



**INDIANA
MICHIGAN
POWER**

A unit of American Electric Power

Indiana Michigan Power
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
AEP.com

February 28, 2006

AEP:NRC:2401-15

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 February 28, 2006, Indiana Michigan Power Company, the licensee for Donald C. Cook Nuclear Plant (CNP) Units 1 and 2, submitted a non-compliance notification for NPDES Permit MI0005827 to the Michigan Department of Environmental Quality. On February 23, 2006, at 1740 hours, the concentration of Total Residual Oxidant (TRO) discharged via Outfall 001 to Lake Michigan was 39 $\mu\text{g}/\text{l}$. This concentration exceeds the continuous discharge limit for TRO of 38 $\mu\text{g}/\text{l}$.

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 being provided to the Nuclear Regulatory Commission as an 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,

Joseph N. Jensen
Site Vice President

JEN/jn

attachment

C001

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

ATTACHMENT TO AEP:NRC:2401-15

NON-COMPLIANCE NOTIFICATION FOR
NPDES PERMIT MI0005827



Indiana Michigan
Power Company
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106

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

February 28, 2006

Dear Mr. Danneffel:

Re: Cook Nuclear Plant
NPDES Permit MI0005827

This notification is provided as required by Part II, Section C.6.a of NPDES Permit MI0005827.

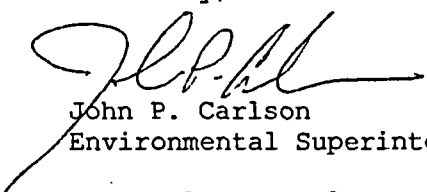
On February 23, 2006 at 1740 hours, the concentration of Total Residual Oxidant (TRO) discharged via Outfall 001 to Lake Michigan was 39 $\mu\text{g}/\text{l}$. This concentration exceeds the continuous discharge limit for TRO of 38 $\mu\text{g}/\text{l}$.

On February 23, 2006 at 1732, a Chemical Technician responded to a Control Room alarm from the Orion 1770 Chlorine Analyzer alarm for Outfall 001. The initial TRO value was 26 $\mu\text{g}/\text{l}$. The chemical delivery pump stroke was reduced however, the Outfall 001 TRO continued to rise and subsequently exceeded the permit limit at 1740. The chemical delivery pumps were then secured, and further monitoring of the discharge indicated that the discharge concentration reached a maximum TRO of 45 $\mu\text{g}/\text{l}$ at 1745 hours and fell below the permit limit of 38 $\mu\text{g}/\text{l}$ TRO at 1750. A "fresh" sodium hypochlorite delivery that occurred just prior to the event may have changed the concentration in the feed tank and caused the subsequent event.

The period of noncompliance occurred for ten minutes on February 23, 2006 from 1740 to 1750. Our evaluation of the situation will result in changes to operating procedures that will prevent recurrence of this noncompliance. The concentration of Total Residual Oxidant was very low and occurred over a very short time period and created no adverse environmental effects.

Should you have any questions please contact me at (269) 465-5901 ext. 1153.

Sincerely,



John P. Carlson
Environmental Superintendent

c: Nuclear Regulatory Commission

Mr. Greg Danneffel/Total Residual Oxidant Exceedence

February 28, 2006

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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.



John P. Carlson
Environmental Manager