

ATTACHMENT
Consumers Power Company
Palisades Plant
Docket 50-255

1984 ANNUAL ENVIRONMENTAL OPERATING REPORT
January 1 - December 31, 1984

April 25, 1985

5 pages

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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 prior to May 1 of each year which describes implementation of the Environmental Protection Plan. The period covered by this annual report is January 1 to December 31, 1984.

The Plant was shut down for maintenance and refueling activities until July 24, 1984. From this date until the end of the year, the Plant operated a total of 55.7 days and produced a total of 867,350 megawatts-hours gross of electrical energy.

During 1984, the overall impact of Palisades Plant operations on the environment was negligible. There were no potentially significant unreviewed environmental issues relating to Plant operation.

2.0 ENVIRONMENTAL MONITORING

2.1 Meteorological Monitoring to Document Effects of Cooling Tower Operation on Meteorological Variables

No activities in this area for 1984.

2.2 Herbicide Application

No herbicides were applied to transmission corridor right-of-way at Palisades during 1984.

3.0 USEPA/MIDNR RCRA COMPLIANCE INSPECTION

The Palisades Plant was inspected on September 28, 1984 for compliance with the federal hazardous waste management regulations. No items of noncompliance were identified during the inspection.

4.0 NONROUTINE REPORTS

4.1 Spills Reported During 1984

In compliance with State and Federal spill reporting requirements, four spill incidents were reported to the Michigan DNR during 1984. A summary of the spill events is contained in Appendix A.

In addition to the above, a transformer was found to be leaking dielectric fluid contaminated with low level polychlorinated biphenyls (PCBs) on site. All PCB contaminated dielectric fluid was contained by the transformer sump and was disposed of in accordance with applicable regulations. During the repair of the transformer, the system was drained, flushed and refilled with non-PCB (less than 5 ppm) dielectric fluid. The transformer will be tested during 1985 so that it can be reclassified as a non-PCB unit.

4.2 NPDES Compliance

In accordance with NPDES reporting requirement, fourteen (14) NPDES notification reports were submitted to the Michigan Department of Natural Resources (MDNR)/EPA. These reports are summarized in Appendix B.

As a result of the continued inability to meet NPDES permit limitation for oil and grease at the discharge of the building drain tank, a new oil/water separator was installed and placed in operation in November 1984.

Appendix A

Spill Incidents in 1984

January 11, 1984 - Fuel Oil Spill to Ground at Tank T-10

During delivery of 10,000 gallons of #2 fuel oil to the diesel fuel oil storage tank (T-10), about 500 gallons were discharged through the vent on the tank to the snow surrounding the tank. It is estimated that 90% of the spilled fuel oil was recovered.

February 24, 1984 - Fuel Oil Spill to Ground at Tank T-10

During delivery of 10,000 gallons of #2 fuel oil to the tank T-10, about 30-40 gallons were discharged through the tank vent to the sand surrounding the tank.

September 25, 1984 - Fuel Oil Spill to Ground at Tank T-10

During delivery of fuel oil to tank T-10, fuel oil was discharged through the vent on the tank to the sand surrounding the tank. The amount lost was estimated to be about 250 gallons. Following this incident the following actions were taken to clean up the area and also to prevent future occurrences of this type.

1. About 200 yards of sand were removed from tank T-10 area and disposed of. After verification that all fuel oil was removed by inspection by a Michigan Department of Natural Resources representative, the area was back filled.
2. Instructions were issued to Material Services and Operations personnel that only 5000 gallons would be purchased at one time to reduce the spill potential. Instructions were issued to Operations personnel to more closely control T-10 fill evolutions.
3. Palisades Engineering personnel are analyzing the incidents and developing plans to insure the long term reliability of the system to prevent future spills.

October 12, 1984 - Caustic Soda Spill at Feedwater Purity

The caustic transfer line to the waste neutralizer tank (T-921) separated and allowed about 50 gallons of caustic soda solution (50%) to be lost to the ground under the tank. The cleanup included the removal, disposal and replacement of approximately 20 cubic yards of sand.

Appendix B

1984 NPDES Noncompliances

Date of Occurrence	Outfall	Parameter	Noncompliance
*1/1/84 - 2/3/84	001	pH	Failed to monitor pH on continuous basis; samples collected each shift.
*1/4/84 - 2/8/84	000	Temperature	Failed to monitor temperatures on continuous basis; samples collected once per shift.
2/17/84	001	Total Chlorine	Failed to monitor chlorine at required frequency. Aborted chlorination did not allow sufficient time for the three required lake outfall samples during a chlorination.
3/11/84 - 3/14/84	00E	Cr & B	Not analyzed as required.
5/20/84 - 6/15/85	00F	pH, Sulfates, TSS, Flow	Failed to monitor temporarily relocated demineralizer rinse line.
5/29/84	00G	Oil & Grease	The 20 mg/l limit was exceeded; analyzed value was 43 mg/l.
7/2/84	00G	Oil & Grease	The 20 mg/l limit was exceeded; analyzed value was 26.8 mg/l.
7/9/84	00G	Oil & Grease	The 20 mg/l limit was exceeded; analyzed value was 31.1.
7/16/84	00G	Oil & Grease	The 20 mg/l limit was exceeded; analyzed value was 26.6.
7/24/84	00G	Oil & Grease	The 20 mg/l limit was exceeded; analyzed value was 28.4.

* One report for both occurrences

Appendix B

1984 NPDES Noncompliances

Date of Occurrence	Outfall	Parameter	Noncompliance
7/84	00G	Oil & Grease	The 15 mg/l monthly average was exceeded; analyzed value was 20.2.
9/17/84	00G	Oil & Grease	Exceeded 20 mg/l limit; analyzed value was 22.3 mg/l.
9/22/84 - 9/23/84	001	pH	Failed to monitor on continuous basis.
10/22/84	00G	Oil & Grease	Exceeded 20 mg/l limit; analyzed value was 23.9 mg/l.
11/20/84 - 11/21/84	00G	-----	Bypassed turbine sump oil separator systems.



Consumers
Power
Company

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April 25, 1985

James G Keppler, Administrator
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US Nuclear Regulatory Commission
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DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT -
1984 ANNUAL ENVIRONMENTAL OPERATING REPORT

Appendix B (Environmental Protection Plan) to Provisional Operating License No DPR-20 for the Palisades Plant requires Consumers Power Company to submit the Environmental Operating Report annually prior to May 1. The attached report covering the period from January 1 to December 31, 1984 fulfills the referenced report requirements.

Ralph R Frisch
Senior Licensing Analyst

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

Attachment

APR 29 1985