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CALVERT CLIFFS  
NUCLEAR POWER PLANT

June 21, 2010

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

**ATTENTION:** Document Control Desk

**SUBJECT:** Calvert Cliffs Nuclear Power Plant  
Unit No. 1; Docket No. 50-317  
Inservice Inspection Report

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**REFERENCE:** (a) American Society of Mechanical Engineers, Boiler & Pressure Vessel  
Code, Section XI, Article IWA-6000

Pursuant to Reference (a), please find enclosed the Inservice Inspection Report for the Calvert Cliffs Nuclear Power Plant Unit 1. This inspection fulfilled the intentions and requirements stated in our commitment to comply with the American Society of Mechanical Engineers, Boiler & Pressure Vessel Code, Section XI, Inservice Inspection Requirements.

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/RDW/bjd

Enclosure: (1) 2010 Owner's Activity Report for U-1 RFO Inservice Examinations

cc: Mr. Craig Lowry

(Without Enclosure)  
D. V. Pickett, NRC  
S. J. Collins, NRC

Resident Inspector, NRC  
S. Gray, DNR

A047  
NRC

**ENCLOSURE (1)**

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**2010 OWNER'S ACTIVITY REPORT FOR  
U-1 RFO INSERVICE EXAMINATIONS**

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EDF

Constellation Energy Nuclear Corporation  
100 Constellation Way, Suite 200C  
Candler Building, 2<sup>ND</sup> Floor  
Baltimore, Maryland 21202

## FOURTH INSERVICE INSPECTION INTERVAL FIRST INSERVICE INSPECTION PERIOD

### 2010 OWNER'S ACTIVITY REPORT FOR RFO-19 INSERVICE EXAMINATIONS

Prepared For

Calvert Cliffs Nuclear Power Plant  
1650 Calvert Cliffs Parkway  
Lusby, Maryland 20657

Commercial Service Date: May 8, 1975  
NRC Docket Number: 50-317  
Document Number: CCNPP1-OAR-004-019  
Revision Number: 00 Date: June 3, 2010

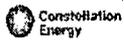
Prepared by: Edward L. Anderson  
Edward L. Anderson - Corporate Fleet ISI Engineering Programs Owner

Reviewed by: Carl L. Friant  
Carl L. Friant - Supervisor Corporate Fleet Engineering Programs

Approved by: William J. Campbell  
William J. Campbell - General Supervisor Corporate Fleet Engineering Programs

Reviewed by: Timothy Beck  
Timothy Beck - CCNPP ISI Program Implementer

Reviewed by: William Wilson 6/10/10  
William Wilson - General Supervisor CCNPP Site Engineering Programs

 a joint venture of  	Calvert Cliffs Nuclear Power Plant Unit 1	CCNPP1-OAR-004-019
	<b>FOURTH INSERVICE INSPECTION INTERVAL  2010 OWNERS' ACTIVITY REPORT  FOR  INSERVICE EXAMINATIONS</b>	Rev. 00 Date: June 3, 2010 Page 1 - 2 of 1 - 8

### ABSTRACT

This Owner's Activity Report summarizes the results of the Calvert Cliffs Nuclear Power Plant (CCNPP), Unit 1, American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code (B&PVC), Section XI, In-service (ISI) Examinations performed in Refueling Outage Nineteen (RFO-19), during the period from February 22, 2010 through March 25, 2010, the First outage of the First In-service Inspection Period which began on July 1, 2009 and is scheduled to end on June 30, 2012 and the First outage of the Fourth Ten-Year In-service Inspection Interval (July 1, 2009 through June 30, 2019).

In addition, the CCNPP Unit 1 Third Ten-Year In-service Inspection Interval was extended to June 30, 2010 as allowed by IWA-2430(d)(1). The examinations being performed to satisfy the requirements of the extended third inspection interval were performed in conjunction with the examinations performed to satisfy the requirements of the first outage of the fourth inspection interval. The examinations performed to satisfy the requirements of either the extended third inspection interval or the fourth inspection interval were not credited to both intervals.

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 15, approved ASME Code Case N-532-4 for use. This Report complies with the requirements of 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 B-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 Third Inspection Interval and the First outage of the First In-service 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's were prepared and certified upon completion of the Calvert Cliffs Nuclear Power Plant Unit 1, 2010 refueling outage (RFO-19) examination activity in accordance with the following inspection plans:

- CENG-CCNPP1-ISI-003, Third In-service Inspection Plan and Schedule
- CENG-CCNPP1-ISI-004, Fourth In-service Inspection Plan and Schedule

In addition to the Owner's Activity Report, 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).

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- 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 Section XI acceptance criteria (IWX-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 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 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 N532-4

Report Number CCNPP1-OAR-004-019

Owner Constellation Energy Nuclear Group, 100 Constellation Way, Baltimore, Maryland 21202  
(Name and Address of Owner)

Plant Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, Maryland 20657  
(Name and Address of Plant)

Plant Unit 1 Commercial Service Date May 8, 1975 Refueling Outage Number RFO-19

Current Inspection Interval Third Inservice Inspection Interval - July 1, 1999 to June 30, 2009  
(1st, 2nd, 3rd, 4th, Other)

Current Inspection Period Third Inservice Inspection Period - July 1, 2006 to June 30, 2009  
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plan 1998 Edition, No Addenda

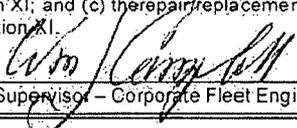
Date and Revision of Inspection Plan Third Interval Inservice Inspection Program Plan, Revision 04, Dated April 27, 2009

Edition and Addenda of Section XI applicable to Repair/Replacement Activities, if different than the Inspection Plan N/A

Code Cases used N/A  
If applicable

**CERTIFICATE OF CONFORMANCE**

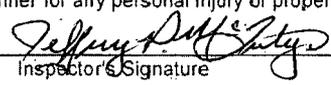
I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of RFO-19 conform to the requirements of Section XI.

Signed  Date 5-19-10  
(General Supervisor - Corporate Fleet Engineering Programs)

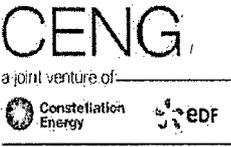
**CERTIFICATE OF INSERVICE INSPECTION**

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.

 Commissions NB 13074 ANI, MD 1225  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-11-10

	Calvert Cliffs Nuclear Power Plant Unit 1	CCNPP1-OAR-004-019
	<b>FOURTH INSERVICE INSPECTION INTERVAL 2010 OWNERS' ACTIVITY REPORT FOR INSERVICE EXAMINATIONS</b>	Rev. 00 Date: June 3, 2010 Page i - 5 of i - 8

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

As required by the provisions of the ASME Code Case N532-4

Report Number CCNPP1-OAR-004-019

Owner Constellation Energy Nuclear Group, 100 Constellation Way, Baltimore, Maryland, 21202  
(Name and Address of Owner)

Plant Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, Maryland 20657  
(Name and Address of Plant)

Plant Unit 1 Commercial Service Date May 8, 1975 Refueling Outage Number RFO-19

Current Inspection Interval Fourth Inservice Inspection Interval - July 1, 2009 to June 30, 2019  
(1st, 2nd, 3rd, 4th, Other)

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

Edition and Addenda of Section XI applicable to the Inspection Plan 2004 Edition, No Addenda

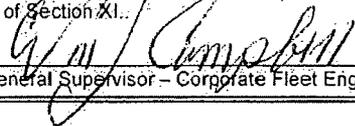
Date and Revision of Inspection Plan CENG-CCNPP1-ISI-004 Inservice Inspection plan; Revision 00, Dated, Dec 29, 2009

Edition and Addenda of Section XI applicable to Repair/Replacement Activities, if different than the Inspection Plan 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-19 conform to the requirements of Section XI.

Signed  Date 5-19-10  
(General Supervisor - Corporate Fleet 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.

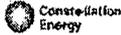
By signing this certificate neither the Inspector nor his employer makes a warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or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

 Commissions NB 13074 ANI MD 1225  
Inspector's Signature National Board, State, Province, and Endorsement

Date 6-11-10





<b>CENG</b> a joint venture of  	<b>Calvert Cliffs Nuclear Power Plant Unit 1</b>	<b>CCNPP1-OAR-004-019</b>
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**END OF  
OWNER'S ACTIVITY REPORT  
FOR  
REFUELING OUTAGE NINETEEN (RFO-19)**