

May 30, 1989

Docket No. 50-255
Serial No. PAL-89-020

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

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Dear Mr. Berry:

SUBJECT: AMENDMENT NO. 123 TO PROVISIONAL OPERATING LICENSE NO. DPR-20:
(TAC NO. 64992)

The Commission has issued the enclosed Amendment No. 123 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 March 10, 1987.

This amendment revises the plant Technical Specifications to provide clarifications and editorial corrections to the Radiological Effluent Technical Specifications.

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

Sincerely,

/s/

Albert W. De Agazio, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 123 to License No. DPR-20
2. Safety Evaluation

cc w/enclosures:
See next page

*See previous concurrence

* LA/PD31: DRSP PShuttleworth 5/15/89	* PM/PD31: DRSP JStefano 5/16/89	* PM/PD31: DRSP ADe Agazio 5/16/89	(A)D/PD31: DRSP LYande11 5/24/89	* OGC 5/17/89
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5/15/89

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5/16/89

PM/PD31:DRSP
ADe Agazio
5/16/89

(A)D/PD31:DRSP
LYandell
5/ /89

w/changes to
OGC
SE
5/17/89



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

May 30, 1989

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Sincerely,

A handwritten signature in cursive script that reads "Albert W. De Agazio".

Albert W. De Agazio, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

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2. Safety Evaluation

cc w/enclosures:
See next page

Mr. Kenneth W. Berry
Consumers Power Company

Palisades Plant

cc:

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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. 123
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 March 10, 1987, 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 Provisional Operating License No. DPR-20 is hereby amended to read as follows:

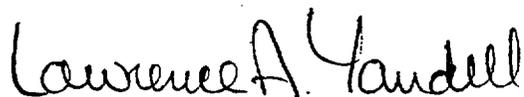
Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 123, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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3. This license amendment is effective as of the date of its issuance and shall be implemented not later than July 14, 1989.

FOR THE NUCLEAR REGULATORY COMMISSION



Lawrence A. Yandell, Acting Director
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 30, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 123

PROVISIONAL OPERATING LICENSE NO. DPR-20

DOCKET NO. 50-255

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

<u>REMOVE</u>	<u>INSERT</u>
3-115	3-115
4-14a	4-14a
4-92	4-92
4-94	4-94

TABLE 3.24-1

RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

<u>INSTRUMENT</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>ACTION</u>
1. GROSS RADIOACTIVITY MONITORS PROVIDING ALARM AND AND AUTOMATIC TERMINATION OF RELEASE		
a. Liquid Radwaste Effluent Line (RIA 1049)	(1)	28
b. Steam Generator Blowdown Effluent Line (RIA 0707)	(1)	29
2. GROSS BETA OR GAMMA RADIOACTIVITY MONITORS PROVIDING ALARM BUT NOT PROVIDING AUTOMATIC TERMINATION OF RELEASE		
a. Service Water System Effluent Line (RIA 0833)	(1)	30
b. Turbine Building (Floor Drains) Sumps Effluent Line (RIA 5211)	(1)	30
3. FLOW RATE MEASUREMENT DEVICES		
a. Liquid Radwaste Effluent Line (FIC 1051 or 1050)	(1)	31
4. CONTINUOUS COMPOSITE SAMPLERS (Alarm/Trip Setpoints are not applicable)		
a. Turbine Building Sumps Effluent Line	(1)	30
b. Service Water System Effluent	(1)	30

Table 4.2.1
Minimum Frequencies for Sampling Tests

	<u>Test</u>	<u>Frequency</u>	<u>FSAR Section Reference</u>
6. Spent Fuel Pool	Boron Concentration	Monthly ⁽⁷⁾	9.4
	Bulk Water Temperature	Continuously when bundles are stored in tilt pit racks with less than ⁽⁶⁾ one year decay	None
7. Secondary Coolant	Coolant Gross Radio-activity	3 times/7 days with a maximum of 72 hours between samples	None
	Isotopic Analysis for Dose Equivalent I-131 Concentration	a) 1 per 31 days, whenever the gross activity determination indicates iodine concentrations greater than 10% of the allowable limit b) 1 per 6 months, whenever the gross activity determination indicates iodine concentrations below 10% of the allowable limit	

- (1) A daily sample shall be obtained and analyzed if fission product monitor is out of service.
- (2) After at least 2 EFPD and at least 20 days since the last shutdown of longer than 48 hours.
- (3, 4, 5) Deleted.
- (6) Reference Specification 3.8.5 for maximum bulk water temperature and monitoring requirements.
- (7) Reference Bases section of Specification 3.8 and Section 5.4.2f of the Design Features for minimum boron concentration (≥ 1720 ppm).

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TABLE 4.24-1

RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL FUNCTIONAL TEST</u>
1. GROSS RADIOACTIVITY MONITORS PROVIDING ALARM AND AUTOMATIC TERMINATION OF RELEASE				
a. Liquid Radwaste Effluent Line (RIA 1049)	P	P	R(3)	Q(1)(2)
b. Steam Generator Blowdown Effluent Line (RIA 0707)	D	M	R(3)	Q(1)(2)
2. GROSS BETA OR GAMMA RADIOACTIVITY MONITORS PROVIDING ALARM BUT NOT PROVIDING AUTOMATIC TERMINATION OF RELEASE				
a. Service Water System Effluent Line (RIA 0833)	D	M	R(3)	Q(2)
b. Turbine Building (Floor Drains) Sumps Effluent Line (RIA 5211)	D	M	R(3)	Q(2)
3. FLOW RATE MEASUREMENT DEVICES				
a. Liquid Radwaste Effluent Line (FIC 1051 or 1050)	D(4)	NA	R	Q
4. TURBINE SUMP EFFLUENT COMPOSITER	D(4)	NA	NA	NA
5. SERVICE WATER SYSTEM EFFLUENT COMPOSITE SAMPLER	D(4)	NA	NA	NA

TABLE 4.24-2 (cont)

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL FUNCTIONAL TEST</u>	<u>MODES IN WHICH SURVEILLANCE REQUIRED</u>
5. MAIN STEAM SAFETY AND DUMP VALVE DISCHARGE LINE					
a. Gross Gamma Activity Monitor	D	M	R(3)	Q(2)	Above 325°F
6. ENGINEERED SAFEGUARDS ROOM VENT SYSTEM					
a. Noble Gas Activity Monitor	D	M	R(3)	Q(1)(2)	Above 210°F

TABLE NOTATION

- (1) The CHANNEL FUNCTIONAL TEST shall also demonstrate that automatic isolation of this pathway occurs if instrument indicates measured levels above the alarm/trip set point.
- (2) The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if either of the following conditions exists.
 - a. Instrument indicates measured levels above the alarm set point (not applicable for Item 3.d, Hi Range Noble Gas).
 - b. Circuit failure.
- (3) a. The CHANNEL CALIBRATION shall be performed using one or more of the reference standards traceable to the National Bureau of Standards or using standards that have been obtained from suppliers that participate in measurement assurance activities with NBS. These standards shall permit calibrating the system over its intended range of energy and measurement range.
 - b. For subsequent CHANNEL CALIBRATION, sources that have been related to the (a) calibration may be used.
- (4) CHANNEL CHECK shall consist of verifying indication of flow during periods of release. CHANNEL CHECK shall be made at least once per 24 hours on days on which continuous or batch releases are made.

TABLE FREQUENCY NOTATION

D	At least once per 24 hours	Q	At least once per 92 days
M	At least once per 31 days	R	At least once per 18 months
P	Prior to radioactive batch release	W	At least once per week



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 123 TO PROVISIONAL OPERATING LICENSE NO. DPR-20

CONSUMERS POWER COMPANY

PALISADES PLANT

DOCKET NO. 50-255

1.0 INTRODUCTION

By letter dated March 10, 1987, the Consumers Power Company (the licensee) submitted proposed Technical Specification (TS) changes intended to clarify and editorially correct errors to the Radiological Effluent Technical Specifications (RETS) implemented by Amendment No. 85 to the Palisades Provisional Operating License. The proposed changes were committed to by the licensee in Licensee Event Report 86-037, in which the licensee identified two discrepancies in the RETS concerning the Hi Range Noble Gas Monitor annunciation, and the continuous sampling of the service water effluent.

The proposed TS changes are as follows:

- a. In Table 3.24-1, change Item 4 to read:
 - "4. CONTINUOUS COMPOSITE SAMPLERS (Alarm/Trip Setpoint are not applicable)
 - a. Turbine Building Sumps Effluent Line (1) 30
 - b. Service Water System Effluent (1) 30"
- b. In Table 4.2.1, delete the sampling test for gas radioactivity by the air ejector gas monitor as listed in Item 7. Also delete the corresponding footnote 5 from the table.
- c. In Table 4.2.1 delete Items 8, 9, and 10. Also, delete the associated footnote 4 from this table.
- d. In Table 4.24-1, add Item 5 to read:

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL FUNCTIONAL TEST</u>
5. SERVICE WATER EFFLUENT COMPOSITE SAMPLER	D(4)	NA	NA	NA

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e. In Table 4.24-2, change Table Notation (2)a to read:

"a. Instrument indicates measured levels above the alarm set point (not applicable for Item 3.d, Hi Range Noble Gas.)"

2.0 DISCUSSION

The basis and explanation for the above listed TS changes provided by the licensee is as follows:

- ° Change a. revises TS Table 3.24-1 to add a continuous service water system effluent sampler (continuous sampler) to the list of effluent monitoring instruments in the table. The licensee indicated that addition of the continuous sampler in TS Table 3.24-1 is necessary for consistency with TS Table 4.24-3 which implies that a composite sampler is available in the plant. (The continuous sampler was installed in the plant subsequent to the submittal of this proposed change; this was confirmed in a telephone conversation with the licensee on April 6, 1989).
- ° Change b. eliminates a redundant requirement from TS Table 4.2.1 and removes the corresponding footnote 5. The equivalent sample requirement is already provided by Item 2, TS Table 3.24-2.
- ° Change c. deletes the sampling requirements provided by Items 8, 9, and 10 in TS Table 4.2.1 since these requirements are equivalent to those already specified in TS Table 4.24-3 for liquid waste batch releases, and in TS Table 4.24-5 for radioactive gas release and for stack gas particulate samples.
- ° Change d. adds to TS Table 4.24-1 the requirement for periodic checks of the service water system effluent composite sampler (installed and operable July 20, 1987) to determine its operating status.
- ° Change e. adds an exception for the Hi Range Noble Gas Monitor for control room annunciation if the instrument indicates measured levels above the alarm set point. This monitor does not have this capability, nor was the monitor designed or expected to perform the annunciation function. The alarms provided by the Normal Range Monitor are utilized to signal the need for emergency action. Effluents are closely monitored once an alarm is received so that any additional alarms of higher than the rates monitored by the Normal Range Monitor would be unnecessary.

2.2 EVALUATION

We have reviewed each of the TS changes proposed and the basis and explanation provided by the licensee for proposing these changes, and agree with the licensee that the changes are essentially administrative in nature. The changes clarify the sampling requirements for service water discharge and correct errors in the Radiological Effluent Technical Specifications implemented by License Amendment No. 85. We have also confirmed that the

Hi Range Noble Gas Monitor was incorrectly noted in TS Table 4.24-2 as requiring the high alarm control room annunciator to be listed, in that the monitor was never intended to function as such; and agree that the Normal Range Monitor provides an alarm for adequately initiating emergency plan classification and action.

We accordingly conclude that the TS changes are acceptable as proposed.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20, a change to the surveillance requirements. 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. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 50.22(b), no environmental impact statement or environmental assessment need to 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 the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: May 30, 1989

Principal Contributor: John J. Stefano, NRR