

Indiana Michigan
Power Company
500 Circle Drive
Buchanan, MI 49107 1373



November 26, 2002

AEP:NRC:2401-03
10 CFR 50.4

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
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND
GROUNDWATER DISCHARGE AUTHORIZATION SPILL NOTIFICATION

Indiana Michigan Power Company is the holder of National Pollutant Discharge Elimination System (NPDES) permit MI0005827 and Groundwater Discharge Authorization (GDA) M00988 for the Donald C. Cook Nuclear Plant. Spills are required to be reported to the Nuclear Regulatory Commission (NRC) by Appendix B (Environmental Technical Specifications) to Facility Operating Licenses DPR-58 and DPR-74, Part II, Section 3.2.

In a letter dated November 26, 2002, the Michigan Department of Environmental Quality (MDEQ) was notified that a leak of approximately two gallons per minute that was about 12 percent sodium hypochlorite by volume discharged into the forebay for approximately nine hours. These notifications were provided to the MDEQ per Part II, Section C.7 of the NPDES Permit and Part II, Section A.7 of the GDA. Accordingly, a copy of this report is provided to the NRC as the attachment to this letter.

This letter contains no new commitments. Should you have any questions or concerns regarding this notification, please contact John P. Carlson, Environmental Manager, at (269) 465-5901, extension 1153.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. A. Greenlee', with a large, stylized flourish extending to the right.

S. A. Greenlee
Director of Nuclear Technical Services

KS/rdw

Attachments

TE23

- c: K. D. Curry, Ft. Wayne AEP, w/o enclosures/attachments
- J. E. Dyer, NRC Region III
- MDEQ - DW & RPD, w/o enclosures/attachments
- NRC Resident Inspector
- J. F. Stang, Jr., NRC Washington, DC
- R. Whale, MPSC, w/o enclosures/attachments

bc: A. C. Bakken III
M. J. Finissi, w/enclosures/attachments
S. A. Greenlee
D. W. Jenkins, w/o enclosures/attachments
J. A. Kobyra, w/o enclosures/attachments
B. A. McIntyre, w/o enclosures/attachments
J. E. Newmiller
J. E. Pollock
D. J. Poupard
M. K. Scarpello, w/o enclosures/attachments
T. K. Woods, w/o enclosures/attachments

ATTACHMENT 1 TO AEP:NRC:2401-03

NPDES Notification to

Michigan Department of Environmental Quality

Indiana Michigan
Power Company
Cook Nuclear Plant
One Cook Plant
Bridgman, MI 49103
616 465 5901



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

November 26, 2002

Dear Mr. Danneffel:

Subject: Donald C. Cook Nuclear Plant
NPDES Permit No. MI 0005827
Groundwater Discharge Authorization M 00988

This notification is made pursuant to Cook Nuclear Plant's NPDES Permit MI 0005827, Part II. Section C. 7, Spill Notification and Groundwater Discharge Authorization M 00988, Part II. Section A. 7, Spill Notification.

On November 16, 2002 at approximately 00:15, a one half inch diameter Teflon tubing supply line to the service water chlorination pump failed during continuous chlorination operations. A leak of approximately two gallons per minute of ~12% sodium hypochlorite discharged into the forebay, where it was diluted and carried through the circulating water system and finally discharged into Lake Michigan through Outfall 001 for approximately 9 hours. The discharge flow from the Unit One circulating water system (Outfall 001) is approximately 690,000 gallons per minute. The Total Residual Oxidant (TRO) concentration at Outfall 001 ranged from 0.282 mg/l to 0.386 mg/l during the 9 hour period. Since TRO is measured at the beginning of the discharge tunnel, we expect a significant reduction in the TRO at the end pipe due to biofouling on the walls of the discharge pipe. The discharge pipe is more than 1000 feet long. Approximately 1080 gallons of the ~12% sodium hypochlorite solution was discharged.

The leak occurred from approximately 00:15 to 09:15 on November 16, 2002. Plant personnel discovered the leak on a routine chlorine pump room tour at approximately 09:00 and responded immediately to secure the sodium hypochlorite tank. The discharge exceeded the NPDES continuous permit limit of 0.038 mg/l TRO. This spill did not pose a human health threat as the concentration of sodium hypochlorite was less than normal drinking water levels. The high velocity discharge, the large dilution from the circulating water system, the sandy bottom and open lake provided adequate dilution and absorbance to prevent any immediate or long-term environmental damage.

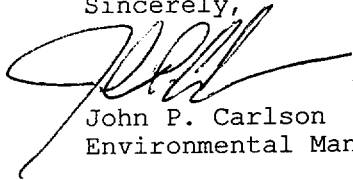
Notifications were made to the National Response Center on November 16, 2002 at 11:50 and the Pollution Emergency Alert System (PEAS) at 12:05. A follow-up call was placed to the Kalamazoo District Office on November 18, 2002.

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NPDES Permit No. MI 0005827

We have taken actions to repair the supply tubing and are investigating preventative actions that could minimize future failures of this tubing. All sodium hypochlorite tubing is being checked to ensure adequate integrity. Continuous chlorination has been suspended until an alarm is energized on the continuous total residual oxidant monitor.

Should you have any questions, please contact me at (616) 465-5901 ext. 1153.

Sincerely,



John P. Carlson
Environmental Manager

c: Mr. Marcus Tironi, MDEQ - Kalamazoo
USNRC per Appendix B. T.S.

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Mr. Greg Danneffel

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NPDES Permit No. MI 0005827

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.



J. E. Pollock
Site Vice President