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

April 3, 2017

AEP-NRC-2017-22
10 CFR 50.55a

Docket No.: 50-316

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

Donald C. Cook Nuclear Plant Unit 2
Form OAR-1, Owner's Activity Report

This letter provides a copy of Form OAR-1, Owner's Activity Report, for inservice inspection activities performed at Donald C. Cook Nuclear Plant Unit 2 through the completion of the Unit 2 Cycle 23 Refueling Outage. This report meets the requirements of the American Society of Mechanical Engineers (ASME) Code Case N-532-5, "Repair/Replacement Activity Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission Section XI, Division 1." This code case is used as an alternative to the requirements of the ASME Boiler and Pressure Vessel Code, Section XI, Article IWA-6000, as approved by Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1," Revision 17, for the current inspection interval.

The Authorized Code Inspection Company is OneCIS Insurance Co., of Lynn, Massachusetts. The Authorized Nuclear Inspector is Timothy H. Merchant.

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

Sincerely,

Mark Lloyd
Engineering Vice President

MBE/ml

Enclosure: Form OAR-1, Owner's Activity Report for Donald C. Cook Nuclear Plant Unit 2 Cycle 23 Refueling Outage

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NRR

c: R. J. Ancona – MPSC, w/o enclosure
A. W. Dietrich – NRC Washington DC
MDEQ – RMD/RPS, w/o enclosure
NRC Resident Inspector
C. D. Pederson – NRC Region III
A. J. Williamson – AEP Ft. Wayne, w/o enclosure

ENCLOSURE TO AEP-NRC-2017-22

FORM OAR-1, OWNER'S ACTIVITY REPORT FOR DONALD C. COOK NUCLEAR PLANT
UNIT 2 CYCLE 23 REFUELING OUTAGE

D. C. Cook Nuclear Unit 2 Form OAR-1 Owner's Activity Report

Report Number	<u>2-2017-4-2-03</u>		
Plant	<u>Donald C Cook Nuclear Plant, One Cook Place, Bridgman, Michigan 49106</u> (Name and Address of Plant)		
Unit No.	<u>2</u>	Commercial Service Date	<u>7/1/1978</u>
	(if applicable)	Refueling Outage No.	<u>U2C23</u>
Current Inspection Interval	<u>4th for Components and Supports (C&S) and 2nd for Containment ISI (CISI) Program</u> (1st, 2nd, 3rd, 4th, other)		
Current Inspection Period	<u>2nd for C&S and 2nd for CISI</u> (1st, 2nd, 3rd)		
Edition and Addenda of Section XI applicable to the inspection plans	<u>2004 Edition/No Addenda</u>		
Date and Revision of inspection plans	<u>12/18/2016 Rev 8 for C&S; and 7/20/2016 Revision 4 for CISI</u>		
Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans	<u>Edition and Addenda are the same as the Inspection Plans</u>		
Code Case used:	<u>N-751, for C&S and N-649 for CISI</u> (If applicable)		

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of U2C23 conform to the requirements of Section XI. (Refueling Outage Number)

Signed *Heathon Ellison*, ISI Program Owner Date 4-3-2017
Owners or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by One CIS Insurance Co. of Lynn, MA have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Timothy Merchant Commissions NB 14382 "I"
Inspector's Signature National Board Number, and Endorsement

Date 4.3.2017

D. C. Cook Nuclear Unit 2

Table 1

**Items with flaws or relevant conditions that
required evaluation for continued service**

Examination Category	Item Number	Item Description	Evaluation Description
N/A	N/A	Through wall leak at weld downstream of 2-QFI-420.	Through wall leakage occurred at the flange to pipe weld joint as a result of stress corrosion cracking driven by a large applied stress as a result of poor initial fit-up of the flange connection. AR 2015-10993

D. C. Cook Nuclear Unit 2
Table 2
Abstract of repair/replacement activities
required for continued service

Code Class	Item Description	Description of Work	Date Complete	Repair/Replacement Plan Number
3	Through wall leak at weld downstream of 2-QFI-420.	Replace fittings and piping via welding.	9/2/2015	55470897-07
1	Reactor Vessel Internal Baffle-Former bolting found degraded during initial visual inspection	Replace flawed bolting found by examination.	12/12/2016	55488446-01 & 02