



A unit of American Electric Power

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

August 26, 2014

AEP-NRC-2014-69
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 GROUNDWATER PERMIT EXCEEDANCE
FOR SODIUM AND CHLORIDE

In a letter dated August 5, 2014, 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 Sodium and Chloride concentrations at Monitoring Well 19, for Groundwater Permit GW1810102, to the Michigan Department of Environmental Quality (MDEQ). On July 31, 2014, the Sodium concentration was confirmed to be 482 mg/l, which exceeds the permit limit of 120 mg/l. The Chloride concentration was confirmed to be 821 mg/l, which exceeds the permit limit of 250 mg/l. This event is still being evaluated. I&M resampled this monitoring well on August 1, 2014 and submitted the sample for lab analysis. I&M will submit a follow-up report to the MDEQ within 60 days with the results of our evaluation. This report will subsequently be provided to the Nuclear Regulatory Commission.

A copy of the notification is provided, as an enclosure to this letter, in accordance with CNP's 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 J. Sanders, Michigan Department of Environmental Quality, "American Electric Power Company, Donald C. Cook Nuclear Plant, Groundwater Permit No. GW1810102" dated August 5, 2014.

KMH/dmb

COOL
MRK

c: M. L. Chawla, NRC Washington DC
J. T. King - MPSC
MDEQ- RMD/RPS
NRC Resident Inspector
C. D. Pederson – NRC Region III
A. J. Williamson – AEP Ft Wayne

ENCLOSURE TO AEP-NRC-2014-69

Letter from J. H. Harner, Indiana Michigan Power Company, to J. Sanders, Michigan Department of Environmental Quality, "American Electric Power Company, Donald C. Cook Nuclear Plant, Groundwater Permit No. GW1810102" dated August 5, 2014.



**INDIANA
MICHIGAN
POWER®**

A unit of American Electric Power

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

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

August 5, 2014

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

Dear Mr. Sanders:

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

On July 31, 2014 we became aware of a noncompliance for Sodium and Chloride concentrations at monitoring well 19. The Chloride concentration was confirmed to be 821 mg/l, which exceeds the permit limit of 250 mg/l. The Sodium concentration was confirmed to be 482 mg/l, which exceeds the permit limit of 120 mg/l. Well 19 is located approximately 1200 feet North of the plant's rapid infiltration basin. Upgradient wells and other monitoring wells are within permit limits from this sampling period.

As required by Part I.11.c), we have scheduled a resample of this monitoring well within the next 14 days (due date August 13, 2014).

As required by Part I.11.d), we will submit a written report to the Kalamazoo Office within 60 days (due date Sept 28, 2014).

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: Ms. Christine Bauer, MDEQ - Kalamazoo
USNRC per Appendix B. T.S.

Mr. Jarod Sanders
Monitoring well notification
Page 2
August 5, 2014

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.H. Harner
Environmental Manager