



Entergy Nuclear Operations, Inc.
Palisades Nuclear Plant
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Paula Anderson
Licensing Manager

April 28, 2010

Facility Operating License
Appendix B, Section 5.4.1

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

SUBJECT: 2009 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 2009. 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, 2009, through December 31, 2009.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Paula Anderson", written over a horizontal line.

pka/bed

Attachment: 1. 2009 Annual Non-radiological Environmental Operating Report
2. Herbicide Treatments

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

ATTACHMENT 1
2009 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, 2009, through December 31, 2009.

The PNP operated for 7793 hours and produced a net total of 6,118,458 MWh during 2009. This represents 87.47% of the net demonstrated capacity of the design electric rating of 805 MWe.

2.0 ENVIRONMENTAL IMPACT EVALUATIONS

Three engineering change documents were evaluated per Entergy Nuclear Operations, Inc. (ENO) procedure, EN-EV-115, "Environmental Reviews and Evaluations," during 2009.

Engineering Change, EC 16634, "SOCA [Security Owner Controlled Area] Delay Barrier," EC 16635, "SOCA VBS [Vehicle Barrier System] System," and EC16636, "SOCA Detection Fence and System," required permitting from the Michigan Department of Environmental Quality, Permit No. 08-80-0062-P.

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 received the renewal of the PNP National Pollutant Discharge Elimination System (NPDES) Permit No. MI0001457. The effective date of the permit is November 1, 2009, and the expiration date is October 1, 2013.

4.0 UNUSUAL ENVIRONMENTAL EVENTS

No unusual environmental events occurred during 2009.

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 36 years, meteorological monitoring and other monitoring activities related to the cooling towers were not required during 2009.

Herbicides were not applied to the transmission line exit corridor in 2009. Rose Pest Solutions treated other areas of the property for vegetation management during 2009. The application of herbicides is documented in Attachment 2.

6.0 NON-ROUTINE REPORTS

During 2009, no non-routine reports were generated.

ATTACHMENT 2

HERBICIDE TREATMENTS

Company: Rose Pest Solutions
2714 S. 11th St. Suite B
Niles, Michigan 49120

Dates of Treatment: May 18, 2009, May 19, 2009, May 20, 2009

Commercial Names of Products in Solution: Karmex, Oust XP, Eraser

Chemical Names of Products:

Karmex DF - Diuron,

Oust XP - (Sulfometuron Methyl)(Methyl 2-[[[(4,6-dimethyl-1,2-pyrimidinyl)-amino] carbonyl] amino] sulfonyl] benzoate),

Eraser - 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 – 5 oz. per 100 gallons per acre (Oust XP)

1% (Eraser)

Diluting Substance: Water

Rate of Application: 100 gallons per acre

Total Amount Used: 995 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, around buildings, fence lines, walkways, parking lots, containment areas, substations, cooling towers, and protected area

Purpose of Treatment: Control of weed species