

February 22, 1991

Docket No. 50-255

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

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SUBJECT: AMENDMENT NO. 138 TO FACILITY OPERATING LICENSE NO. DPR-20:  
(TAC NO. 77566)

The Commission has issued the enclosed Amendment No. 138 to Facility Operating License No. DPR-20 for the Palisades Plant. This amendment consists of changes to the Technical Specifications in response to your application dated August 21, 1990.

This amendment revises Palisades Plant Technical Specifications Table 2.3.1, Reactor Protective System Trip Setting Limits, to delete wording descriptive of the steam generator low water level trip limit that does not apply to the replacement steam generators.

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,

/s/

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

Enclosures:

1. Amendment No. 138 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:  
See next page

\*See previous concurrence

*LA/PD31:DRP345	*PE/PD31:DRP345	PM/PD31:DRP345	*D/PD31:DRP345	*OGC
PShuttleworth	CCarpenter	BHolian	LMarsh	
02/07/91	02/07/91	2/22/91	02/21/91	02/11/91

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P PDR

PALISADES AMEND 77566

*Handwritten initials and marks:*  
CPH  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

February 22, 1991

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:

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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,

A handwritten signature in black ink, appearing to read "Brian Holian".

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

Enclosures:

1. Amendment No. 138 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:  
See next page

Mr. Gerald B. Slade  
Consumers Power Company

Palisades Plant

cc:

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c/o U.S. Nuclear Regulatory Commission  
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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 FACILITY OPERATING LICENSE

Amendment No. 138  
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 21, 1990, 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.
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 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. 138, 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



J. 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: February 22, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 138

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 marginal lines indicating the area of change.

REMOVE

2-5

INSERT

2-5

TABLE 2.3.1

Reactor Protective System Trip Setting Limits

	<u>Four Primary Coolant Pumps Operating</u>	<u>Three Primary Coolant Pumps Operating<sup>(4)</sup></u>
1. Variable High Power <sup>(1)</sup>	≤10% above core power, with a minimum setpoint of ≤30% of rated power and a maximum of ≤106.5% of rated power	≤10% above core power with a minimum setpoint of ≤15% rated power and a maximum of ≤49% of rated power
2. Primary Coolant Flow <sup>(2)</sup>	≥95% of Primary Coolant Flow With Four Pumps Operating	≥60% of Primary Coolant Flow With Four Pumps Operating
3. High Pressure Pressurizer	≤2255 Psia	≤2255 Psia
4. Thermal Margin/Low Pressure <sup>(2,3)</sup>	$P_{trip} \geq$ Applicable Limits	Replaced by Variable High Power Trip and 1750 Psia Minimum Low-Pressure Setting
5. Steam Generator Low Water Level	Not Lower Than the Center Line of Feed-Water Ring	Not Lower Than the Center Line of Feed-Water Ring
6. Steam Generator Low Pressure <sup>(2)</sup>	≥500 Psia	≥500 Psia
7. Containment High Pressure	≤3.70 Psig	≤3.70 Psig

- (1) The VHPT can be 30% of rated power for power levels ≤ 20% of rated power.
- (2) May be bypassed below  $10^{-4}$ % of rated power provided auto bypass removal circuitry is operable. For low power physics tests, thermal margin/low pressure, primary coolant flow and low steam generator pressure trips may be bypassed until their react points are reached (approximately 1750 psia and 500 psia, respectively), provided automatic bypass removal circuitry at  $10^{-1}$ % rated power is operable.
- (3) Minimum trip setting shall be 1750 psia.
- (4) Operation with three pumps for a maximum of 12 hours is permitted to provide a limited time for repair/pump restart, to provide for an orderly shutdown or to provide for the conduct of reactor internals noise monitoring test measurements.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 138 TO FACILITY OPERATING LICENSE NO. DPR-20  
CONSUMERS POWER COMPANY  
PALISADES PLANT  
DOCKET NO. 50-255

1.0 INTRODUCTION

By letter dated, August 21, 1990, Consumers Power Company (the licensee) requested an amendment to the Technical Specifications (TS) appended to Facility Operating License No. DPR-20 for the Palisades Plant. The proposed amendment would change Palisades Plant TS Table 2.3.1, Reactor Protective System Trip Setting Limits, to delete wording descriptive of the set point for the original steam generator low water level trip limit. This descriptive wording does not apply to the replacement steam generators.

2.0 EVALUATION

The licensee proposes to change Palisades Plant TS Table 2.3.1, Reactor Protective System Trip Setting Limits.

As written, the TS describes the minimum trip set point for the steam generator water level as "Not Lower Than The Center Line of Feedwater Ring which is located 6'-0" below normal water level." The requested change would delete the words "...which is located 6'-0" below normal water level" since this wording does not apply to the replacement steam generators. There will be no change in the actual reactor trip set point on steam generator low water level.

The normal water level is maintained in the replacement steam generator at approximately 2'-0" below the steam separator support platform. This is the same location it was maintained in the original steam generators; however, for the replacement steam generators this location is approximately 5'-8" above the center line of the feedwater ring vice the 6'-0" for the original steam generators.

The replacement steam generators have greater secondary inventory than did the original steam generators. This, coupled with the fact that the low water level reactor trip has not been changed leads to the conclusion that loss of feedwater flow events are not adversely affected by removing the TS wording relating the trip set point to normal water level. Additionally, the feedwater ring is permanently attached to the steam generator and, therefore, provides a ready reference point from which to measure the reactor trip level, making further descriptive wording superfluous. As such, this change is considered acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in 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 findings. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Section 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.

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

Principal Contributor: C. E. Carpenter, Jr.

Dated: February 22, 1991