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

July 31, 2018

AEP-NRC-2018-47  
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 24 Refueling Outage. This report meets the requirements of the American Society of Mechanical Engineers (ASME) Code Case N-532-5, "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, 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 18, 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 Director, at (269) 466-2649.

Sincerely,

Mark Lloyd  
Engineering Vice President

KMH/ml

Enclosure: Form OAR-1, Owner's Activity Report for Donald C. Cook Nuclear Plant Unit 2  
Cycle 24 Refueling Outage

A047  
NRR

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

ENCLOSURE TO AEP-NRC-2018-47

FORM OAR-1, OWNER'S ACTIVITY REPORT FOR DONALD C. COOK NUCLEAR PLANT  
UNIT 2 CYCLE 24 REFUELING OUTAGE

**D. C. Cook Nuclear Unit 2**  
**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number 2-2018-4-3-01

Plant Donald C. Cook Nuclear Plant, One Cook Place, Bridgman, Michigan 49106

Unit No. 2 Commercial service date 7/1/1978 Refueling outage no. U2C24  
(if applicable)

Current inspection interval 4th for Components and Supports (C&S) and 2nd for Containment ISI (CISI) Program  
(1st, 2nd, 3rd, 4th, other)

Current inspection period 3rd for C&S and 3rd for CISI  
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2004 Edition/No Addenda

Date and revision of inspection plans 12/18/2016 Revision 8 for C&S; and 12/29/2017 Revision 6 for CISI

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans \_\_\_\_\_  
Edition and Addenda are the same as the Inspection Plans

Code Cases used for inspection and evaluation: N-566-2 and N-722-1 for C&S  
(If applicable, including cases modified by Case N-532 and later revisions)

**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 U2C24 conform to the requirements of Section XI. (refueling outage number)

Signed Walter Chatterton, ISI Program Owner Date 7/12/2018  
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 OneCIS 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 14388 "I"  
Inspector's Signature National Board Number and Endorsement

Date 7-12-2018

**D. C. Cook Nuclear Unit 2**

**Table 1**

**Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service**

Examination Category and Item Number	Item Description	Evaluation Description
None	None	None

**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 Completed	Repair/Replacement Plan Number
1	2-GRC-R-500, Reactor Coolant System 4 Inch Rigid Pipe Support	Replace pipe clamp on support found with missing fastener. Reference AR 2018-2789.	3/29/2018	55515128-01
1	Examination Category: B-N-3, Item No.: B13.70 Parts Examined: Core Support Structure - 2-OME-1, Baffle Former Plate Bolting	213 core baffle former bolts were removed, new counter bores were milled and new bolts were installed in 210 bolt locations.	4/11/2018	55498405-17
3	Turbine driven auxiliary feedwater pump (2-PP-4) discharge pipe on ISO 2-FW-20	Replace portion of piping with external corrosion found below design limits. Reference AR 2016-13865.	4/13/2018	55503764-06
3	West motor driven auxiliary feedwater pump (2-PP-3W) discharge pipe on ISO 2-FW-32	Replace portion of piping with external corrosion found below design limits. Reference AR 2016-13865.	4/1/2018	55503764-02