attached page. The revised page is identified by the amendment number and contains vertical lines indicating the area of change.

REMOVE

5-2

INSERT

5-2

5.2 CONTAINMENT DESIGN FEATURES (Cont'd)

5.2.2 Penetrations

- a. All penetrations through the steel-lined concrete structure for electrical conductors, pipe, ducts, air locks and doors are of the double-barrier design.
- b. The automatically actuated containment isolation valves are designed to close upon high radiation or high pressure in the containment structure. No single component failure in the actuation system will prevent the isolation valves from functioning as designed.

5.2.3 Containment Structure Cooling Systems

- a. The containment air cooling system includes four separate self-contained units which cool the containment air during normal operation and limit the pressure rise in the event of a design accident. Three units, with a total cooling water flow of 5580 gpm with an inlet temperature of 85°F, will remove 230×10^6 Btu/hr of heat.
- b. The containment spray system is capable of removing 233×10^6 Btu/hr (two pumps) from the containment atmosphere at 283°F by spraying the water from the 270,000-gallon SIRW tank. Recirculation of spray water from the containment sump through heat exchangers into the containment atmosphere is also provided. Under this mode of operation, the heat removal capability is 167×10^6 Btu/hr based upon 4000 gpm of component cooling water flow with 114°F inlet temperature through the heat exchanger and 1420 gpm of spray water flow at 283°F inlet temperature.

5.3 NUCLEAR STEAM SUPPLY SYSTEM (NSSS)

5.3.1 Primary Coolant System Design Pressure and Temperature

The primary coolant system is designed, and shall be maintained:

- a. In accordance with the Code requirements specified in Section 4.2 of the FSAR with allowance for normal degradation pursuant to the surveillance requirements,
- b. For a pressure of 2500 psia,
- c. For a temperature of 650°F, except the pressurizer, which shall be 700°F, and
- d. With a volume of approximately 10,900 cubic feet.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 151 TO FACILITY OPERATING LICENSE NO. DPR-20

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

1.0 INTRODUCTION

By letter dated September 27, 1991, Consumers Power Company (CPC or the licensee) requested an amendment to the Technical Specifications (TS) appended to Facility Operating License No. DPR-20 for the Palisades Plant. The amendment request dated September 27, 1991, clarified and supplemented a previous request dated October 20, 1986, as amended April 30, 1987.

Consumers Power Company submitted a Technical Specification Change Request on October 20, 1986 which included a correction to Specification 5.2.3.a. The NRC issued Amendment No. 104 to the Palisades License on March 24, 1987 stating that the proposed change to Specification 5.2.3.a. would be the subject of future action. On April 30, 1987, CPC submitted a revision to the October 20, 1986, submittal which included a correction to Specification 5.2.3.a.; however, no amendment was issued which included this revision. Since that time, CPC has completed an evaluation of the containment air cooler design. The results of this evaluation are included in a report (NESE 923) prepared by American Air Filter entitled, "Investigation of Cooler Performance Prediction for Containment Air Coolers at the Palisades Nuclear Station," dated October 6, 1989. The results presented in that report indicate that with a total flow of 5580 gpm and an inlet temperature of 85°F the Containment Air Coolers have a design heat removal rate of 230×10^6 BTU/hr.

2.0 EVALUATION

The proposed amendment changes the TS by correcting an erroneous statement with regards to the amount of cooling water flow to the Containment Air Coolers (CACs). Technical Specification Section 5.2.3.a currently states that three CACs, each with a cooling water flow of 4875 gpm with an inlet temperature of 75°F, will remove 229 million BTU/hr of heat.

Based on the results of an evaluation of the CAC design, the licensee proposes that TS Section 5.2.3.a be revised as follows:

"...Three units, with a total cooling water flow of 5580 gpm and with an inlet temperature of 85°F, will remove 230×10^6 BTU/hr of heat."

The NRC staff has reviewed the information provided by licensee in support of the proposed TS change including the American Air Filter report NESE 923. Based on our review, we find the proposed change to TS Section 5.2.3.a acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Michigan State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to the installation or use of a facility component 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 there has been no public comment on such finding (57 FR 24669) (see also 55 FR 10530). 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

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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: A. Masciantonio

Date: July 28, 1992