

June 19, 1984

LS05-84-06-032

Docket No. 50-255

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

Dear Mr. VandeWalle:

SUBJECT: TECHNICAL SPECIFICATION CHANGES RELATED TO THE DESIGN FEATURES  
OF THE EMERGENCY CORE COOLING SYSTEM

Re: Palisades Plant

The Commission has issued the enclosed Amendment No. 83 to Provisional  
Operating License No. DPR-20 for the Palisades Plant. This amendment  
is in response to your application dated August 29, 1983.

This amendment deletes the third (spare) high pressure safety injection  
pump from the design features in Section 5.3.3 of the Technical Specifications.

A Notice of Consideration of Issuance of Amendment to License and Proposed  
No Significant Hazards Consideration Determination and Opportunity for  
Hearing related to the requested action was published in the Federal  
Register on March 22, 1984 (49 FR 10732). No request for hearing was  
received and no comments were received.

A copy of our related Safety Evaluation is also enclosed. This action  
will appear in the Commission's Monthly Notice Publication in the Federal  
Register.

Sincerely,  
Original signed by

Walter A. Paulson, Project Manager  
Operating Reactors Branch #5  
Division of Licensing

Enclosures:

- 1. Amendment No. 83 to License No. DPR
- 2. Safety Evaluation

cc w/enclosures:

See next page

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

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Nuclear Licensing Administrator  
Consumers Power Company  
1945 W. Parnall Road  
Jackson, Michigan 49201

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SUBJECT: TECHNICAL SPECIFICATION CHANGES RELATED TO THE DESIGN FEATURES  
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Re: Palisades Plant

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This amendment deletes the third (spare) high pressure safety injection pump from the design features in Section 5.3.3 of the Technical Specifications.

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A copy of our related Safety Evaluation is also enclosed. This action will appear in the Commission's Monthly Notice Publication in the Federal Register.

Sincerely,

A handwritten signature in cursive script that reads "Walter A. Paulson".

Walter A. Paulson, Project Manager  
Operating Reactors Branch #5  
Division of Licensing

Enclosures:

1. Amendment No. 83 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:  
See next page

Mr. David J. Vandewalle

cc

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Consumers Power Company  
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Nuclear Regulatory Commission, Region III  
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Township Supervisor  
Covert Township  
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Van Buren County, Michigan 49043

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Room 1 - Capitol Building  
Lansing, Michigan 48913

Palisades Plant  
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Plant Manager  
Covert, Michigan 49043

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

Resident Inspector  
c/o U.S. NRC  
Palisades Plant  
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Covert, Michigan 49043

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Environmental and Occupational  
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Lansing, Michigan 48909



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. 83  
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 29, 1983 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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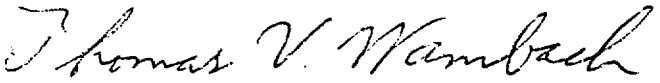
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 3.B of Provisional Operating License No. DPR-20 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, (Environmental Protection Plan) as revised through Amendment No. 83, 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

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

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: June 19, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 83

PROVISIONAL OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

Revise 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.

Remove Pages

5-3

Insert Pages

5-3

### 5.3 NUCLEAR STEAM SUPPLY SYSTEM (NSSS) (Contd)

#### 5.3.2 Reactor Core and Control

- a. The reactor core shall approximate a right circular cylinder with an equivalent diameter of about 136 inches and an active height of about 132 inches.
- b. The reactor core shall consist of approximately 43,000 Zircaloy-4 clad fuel rods containing slightly enriched uranium in the form of sintered  $UO_2$  pellets. The fuel rods shall be grouped into 204 assemblies.

A core plug or plugs may be used to replace one or more fuel assemblies subject to the analysis of the resulting power distribution.

- c. The fully loaded core shall contain approximately 211,000 pounds  $UO_2$  and approximately 56,000 pounds of Zircaloy-4.

Poison may be placed in the fuel bundles for long-term reactivity control.

- d. The core excess reactivity shall be controlled by a combination of boric acid chemical shim, cruciform control rods, and mechanically fixed boron rods where required. Forty-five control rods shall be distributed throughout the core as shown in Figure 3-5 of the FSAR. Four of these control rods may consist of part-length absorbers.

#### 5.3.3 Emergency Core Cooling System

An emergency core cooling system shall be installed consisting of various subsystems each with internal redundancy. These subsystems shall include four safety injection tanks, two high-pressure and two low-pressure safety injection pumps, a safety injection and refueling water storage tank, and interconnecting piping as shown in Section 6 of the FSAR.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 83 TO PROVISIONAL OPERATING LICENSE NO. DPR-20

CONSUMERS POWER COMPANY

DOCKET NO. 50-255

PALISADES PLANT

1.0 INTRODUCTION

By letter dated August 29, 1983 Consumers Power Company (the licensee) proposed a change to the Technical Specifications for the Palisades plant. This change would delete the third (spare) high pressure safety injection pump from the design features of the emergency core cooling system in Section 5.3.3 of the Technical Specifications because this spare pump has been adapted for auxiliary feedwater service.

A Notice of Consideration of Issuance of Amendment to License and Proposed No Significant Hazards Consideration Determination and Opportunity for Hearing related to the requested action was published in the Federal Register on March 22, 1984 (49 FR 10732). A request for hearing and public comments were not received.

2.0 DISCUSSION

By letter dated November 2, 1981, Consumers Power Company proposed to modify the Palisades Plant design in response to NUREG-0737 Action Item II.E.1.1, "Auxiliary Feedwater System Evaluation." The proposed design modification would adapt the existing spare high pressure safety injection (HPSI) pump, P66C, for auxiliary feedwater service. This modification is to be implemented during the current refueling outage that began in August 1983. The licensee's August 29, 1983 proposed Technical Specification change would modify the system description in Section 5.3.3 to reflect the design change.

3.0 EVALUATION

Section 3.3.1.d of the Palisades Technical Specifications requires that two HPSI pumps be operable (one per bus). Deleting the third (spare) HPSI pump does not impact this limiting condition for operation. In addition, the third HPSI pump was not relied on in the analysis of the performance of the Palisades Emergency Core Cooling System (ECCS). Accordingly, the deletion of this installed spare HPSI pump from the description of the design features of the ECCS does not affect the safety of the plant. Based on the review of the licensee's August 29, 1983 submittal, the NRC staff concludes that the deletion of the third (spare) HPSI pumps from Section 5.5.3 of the Technical Specification is acceptable.

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#### 4.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area. The staff has determined that the amendment involves no significant increase in the amounts 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 Sec 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 consideration 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.

#### 6.0 ACKNOWLEDGEMENT

W. Paulson prepared this evaluation.

Dated: June 19, 1984