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

February 23, 2018

AEP-NRC-2018-14  
10 CFR 50.55a

Docket No.: 50-315

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

Donald C. Cook Nuclear Plant Unit 1  
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 1 through the completion of the Unit 1 Cycle 28 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 1 Cycle 28 Refueling Outage

AD 47  
NRR

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

ENCLOSURE TO AEP-NRC-2018-14

FORM OAR-1, OWNER'S ACTIVITY REPORT FOR DONALD C. COOK NUCLEAR PLANT  
UNIT 1 CYCLE 28 REFUELING OUTAGE

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

Report Number 1-2017-4-3-01

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

Unit No. 1 Commercial service date 8/23/1975 Refueling outage no. U1C28  
(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 Rev 8 for C&S; and 1/27/2017 Revision 5 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, N-649 for CISI  
(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 of U1C28 conform to the requirements of Section XI. (refueling outage number)

Signed Walter J. Chatterton, ISI Program Owner Date 2/12/2018  
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 14388 "I"  
Inspector's Signature National Board Number and Endorsement

Date 2-12-2018

**D. C. Cook Nuclear Unit 1**

**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 1**

**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	Examination Category: B-G-1 Item No.: B6.90 Parts Examined: Steam Generator Bolts and Studs	Steam generator 1-OME-3-2 outlet manway stud had recordable indications that failed to meet the acceptance criteria of IWB-3515.1 for surface examination performed per Note 7 of Table 2500-1, Examination Category B-G-1. Reference WO 55484434-06, inspection report U1-VE-17-030 and AR 2017-9655.  The stud was replaced with a spare under WO 55453144-06. The satisfactory preservice examination of the replacement stud was performed as documented in inspection report U1-VE-17-040.	10/18/2017	55453144-06
1	Steam Generator 1-OME-3-1	Mechanical plugging of 25 tubes due to wear indications	10/25/2017	55457232-49
1	Steam Generator 1-OME-3-2	Mechanical plugging of 20 tubes due to wear indications	10/3/2017	55457231-27
1	Steam Generator 1-OME-3-3	Mechanical plugging of 16 tubes due to wear indications	10/3/2017	55457230-26
1	Steam Generator 1-OME-3-4	Mechanical plugging of 25 tubes due to wear indications	10/3/2017	55457229-26
1	Examination Category: B-N-3 Item No.: B13.70 Parts Examined: Core Support Structure	Replace 212 Baffle Former Bolts	11/11/2017	55493304-18