

January 19, 2018

AEP-NRC-2018-04
10 CFR 50.90

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, Unit 1 and Unit 2
**SUPPLEMENT TO LICENSE AMENDMENT REQUEST REGARDING REVISION TO THE
EMERGENCY PLAN FOR TECHNICAL SUPPORT CENTER RELOCATION**

Reference:

1. Letter from Q. S. Lies, Indiana Michigan Power Company, to U. S. Nuclear Regulatory Commission, "Donald C. Cook Nuclear Plant Unit 1 and Unit 2, License Amendment Request Regarding Revision to the Emergency Plan For Technical Support Center Relocation," dated November 7, 2017, Agencywide Documents Access and Management System Accession No. ML17317A454.

By Reference 1, Indiana Michigan Power Company (I&M), the licensee for Donald C. Cook Nuclear Plant (CNP) Unit 1 and Unit 2, submitted a request for Nuclear Regulatory Commission (NRC) review and approval of a revision to the CNP Emergency Plan for Unit 1 and Unit 2. The proposed revision would move the Technical Support Center (TSC) to a different location in a new facility. When Reference 1 was submitted to the NRC, it did not include the dose calculation that demonstrates the habitability of the new TSC. Reference 1 stated that upon I&M approval of the dose calculation, that it would be submitted to the NRC as a supplement to Reference 1. This letter submits the new TSC dose calculation as a supplement to Reference 1.

By Enclosure 2 to Reference 1, I&M previously provided key input assumptions for the new TSC dose calculation. One of these input assumptions was that the TSC ventilation would be placed in the emergency mode of operation within 20 minutes of the start of a loss of coolant accident. The time to place the TSC ventilation in emergency mode was moved from being a key input assumption, of 20 minutes, to being a limitation, of 53 minutes, of the calculation and is discussed in the Introduction and in Section 6 of Enclosure 2. The resulting dose that would be received by any TSC occupant would remain below the limit of 5 rem in 30 days.

Enclosure 1 to this letter provides an affirmation statement pertaining to the information contained herein. Enclosure 2 provides the radiological analysis for the new TSC.

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There are no new or revised regulatory commitments made in this letter. Should you have any questions, please contact Mr. Michael K. Scarpello, Regulatory Affairs Manager, at (269) 466-2649.

Sincerely,



Q. Shane Lies
Site Vice President

HLL/ml

Enclosures:

1. Affirmation
2. Technical Support Center Loss of Coolant Accident Radiological Analysis

c: R. J. Ancona, MPSC
MDEQ – RMD/RPS
NRC Resident Inspector
J. K. Rankin, NRC Washington DC
K. S. West, NRC Region III
A. J. Williamson – AEP Ft. Wayne, w/o enclosures

Enclosure 1 to AEP-NRC-2018-04

AFFIRMATION

I, Q. Shane Lies, being duly sworn, state that I am the Site Vice President of Indiana Michigan Power Company (I&M), that I am authorized to sign and file this request with the U. S. Nuclear Regulatory Commission on behalf of I&M, and that the statements made and the matters set forth herein pertaining to I&M are true and correct to the best of my knowledge, information, and belief.

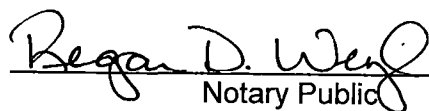
Indiana Michigan Power Company



Q. Shane Lies
Site Vice President

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 19 DAY OF January 2018


Notary Public

My Commission Expires 01/21/2018