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

AEP-NRC-2011-74

December 15, 2011

Docket Nos.: 50-315 50-316

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

Donald C. Cook Nuclear Plant Unit 1 and Unit 2 SUBMITTAL OF NON-COMPLIANCE NOTIFICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT MI0005827

In a letter dated November 16, 2011, Indiana Michigan Power Company, the licensee for Donald C. Cook Nuclear Plant (CNP) Unit 2, submitted a non-compliance notification for National Pollutant Discharge Elimination System Permit MI0005827 to the Michigan Department Environmental Quality. On November 11, 2011, the daily maximum concentration of Total Residual Oxidant (TRO) discharged via Outfall 002 to Lake Michigan was 63 $\mu g/l$, which exceeded the continuous discharge limit for TRO of 38 $\mu g/l$. On November 11, at 1510 hours, a Chemical Technician responded to a Control Room alarm from the Orion 1770 Chlorine Analyzer for Outfall 002. The initial TRO value was 40 $\mu g/l$, which was verified by a second analyzer. A second sample reading taken at 1545 hours was 63 $\mu g/l$. The chemical delivery pumps were secured, and further monitoring indicated that the discharge concentration fell below the permit limit of 38 $\mu g/l$ TRO at 1555 hours.

In accordance with Section 5.4.2 of Part II of Appendix B of the Environmental Technical Specifications for CNP, a copy of the notification is included as an attachment to this letter.

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

Sincerel

Michael K. Scarpello Regulatory Affairs Manager

JEN/jmr

Enclosure

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c: J. T. King – MPSC, w/o enclosure S. M. Krawec - AEP Ft. Wayne, w/o enclosure MDEQ – WHMD/RPS, w/o enclosure NRC Resident Inspector C. D. Pederson – NRC Region III P. S. Tam – NRC Washington DC

ENCLOSURE TO AEP-NRC-2011-74

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



indiana Michigan Power

A unit of American Electric Power

November 16, 2011

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

AEP-MDEQ-2011-2

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

Dear Mr. Jordon:

Re: Cook Nuclear Plant NPDES Permit MI0005827

This notification is made pursuant to the Donald C. Cook Nuclear Plant (CNP) NPDES Permit, MI 0005827, Part II, Section C.6, "Noncompliance Notification."

On November 11, 2011, the daily maximum concentration of Total Residual Oxidant (TRO) discharged via Outfall 002 to Lake Michigan was 63 µg/l. This concentration exceeds the continuous discharge limit for TRO of 38 µg/l.

On November 11, 2011, at 1510 hours, a Chemical Technician responded to a Control Room alarm from the Orion 1770 Chlorine Analyzer for Outfall 002. The initial TRO value was 40 μ g/l, which was verified by a second analyzer. A second sample reading taken at 1545 hours was 63 μ g/l. The chemical delivery pumps were secured, and further monitoring indicated that the discharge concentration fell below the permit limit of 38 μ g/l TRO at 1555 hours.

The period of noncompliance occurred from 1510 hours to 1555 hours. The cause of the exceedence appears to be a malfunctioning sample pump. The low sample flow produced artifacts from the intermittent chlorination period that was completed 40 minutes prior to the alarm. The concentration of TRO created no adverse environmental effects.

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

Sincerely,

Jell Fanson for

Jon H. Harner Environmental Manager

JEN/jmr

Michigan Department of Environmental Quality Mr. Kameron Jordon AEP-MDEQ-2011-2 Page 2

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.

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Jon H. Harner Environmental Manager