

August 8, 2019

AEP-NRC-2019-45  
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 and 2  
NOTIFICATION OF GW1810102 NON-COMPLIANCE FOR MERCURY

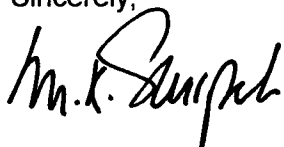
Indiana Michigan Power Company, the licensee for Donald C. Cook Nuclear Plant (CNP) Units 1 and 2, is providing notification to the Nuclear Regulatory Commission of a Groundwater Permit GW1810102 non-compliance for mercury, in accordance with CNP's Environmental Protection Plan, Section 5.4.2, "Non-routine Reports."

On August 2, 2019, CNP was notified that Monitoring Well 1A was confirmed to be 4.1 ng/l for mercury, which exceeds the permit limit of 1.3 ng/l (0.0013 ug/l). A 60 day follow-up letter, as required by Groundwater Permit GW1810102, will provide re-sampling results, an evaluation of the cause of event, and CNP's corrective actions.

The notification to the Michigan Department of Environmental, Great Lakes, and Energy is provided, as an enclosure to this letter.

This letter contains no new or revised commitments. Should you have any questions please contact Michael K. McCarthy, Chemistry Manager, at (269) 465-5901, extension 2810.

Sincerely,



Michael K. Scarpello  
Regulatory Affairs Director

Enclosure: Letter from M. K. McCarthy, Indiana Michigan Power Company, to J. Klang, Michigan Department of Environmental, Great Lakes, and Energy, "American Electric Power, Donald C. Cook Nuclear Plant, Groundwater Permit GW1810102," dated August 8, 2019.

KMH/ml

IE23  
NRR

c: R. J. Ancona – MPSC  
D. Kopec  
NRC Resident Inspector, w/o enclosure  
D. J. Roberts – NRC Region III  
A.J. Williamson - AEP Ft. Wayne

**ENCLOSURE TO AEP-NRC-2019-45**

**Letter from M. K. McCarthy, Indiana Michigan Power Company, to J. Klang, Michigan Department of Environmental, Great Lakes, and Energy, "American Electric Power, Donald C. Cook Nuclear Plant, Groundwater Permit GW1810102," dated August 8, 2019.**



*A unit of American Electric Power*

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

Ms Jen Klang  
Michigan Department of Environment, Great Lakes and Energy  
7953 Adobe Road  
Kalamazoo, MI 49009-5026

August 8, 2019

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

Dear Ms. Klang:

This notification is made pursuant to Cook Nuclear Plant's Groundwater Permit GW1810102, Part I.11.b, Compliance Requirements.

On August 2, 2019, we became aware of a noncompliance for mercury concentration at monitoring well 1A. The mercury concentration was confirmed to be 4.1 ng/l, which exceeds the permit limit of 1.3 ng/l (0.0013 ug/l). Well 1A is located southeast of the plant's rapid infiltration basin, and is the closest monitoring well to this discharge point. Upgradient well mercury concentrations ranged from 0.8 to 1.3 ng/l, which likely contributes to the noncompliance issue. Other downgradient wells in our program are within permit limits for 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 16, 2019).

As required by Part I.11.d, we will submit a written report to the Kalamazoo Office within 60 days (due date October 1, 2019).

If you have any questions, please contact me at (269) 465-5901, ext. 2810.

Sincerely,

A handwritten signature in black ink, appearing to read "McCarthy".

Michael K McCarthy  
Chemistry Manager

c: MIWATERS