



**Consumers  
Power  
Company**

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

*DMB*

PRINCIPAL STAFF	
RA	DRP
D/RA	DRS
RC	DRS <i>orig 1</i>
PAO	ML
SGA	OL
ETC	OI
DRMA	FILE <i>na</i>

June 26, 1984

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James G Keppler, Administrator  
Region III  
US Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

DOCKET 50-255 - LICENSE DPR-20 -  
PALISADES PLANT - 1983 ANNUAL ENVIRONMENTAL OPERATING REPORT

Appendix B to Provisional Operating License No DPR-20 for the Palisades Plant dated January 22, 1981 requires Consumers Power Company to submit annually before May 1 the Environmental Operating Report. The extended refueling and Steam Generator Inspection outage at Palisades limited the availability of the cognizant people on this report and has resulted in a delay in submittal. The attached report covering the period January 1 to December 31, 1983 fulfills the referenced reporting requirements.

*Brian D. Johnson*

Brian D Johnson  
Staff Licensing Engineer

*Enw*

CC Director, Office of Nuclear Reactor Regulation  
Director, Office of Inspection and Enforcement  
NRC Resident Inspector - Palisades

Attachment

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OC0684-0009A-NL02

*JUN 28 1984*

Attachment

Consumers Power Company  
Palisades Plant - Docket 50-255

1983 ANNUAL ENVIRONMENTAL OPERATING REPORT  
January 1 - December 31, 1983

June 26, 1984

B407030382 B40626  
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3 Pages

1983 ANNUAL ENVIRONMENTAL OPERATING REPORT  
PALISADES PLANT

1.0 BACKGROUND

Appendix B to Provisional Operating License No DPR-20 for the Palisades Plant, Consumers Power Company, is entitled "Environmental Protection Plan (Non-Radiological)". This document requires Consumers Power Company to submit to the Nuclear Regulatory Commission an Annual Environmental Operating Report which describes implementation for the Environmental Protection Plan. The period covered by this third annual report is January 1 to December 31, 1983.

During this reporting period, the Palisades Plant generated a total of 3,980,520 MWh gross of electrical energy with a capacity factor of 57.3%.

The plant shut down for refueling in August, and did not operate for the balance of the year.

2.0 ENVIRONMENTAL PROTECTION ACTIVITIES

2.1 METEOROLOGICAL MONITORING

A cooling tower drift study was completed in 1978 and submitted to NRC. That study showed that cooling tower effects on the environment were very localized, and that overall environmental impact is negligible. No further work was done during 1983 on this topic.

2.2 HERBICIDE APPLICATION

No herbicides were applied to power line right-of-way at the Palisades site in 1983.

2.4 ENVIRONMENTAL PROTECTION PLAN INFORMATION

A submission was made to NRC on February 8, 1984, of information requested by NRC relative to Consumers Power Company's application for a full term operating license for the Palisades Plant. This information included:

- a. Documents relating to application for a renewed NPDES permit.
- b. Documents relating to the Palisades Thermal Plume study.
- c. Documents relating to cooling water modifications based on increased heat rejection to the lake.
- d. Aerial photographs showing cooling tower drift impact, and also photos of plant modifications having potential environmental impact.

Since these submissions were made to NRC in February, these matters are not further discussed in this document.

### 3.0 NPDES COMPLIANCE EVALUATION INSPECTION

A formal NPDES Compliance Evaluation Inspection was not conducted during 1983 by the Michigan Department of Natural Resources. The MDNR chose instead to conduct what was termed a "Facility Inspection", mainly for the purpose of familiarizing new staff members with the Palisades Plant. No new compliance problems were identified as a result of this visit.

### 4.0 SPILL PLAN

The Palisades Plant did a major revision of the PIPP/SPCC Spill Plan during 1983. The new plan was signed off by the cognizant engineer on August 22, 1983, and submitted to MDNR for approval on October 7, 1983. Formal approval has not yet been received from MDNR but the plan is officially in use as of August 22, 1983.

### 5.0 NPDES PERMIT RELATED NON-COMPLIANCES

Appendix B to Provisional Operating License Number DPR-20 for the Palisades Plant requires that the Annual Environmental Operating Report should include a list of Environmental Protection Plan (EPP) non-compliances and corresponding corrective actions.

During 1983 there were five instances when the permitted value for oil and grease was exceeded to a very small extent. Also during 1983 there was one instance of exceeding the total residual chlorine limit, and two instances of exceeding the pH limit. There were also two failures during 1983 to take required environmental monitoring samples. All 1983 non-compliances are listed in Table 1. During 1983 the overall impact of Palisades Plant operations on the environment was negligible. There were no potentially significant unreviewed environmental issues which took place during the year. The total number of non-compliances for 1983 was down by 50% compared to 1982.

TABLE 1  
1983 NPDES NON-COMPLIANCES

<u>Incident No</u>	<u>Date</u>	<u>Outfall Number</u>	<u>Parameter</u>	<u>Permitted Concentration</u>	<u>Measured Concentration</u>
PAL 83-04-AD80	4/9/83	001	pH	6.0 to 9.0	5.5
PAL 83-04-AD81	4/18/83	00G	Oil & Grease	20 mg/1 max	36.2 mg/1
PAL 83-04-AD82	6/3/83	00F	Valve failure permitted neutralizer tank to dump without any monitoring		
PAL 83-06-AD83	6/15/83	00G	Oil & Grease	20 mg/1 max	37.2 mg/1
PAL 83-06-AD84	6/20/83	00G	Oil & Grease	20 mg/1 max	34.2 mg/1
PAL 83-06-AD85	6/20/83	001	Total Residual Chlorine	0.3 mg/1	0.42 mg/1
PAL 83-06-AD84	6/30/83	00G	Oil & Grease	15 mg/1 Monthly Average	18.6 mg/1
PAL 83-08-AD86	8/15/83	00G	Oil & Grease	20 mg/1 max	35.2 mg/1
*	8/18/83	00G	Oil & Grease	20 mg/1 max	27.5 mg/1
PAL-83-10-AD87	10/28/83	001	pH	6.0 to 9.0	9.8
PAL 83-11-AD88	11/20/83	00G	Plant failed to take weekly sample for Oil & Grease analysis.		

\*An NPDES Notification Report was not filed on this incident. There is presently a Deviation Report outstanding on this (D-NPS-84-05).