



Entergy Nuclear Operations, Inc.
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043
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April 15, 2009

Facility Operating License
Appendix B, Section 5.4.1

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

SUBJECT: 2008 Annual Non-radiological Environmental Operating Report

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

Dear Sir or Madam:

Entergy Nuclear Operations, Inc (ENO) is providing the Palisades Nuclear Plant (PNP) Annual Non-radiological Environmental Operating Report for 2008. This report was prepared in accordance with the PNP Renewed Facility Operating License, Appendix B, section 5.4.1. The attached report describes the implementation of the Environmental Protection Plan from January 1, 2008, through December 31, 2008.

Summary of Commitments

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

Sincerely,

A handwritten signature in black ink, appearing to read "Terry Davis".

Terry A. Davis
Licensing Manager
Entergy Nuclear Operations, Inc.

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Attachment: 1. 2008 Annual Nonradiological Environmental Operating Report
2. Herbicide Treatments

cc: Administrator, Region III, USNRC
Project Manager, Palisades, USNRC
Resident Inspector, Palisades, USNRC

ATTACHMENT 1
2008 ANNUAL NON-RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

1.0 BACKGROUND

Appendix B of the Renewed Facility Operating License for the Palisades Nuclear Plant (PNP) requires the submittal of an annual environmental operating report to the Nuclear Regulatory Commission (NRC), describing the implementation of the Environmental Protection Plan (EPP) during the previous year. The reporting period is January 1, 2008, through December 31, 2008.

The PNP operated for 8,600 hours and produced a net total of 6,837,236 MWh during 2008. This represents 96.7% of the net demonstrated capacity of the design electric rating of 805 MWe.

2.0 ENVIRONMENTAL IMPACT EVALUATIONS

Two engineering change documents were evaluated per Entergy Nuclear Operations, Inc. (ENO) procedure, EN-EV-115, "Environmental Reviews and Evaluations," during 2008.

Engineering Changes, EC 7099, "Cathodic Protection Modification," and EC 6616, "Installation of Additional Monitoring Wells," required permitting from the Van Buren County Soil Erosion & Sedimentation Control, permit No. 07-1-103.

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

3.0 ADDITIONAL ACTIVITIES AUTHORIZED UNDER NPDES

ENO submitted the PNP National Pollutant Discharge Elimination System (NPDES) Permit No. MI0001457 renewal application to the Michigan Department of Environmental Quality on March 28, 2008.

4.0 UNUSUAL ENVIRONMENTAL EVENTS

No unusual environmental events occurred during 2008.

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 34 years, meteorological monitoring and other monitoring activities related to the cooling towers were not required during 2008.

Herbicides were not applied to the transmission line exit corridor in 2008. Bio-Serv Corp., D.B.A. Rose Pest Solutions treated other areas of the property for vegetation management during 2008. The application of herbicides is documented in Attachment 2.

6.0 NON-ROUTINE REPORTS

During 2008, no non-routine reports were generated.

ATTACHMENT 2

HERBICIDE TREATMENTS

Company: Bio-Serve Corp. D.B.A., Rose Pest Solutions
2714 S. 11th St. Suite B.
Niles, Michigan 49120

Date of Treatment: May 29, 2008

Commercial Names of Products in Solution: Karmex, Oust XP, Round Up Pro

Chemical Names of Products: **Karmex DF;** Diuron, **Oust XP;** (Sulfometuron Methyl)(Methyl 2- [[[(4,6-dimethyl-1,2-pyrimidinyl)-amino] carbonyl] sulfonyl] benzoate), **Round Up Pro;** Glyphosate, N- (Phosphonomethyl) Glycine in the form of its Isopropylamine Salt

Concentration of Active Ingredient in Field Use Mix: 5 lbs per 100 gallons per acre (Karmex), 3 oz. per 100 gallons per acre (Oust XP), 1% (Round Up Pro)

Diluting Substance: Water

Rate of Application: 100 gallons per acre

Total Amount Used: 630 Gallons total volume used for treatment

Method of Application: Boom sprayer for parking lots, hand sprayer for all other areas

Frequency of Application: Springtime and 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