



April 26, 2006

Facility Operating License
Appendix B, Section 5.4.1

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Palisades Nuclear Plant
Docket 50-255
License No. DPR-20

2005 Nonradiological Environmental Operating Report

Nuclear Management Company, LLC (NMC), is providing the Palisades Nuclear Plant (PNP) Annual Nonradiological Environmental Operating Report for 2005. This report was prepared in accordance with the PNP Facility Operating License, Appendix B, section 5.4.1. The attached report describes the implementation of the Environmental Protection Plan from January 1, 2005, through December 31, 2005.

Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

Paul A. Harden
Site Vice President, Palisades Nuclear Plant
Nuclear Management Company, LLC

Enclosure (1)
Attachment (1)

CC Administrator, Region III, USNRC
Project Manager, Palisades, USNRC
Resident Inspector, Palisades, USNRC

ENCLOSURE
2005 NONRADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

1.0 BACKGROUND

Appendix B of the Facility Operating License for the Palisades Nuclear Plant (PNP) requires the submittal of an annual environmental operating report to the NRC, describing the implementation of the Environmental Protection Plan (EPP) during the previous year. The period covered by this report is January 1, 2005, through December 31, 2005.

PNP operated for 8443.3 hours and produced a net total of 6,645,839 MWHe during 2005. This represents 94.2% of the net demonstrated capacity of the design electric rating of 805 MWe.

2.0 ENVIRONMENTAL IMPACT EVALUATIONS

Several procedure revisions and facility modifications were evaluated during 2005 per Palisades Administrative Procedure 4.22, "Nonradiological Environmental Program."

Consumers Energy Company Environmental and Technical Services department reviewed four procedures and one modification for determination of impact on the environment.

Modification, "2005-Mod-008, Liquid Radwaste Processing," was implemented. This modification installed a Duratek, Inc. Advanced Liquid Processing (ALP's) system, and isolated the plant evaporator processing equipment.

There were no changes, tests, or experiments that involved an unreviewed environmental question and no projects required EPP changes.

3.0 ADDITIONAL ACTIVITIES AUTHORIZED UNDER NPDES

The National Pollutant Discharge Elimination System (NPDES) permit MI0001457 did not require a change or revision during 2005.

4.0 UNUSUAL ENVIRONMENTAL EVENTS

No unusual environmental events occurred during 2005.

5.0 ENVIRONMENTAL MONITORING

Documentation of the effect of cooling tower operation on meteorological variables was required for two years following the conversion from the once-through cooling system to the cooling towers. Because the cooling towers have been in operation for 31 years, meteorological monitoring and other monitoring activities related to the cooling towers were not required during 2005.

Herbicides were not applied to the transmission line exit corridor in 2005. Rose Exterminator Company treated other areas of the property for vegetative management during 2005. The application of herbicides is documented in Attachment 1.

6.0 NON-ROUTINE REPORTS

During 2005, no non-routine reports were generated.

**ATTACHMENT 1
HERBICIDE TREATMENTS**

Company: Bio-Serv Corp. D.B.A., Rose Exterminator Company
1025 Huntly Rd.
Niles, Michigan 49120

Dates of Treatment: 4-11-05, 4-12-05, 4-13-05, 4-14-05, 4-21-05, 4-25-05, 4-29-05,
6-23-05

Commercial Name: Karmex DF herbicide, Roundup Pro herbicide

Chemical Name: Karmex DF (Diuron) Manufactured by Griffin, Roundup Pro
(Glyphosate), Manufactured by Monsanto

Concentration of Active Ingredient in Field Use Mix: 9-11 pounds Karmex per acre
per 100 gallons of water with 1.2% Roundup Pro

Diluting Substance: Water

Rate of Application: 9-11 pounds Karmex with a 1.2% solution of Roundup Pro in 100
gallons of water per acre

Total Amount Used: 1620 gallons

Method of Application: Broadcast Spray

Frequency of Application: Once per year in the springtime, then as needed.

Location: Along and near roadways, fence lines, walkways, parking lots, containment
areas, substations, cooling towers, protected area and microwave zones.

Purpose of Treatment: Control of weed species.