



**INDIANA
MICHIGAN
POWER**

**Indiana Michigan
Power Company**
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106
aep.com

May 22, 2008

AEP:NRC:2401-20

Docket Nos.: 50-315
50-316

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, D.C. 20555-0001

Donald C. Cook Nuclear Plant Units 1 and 2
**SUBMITTAL OF NON-COMPLIANCE NOTIFICATION FOR NATIONAL
POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT MI0005827**

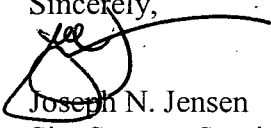
In a letter dated May 20, 2008, Indiana Michigan Power Company, the licensee for Donald C. Cook Nuclear Plant (CNP) Units 1 and 2, submitted a notification for exceeding NPDES Permit MI0005827 to the Michigan Department of Environmental Quality. On May 11, 2008, Total Suspended Solids (TSS) concentration on Outfall 00H, Turbine Room Sump Emergency Overflow, exceeded the maximum daily limit of 100 milligrams per liter (mg/l). The sample value was 102.6 mg/l at 0041 hours on May 11, 2008.

The period of non-compliance, between 0041 hours and 2050 hours on May 11, 2008, occurred when a pipe from the neutralization system began leaking and had to be removed from service. Subsequent resin bed regeneration waste was discharged directly to the turbine room sump. This condition resulted in the discharge of regeneration waste at a faster rate than normal through Outfall 00H. The concentration of TSS was just above the exceedence criteria and occurred over a period of approximately 20 hours. The pipe has been repaired and returned to service. There were no adverse environmental effects noted from this incident.

In accordance with Section 3.2, of Part II, of Appendix B of the Environmental Technical Specifications for CNP, a copy of the notification is included as an enclosure to this letter.

This letter contains no new commitments. Should you have any questions or concerns regarding this notification, please contact Jon H. Harner, Environmental Manager, at (269) 465-5901, extension 2102.

Sincerely,


Joseph N. Jensen
Site Support Services Vice President

JEN/rdw

Enclosure

COO1
MER

c: J. L. Caldwell – NRC Region III
K. D. Curry - AEP Ft. Wayne, w/o enclosure
J. T. King – MPSC, w/o enclosure
MDEQ – WHMD/RPS, w/o enclosure
NRC Resident Inspector
P. S. Tam – NRC Washington DC

ENCLOSURE TO AEP:NRC:2401-20

NON-COMPLIANCE NOTIFICATION FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PERMIT MI0005827



Indiana Michigan
Power Company
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106
aep.com

May 20, 2008

AEP:MDEQ:2008-01

Mr. Greg Danneffel, District Supervisor
Michigan Department of Environmental Quality
Surface Water Quality Division
7953 Adobe Road
Kalamazoo, MI 49009

Subject: Cook Nuclear Plant
National Pollutant Discharge Elimination System (NPDES) Permit MI0005827
Exceedence

Dear Mr. Danneffel:

This notification is provided as required by Part II, Section C.6.a of NPDES Permit MI0005827. The Total Suspended Solids (TSS) concentration on Outfall 00H, Turbine Room Sump Emergency Overflow, exceeded the maximum daily limit of 100 milligrams per liter (mg/l).

Per the requirements of Cook Nuclear Plant's NPDES permit, two consecutive samples are taken whenever sampling is performed. The first of the two samples taken on May 11, 2008, at 0040 hours, indicated a TSS concentration of 99.25 mg/l, which was below the maximum daily limit. However, the TSS concentration in the second sample, taken at 0041 hours, was 102.6 mg/l. The actual analysis was completed on May 15, 2008.

The period of non-compliance, between 0041 hours and 2050 hours on May 11, 2008, occurred when a pipe from the neutralization system began leaking and had to be removed from service. Subsequent resin bed regeneration waste was discharged directly to the turbine room sump. This condition resulted in the discharge of regeneration waste at a faster rate than normal through Outfall 00H. The concentration of TSS was just above the exceedence criteria and occurred over a period of approximately 20 hours.

The pipe has been repaired and returned to service. There were no adverse environmental effects noted from this incident.

Should you have any questions, please contact me at (269) 465-5901, extension 2102.

Sincerely,

A handwritten signature in cursive script that reads 'Jon H. Harner'.

Jon H. Harner
Environmental Manager

BKZ/jen

Michigan Department of Environmental Quality
Mr. Greg Danneffel
AEP:MDEQ:2008-01
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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Jon H. Harner
Environmental Manager