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December 17, 2020

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

Calvert Cliffs Nuclear Power Plant, Unit No. 1  
Renewed Facility Operating License No. DPR-53  
NRC Docket No. 50-317

Subject: **Inservice Inspection Report**

Reference: 1. American Society of Mechanical Engineers, Boiler & Pressure Vessel Code,  
Section XI, Article IWA-6000

Pursuant to Reference 1, please find enclosed the Inservice Inspection Report for the Calvert Cliffs Nuclear Power Plant Unit 1.

Calvert Cliffs has completed a proprietary design analysis for continued operation of Units 1 and 2 beyond one cycle due to a disengaged Core Shroud Tie Rod. This analysis is available for review during the upcoming NRC Inservice Inspection scheduled for March 2021.

There are no regulatory commitments contained in this letter.

Should you have questions regarding this matter, please contact Mr. Larry D. Smith at (410) 495-5219.

Respectfully,

A handwritten signature in black ink that reads "Larry D. Smith".

Larry D. Smith  
Manager – Regulatory Assurance

LDS/KLG/lmd

Enclosure: (1) 2020 Owner's Activity Report for 1-RFO-25 Inservice Examinations

A047  
NRR

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cc: **(Without Enclosure)**  
NRC Project Manager, Calvert Cliffs  
NRC Regional Administrator, Region I

NRC Resident Inspector, Calvert Cliffs  
S. Seaman, MD-DNR

**ENCLOSURE (1)**

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**2020 OWNER'S ACTIVITY REPORT FOR  
1-RFO-25 INSERVICE EXAMINATIONS**

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## FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number CC1R25

Plant Calvert Cliffs Nuclear Power Plant – 1550 Calvert Cliffs Parkway Lusby, MD 20657

Unit No.	<u>1</u>	Commercial Service Date	<u>May 8, 1975</u>	Refueling Outage Number	<u>RFO-25</u>
	<small>(if applicable)</small>				

ISI and Pressure Testing Fourth Inservice Inspection Interval - October 10, 2009 to June 30, 2019  
 Containment Inservice Inspection Interval – July 1, 2009 to June 30, 2019

Current Inspection Interval ISI, Pressure Testing (PT), Containment ISI Fifth Inservice Inspection Interval – July 1, 2019 to June 30, 2020  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, other)

ISI and Pressure Testing Third Inservice Inspection Period October 10, 2016 to June 30, 2019  
 Containment (CISI) Third Inservice Period, July 1, 2016 to June 30, 2019

Current Inspection Period ISI, Pressure Testing (PT), Containment ISI First Inservice Inspection Period – July 1, 2019 to June 30, 2022  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>)

Edition and Addenda of Section XI applicable to the Inspection Plans 2004 Edition, No addenda  
 2013 Edition, No addenda

ISI – Rev 00200 Dated August 9, 2015 and Rev 00200 Dated January 28, 2019  
 PT – Rev 00200 Dated October 23, 2014 and Rev. 00200 Dated January 28, 2019  
 CISI – Rev 00100 Dated February 6, 2014

Date / Revision of Inspection Plans ISI / PT / CISI – Rev. 0 Dated June 13, 2019 and Rev 1 Dated January 30, 2020

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans N/A

Code Cases used

Fourth Interval

N-460, N-504-4, N-513-3, N-513-4, N-526, N-532-4, N-552, N-552-1, N-561-2, N-562-2, N-566-2, N-586-1, N-593, N-593-2, N-613-1, N-616, N-619, N-624, N-638-6, N-639, N-641, N-643-2, N-648-1, N-653-1, N-664, N-686-1, N-705, N-716, N-722-1, N-729-1, N-729-4, N-739, N-731, N-733, N-747, N-751, N-753, N-762, N-770-1, N-770-2, N-773, N-786, N-786-1, N-789, N-798, N-800, N-805, N-823, N-825, N-845

Fifth Interval

N-432-1, N-513-4, N-516-3, N-532-5, N-561-2, N-562-2, N-569-1, N-593-2, N-597-2, N-613-2, N-638-6, N-639, N-641, N-643-2, N-648-1, N-651-1, N-661-2, N-666-1, N-705, N-716-1, N-731, N-733, N-747, N-749, N-751, N-771, N-773, N-786-1, N-789, N-798, N-800, N-805, N-825, N-845

**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 RFO-25 conform to the requirements of Section XI (refueling outage number)

Signed Travis Lefton - Lefton, Travis E Digitally signed by Lefton, Travis E  
DN: cn=Travis, o=ISI, email=Travis.E.Lefton@isi.com Date 12/4/2020  
ISI Program Manager, CCNPP Nuclear Engineering Program

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NY and employed by The Hartford Steam Boiler Inspection and Insurance Co. of Hartford, Connecticut 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 a loss of any kind arising from or connected with this inspection

Powers, Brandon Digitally signed by Powers, Brandon  
Date: 2020.12.09 14:02:21 -05'00' Commissions 16158 NY 5570  
(Inspector's Signature) National Board, State, Province, and Endorsements  
Date 12/09/2020

**Table 1**  
**Items with Flaws or Relevant Condition that Require Evaluation for Continued Service**

<b>Examination Category and Item Number</b>	<b>Item Description</b>	<b>Evaluation Description</b>
OWN / RV1	Unit 1 Failed Core Shroud Tie Rod	Design Analysis for Continued Operation of Unit 1 and 2 Beyond One Cycle due to Disengaged Core Shroud Tie Rods. ECP-18-000534
B-P / B15 10	BACC Leakage at 11A RCP	IWA-5251 Alternative Corrective Action for Leakage Identified at RCP 11A, ECP-20-000141
B-P / B15.10	BACC Leakage at 1-MOV-644	IWA-5251 Alternative Corrective Action for Leakage Identified at 1-MOV-644 Bolted Connection, ECP-20-000170

**Table 2**  
**Abstract of Repairs, Replacements or Corrective Measures Required for Continued Service**

<b>Code Class</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Date Completed</b>	<b>R&amp;R Plan Number</b>
1	12A Sit tank Bolting Replaced	Bolting Replaced after wastage identified from boric acid leak.	3/4/2020	2020-1-015