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CALVERT CLIFFS  
NUCLEAR POWER PLANT

January 31, 2012

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

**ATTENTION:** Document Control Desk

**SUBJECT:** Calvert Cliffs Nuclear Power Plant  
Unit No. 2; Docket No. 50-318  
Inservice Inspection Report Revision

**REFERENCES:**

- (a) American Society of Mechanical Engineers, Boiler & Pressure Vessel Code, Section XI, Article IWA-6000
- (b) Letter from J. J. Stanley (CCNPP) to Document Control Desk (NRC), dated May 25, 2011, Inservice Inspection Report

Pursuant to Reference (a), Calvert Cliffs Nuclear Power Plant, LLC submitted Reference (b), the Inservice Inspection Report for Calvert Cliffs Unit 2. Enclosed is a revised Inservice Inspection Report for Calvert Cliffs Unit 2 that incorporates additional repair and replacement activities that were identified through our corrective action program and which should have been included in Reference (b).

Should you have questions regarding this matter, please contact Mr. Douglas E. Lauver at (410) 495-5219.

Very truly yours,

James J. Stanley  
Manager – Engineering Services

JJS/KLG/bjd

Enclosure: (1) 2011 Owner's Activity Report for RFO Inservice Examinations, Revision 01 (Unit 2)

cc: Mr. Craig Lowry

A047  
KRR

Document Control Desk  
January 31, 2012  
Page 2

**(Without Enclosure)**  
D. V. Pickett, NRC  
W. M. Dean, NRC

Resident Inspector, NRC  
S. Gray, DNR

**ENCLOSURE (1)**

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**2011 OWNER'S ACTIVITY REPORT FOR  
RFO INSERVICE EXAMINATIONS, REVISION 01 (UNIT 2)**

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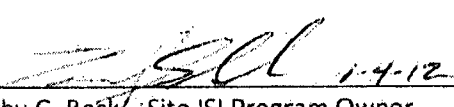
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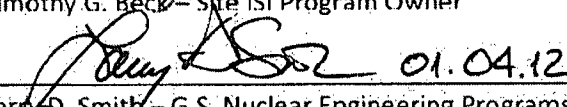
Constellation Energy Nuclear Group, LLC  
1650 Calvert Cliffs Parkway  
Lusby, MD 20657

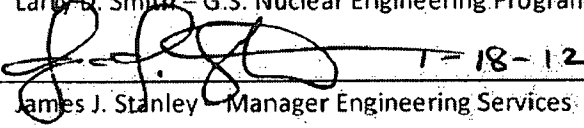
## Fourth Inservice Inspection Interval First Inservice Inspection Period

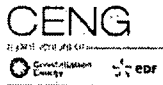
### 2011 Owner's Activity Report for RFO-18 Inservice Examinations Revision 01

Commercial Service Date: April 1, 1977  
NRC Docket Number: 50-318  
Document Number: CCNPP-2-OAR-004-018

Prepared by:  1-4-12  
Timothy G. Beck - Site ISI Program Owner

Reviewed by:  01.04.12  
Larry B. Smith - G.S. Nuclear Engineering Programs

Approved by:  1-18-12  
James J. Stanley - Manager Engineering Services

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### Abstract

Calvert Cliffs Condition Report CR-2011-010682 identified two NIS-2A records which should have been included on the 2011 Owner's Activity Report (OAR). Corrective Action CA-2011-006141 was created to revise and resubmit this document with the appropriate information added to Table 2. A Class Two Feedwater line examined under the FAC Program as below minimum wall and evaluated as acceptable for continued service has been added to Table 1.

This revised Owner's Activity Report (OAR) summarizes the results of the Calvert Cliffs Nuclear Power Plant (CCNPP), Unit 2, American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code (B&PVC), Section XI, Inservice Inspection examinations (ISI), performed during the period from October 10, 2009 through March 13, 2011, the First Inservice Inspection Period which began on October 10, 2009 and is scheduled to end on June 30, 2012 and the First outage of the Fourth Ten-Year Inservice Inspection Interval which began on October 10, 2009 and is scheduled to end on June 30, 2019.

In addition, the three CCNPP Unit 2 Reactor Vessel Supports were performed to satisfy the requirements of the Third Ten-Year Interval. These exams were identified as omitted from previous program plans and added after the 2009 outage. These exams were not credited towards the Fourth Ten-Year Interval.


As an alternate to the requirements of the ASME Boiler and Pressure Vessel Code (B&PVC), Section XI, Article IWA-6000, CCNPP is implementing ASME Code Case N-532-4, "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." Regulatory Guide 1.147, Revision 16 (Oct. 2010), approved ASME Code Case N-532-4 for use. This report complies with the requirements of ASME Code Case N-532-4.

In accordance with ASME Section XI, IWB-2412(a), IWC-2412, IWD-2412, and IWE-2412(a), and with the exception of those examinations that are limited to components selected for examination under Examination Categories B-L-2 and R-M-2 and required only when the pump or valve is disassembled as specified in Table IWB-2500-1, IWC-2500-1, IWD-2500-1, IWF-2500-1, and IWE-2500-1, including those examinations which CCNPP has requested and received approval in the form of requests for relief or alternates, the required examinations in each examination category have been completed for the First outage of the First Inspection Period of the Fourth Inspection Interval in accordance with Tables IWB-2412-1, IWC-2412-1, IWD-2412-1, and IWE-2412-1.

### Owner's Activity Reports – Form OAR-1


Owner's Activity Reports, Form OAR-1 were prepared and certified upon completion of the Calvert Cliffs Nuclear Power Plant Unit 2, 2011 Refueling Outage (RFO-18) examination activity in accordance with the following inspection plans:

- CENG- CCNPP1-ISI-004, Fourth Inservice Inspection Program Plan
- Second Interval Containment Inservice Inspection Program Plan
- Fourth Interval Inservice Inspection Pressure Testing Program Plan

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|   | <b>Fourth Inservice Inspection Interval</b><br><b>First Inservice Inspection Period</b><br><b>2011 Owner's Activity Report</b><br><b>for</b><br><b>RFO-18 Inservice Examinations</b> |  |

In addition to the Owner's Activity Reports, Form OAR-1, the following Tables are also included:

- a. **Items with Flaws or Relevant Conditions that Require Evaluation for Continued Service**, Table 1, provides a listing of item(s) with flaws or relevant conditions that required evaluation to determine acceptability for continued service, whether or not the flaw or relevant condition was discovered during a scheduled examination or test, and provides such information as Examination Category, Examination Item Number, Item Description, Flaw Characterization (as required by IWA-3300).
- b. **Abstract of Repairs, Replacements or Corrective Measures Required for Continued Service**, Table 2, identifies those items containing flaws or relevant conditions that exceeded the ASME XI acceptance criteria (IWB-3000, IWC-3000, or IWD-3000) or in the case of supports, IWF-3000 acceptance criteria; even though the discovery of the flaw or relevant condition that necessitated the repair, replacement, or corrective measure, may not have resulted from an examination or test required by ASME Section XI, and provides such information as Code Class, whether the item is a repair, replacement, or corrective action, item description, description of work, if the flaw or relevant condition was found during a scheduled ASME Section XI examination or test, date completed, and the repair replacement plan number.

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**FORM OAR-1  
OWNER'S ACTIVITY REPORT**

as required by the provisions of the ASME Code Case N-532-4

Report Number CCNPP-2-OAR-004-018

Plant Calvert Cliffs Nuclear Power Plant

Unit No. 2 Commercial service date April 1, 1977 Refueling outage no. RFO-18  
(it applicable)

Current inspection interval Fourth Inservice Inspection Interval - October 10, 2009 to June 30, 2019  
(1st, 2nd, 3rd, 4th, other)

Current inspection period First Inservice Inspection Period - October 10, 2009 to June 30, 2012  
(1st, 2nd, 3rd)

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

Date and revision of inspection plans Fourth Interval Inservice Inspection Program Plan Rev. 0 Dated Dec. 28, 2009

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

Code Cases used: N/A  
(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 RFO-18 conform to the requirements of Section XI.

Signed LARRY D. SMITH  Date 01.04.12  
General Supervisor, CCNPP Nuclear Engineering Programs

**CERTIFICATE OF INSERVICE INSPECTION**

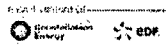
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Maryland and employed by Hartford Steam Boiler (HSBCT) of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, and state 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.

  
Inspector's Signature

Commissions NB 13074 A.N.I. MD 1225  
National Board, State, Province, and Endorsements

Date 1-4-12



**Fourth Inservice Inspection Interval  
First Inservice Inspection Period  
2011 Owner's Activity Report  
for  
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