INDIANA MICHIGAN POWER
A unit of American Electric Power

Indiana Michigan Power
Cook Nuclear Plant
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Bridgman, MI 49106
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November 17, 2021

AEP-NRC-2021-66
10 CFR 50.36a

Docket Nos.: 50-315
50-316

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

Donald C. Cook Nuclear Plant Units 1 and 2
2020 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT CORRECTION

References:

1. Letter from Michael K. Scarpello, Indiana Michigan Power Company (I&M), to U. S. Nuclear Regulatory Commission (NRC), "2020 Annual Radioactive Effluent Release Report," dated April 28, 2021, Agencywide Documents Access and Management System Accession (ADAMS) No. ML21118B086.

Indiana Michigan Power Company, the licensee for Donald C. Cook Nuclear Plant Units 1 and 2, is providing a correction to the 2020 Annual Radioactive Effluent Release Report (Reference 1), to include the "C14 (Annual) Curies" value that was inadvertently omitted, in the Enclosure to this letter. This ommission, located on page four (4) of the report, is corrected by replacement of the previously submitted page four (4) in its entirety with the Enclosure to this letter.

This letter contains no new or modified regulatory commitments. Should you have any questions, please contact me at (269) 466-2649.

Sincerely,

Michael K. Scarpello
Regulatory Affairs Director

SJM/mll

Enclosure: Donald C. Cook Nuclear Plant Units 1 and 2 - 2020 Annual Radioactive Effluent Release Report Correction

c: R. J. Ancona – MPSC
EGLE – RMD/RPS
J. B. Giessner – NRC, Region III
NRC Resident Inspector
R. M. Sistevaris – AEP Ft. Wayne, w/o enclosures
J. E. Walcutt – AEP Ft. Wayne, w/o enclosures
S. P. Wall – Washington, D.C.
A. J. Williamson – AEP Ft. Wayne, w/o enclosures

ENCLOSURE to AEP-NRC-2021-66

DONALD C. COOK NUCLEAR PLANT UNITS 1 AND 2
2020 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT CORRECTION

The correction to the Donald C. Cook Nuclear Plant Units 1 and 2, 2020 Annual Radioactive Effluent Release Report, includes the "C14 (Annual) Curies" value. This page four (4) of the report, replaces the previously submitted page four (4) in its entirety.

Dose (mrem)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
I & P	1.73E-02	2.86E-02	3.95E-02	1.64E-02
Total Body Air	7.70E-05	2.60E-04	6.90E-04	2.00E-04
Skin	1.20E-04	4.10E-04	1.10E-03	3.30E-04
Liquid TB	3.84E-03	2.95E-02	4.08E-02	1.46E-02
Liquid Organ	3.84E-03	2.95E-02	4.08E-02	1.47E-02
Direct Radiation	0	0	0	0
Quarterly Dose Total	2.52E-02	8.83E-02	1.23E-01	4.62E-02
Sum of Quarter Doses				2.83E-01
C14 (Annual) Curies				20.16
C14 (Annual) Dose				2.33E+00
Grand Total Dose (Total Body or any other Organ) mrem				2.61E+00
Annual Dose Limit (mrem)				25
Percent of limit				1.05E+01

The following data reflects a comparison between 2019 annual dose data and 2020 annual dose data. This indicates that 2020 annual dose was 'typical' in regards to radioactive effluents. The table is presented as follows:

	Annual Dose (mrem)	% of limit
2019	2.37E+00	9.49
2020	2.61E+00	10.5

VI. RADIATION MONITORS INOPERABLE GREATER THAN 30 DAYS

The Radiation Monitor System (RMS) has undergone an extensive replacement project to upgrade and modernize the equipment to support the expected operational lives of the two Cook Plant units. Three effluent monitors (and six area monitors for completeness) were inoperable entering 2020, with the Unit 1 Vent Stack 1-VRS-1500 and Unit 2 ESW monitors 2-WRA-714/ 2-WRA-718 being all out for more than 30 days. The appropriate compensatory sampling actions were taken throughout the year as releases on these pathways continued. The monitors were being upgraded and modernized, and this inoperable time period > 30days was planned for/ expected due to having to install all the hardware, wiring backbone, network, and displays. The RMS replacement project did significant work in 2020, with the table below providing the details on when work was started (starting the 30 day clock) and when it was returned to service. All were greater than 30 days and all had appropriate compensatory sampling actions or surveys performed throughout the duration. All effluent releases complied with ODCM requirements. The list includes some area radiation monitors which are not involved with effluent pathways, but are included for completeness. RMS Project work continued into 2020 and was completed on April 14, 2020, concluding the RMS Replacement Project. The table lists all monitors replaced and their times of inoperability.