



A unit of American Electric Power

Indiana Michigan Power
One Cook Place
Bridgman, MI 49106
IndianaMichiganPower.com

August 21, 2012

AEP-NRC-2012-68
10 CFR 50.4

Docket Nos.: 50-315
50-316

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

Donald C. Cook Nuclear Plant Units 1 & 2
NOTIFICATION OF NONCOMPLIANCE FOR
INORGANIC MERCURY CONCENTRATION

In a letter dated August 7, 2012, Indiana Michigan Power Company (I&M), the licensee for Donald C. Cook Nuclear Plant (CNP) Units 1 and 2, submitted a notification of noncompliance for inorganic mercury concentration at monitoring well 1A to the Michigan Department of Environmental Quality. On August 1, 2012, the inorganic mercury concentration was confirmed to be 1.75 ng/l, which exceeds the permit limit of 1.3 ng/l.

A copy of the notification is provided, as an enclosure to this letter, in accordance with CNPs Environmental Technical Specification, Part II- Nonradiological Environmental Protection Plan, Section 5.4.2.

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

Sincerely,

Michael K. Scarpello
Regulatory Affairs Manager

Enclosure:

Letter from J. H. Harner, Indiana Michigan Power Company, to K. Jordan, Michigan Department of Environmental Quality, "American Electric Power Company, Donald C. Cook Nuclear Plant, Groundwater Permit No GW 1810102," dated August 7, 2012.

KMH/jmr

IE23
NRR

- c: C. A. Casto, NRC Region III
- J. T. King - MPSC
- S. M. Krawec – AEP Ft Wayne
- MDEQ- RMD/RPS
- NRC Resident Inspector
- P. S. Tam, NRC Washington DC

ENCLOSURE TO AEP-NRC-2012-68

LETTER DATED AUGUST 7, 2012

NON COMPLIANCE FOR INORGANIC MERCURY CONCENTRATION



**INDIANA
MICHIGAN
POWER**

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

August 7, 2012

Re: American Electric Power Company
Donald C. Cook Nuclear Plant
Groundwater Permit No. GW1810102

Dear Mr. Jordan:

This notification is made pursuant to Cook Nuclear Plant's Groundwater Permit GW 1810102, Part I.11.(b), Compliance Requirements.

On August 1, 2012, we became aware of a noncompliance for inorganic mercury concentration at monitoring well 1A. The inorganic mercury concentration was confirmed to be 1.75 ng/l (0.00175 ug/l), which exceeds the permit limit of 1.3 ng/l (0.0013 ug/l). Well 1A is located SE of the plant's rapid infiltration basin, and is the closest monitoring well to this discharge point. Upgradient well inorganic mercury concentrations ranged from 1.4 to 2.2 ng/l (0.0014 ug/l to 0.0022 ug/l), which likely contributes to the noncompliance issue. Other downgradient wells in our program are within permit limits for inorganic mercury.

As required by Part I.11.c), we have scheduled a resample of this monitoring well within the next 14 days (due date August 14, 2012).

As required by Part I.11.d), we will submit a written report to the Kalamazoo Office within 60 days (due date Sept 29, 2012).

Please contact me at telephone (269) 465-5901 ext. 2102 if you have any questions regarding this information.

Sincerely,

Jon H. Harner
Environmental Manager
Donald C. Cook Nuclear Plant

c: Mr. Steve Norton, MDEQ - Kalamazoo
USNRC per Appendix B. T.S.