



Constellation Energy
Nuclear Generation Group

June 12, 2009

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

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 2. 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. Jay S. Gaines at (410) 495-5219.

Very truly yours,

Mark D. Flaherty
Manager – Engineering Services

MDF/RDW/bjd

Enclosure: (1) 2009 Owner's Activity Report for RFO-17 Inservice Examinations

cc: Mr. Craig Lowry

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

Resident Inspector, NRC
S. Gray, DNR

A047
NRR

ENCLOSURE (1)

**2009 OWNER'S ACTIVITY REPORT FOR
RFO-17 INSERVICE EXAMINATIONS**



Constellation
Nuclear

Calvert Cliffs
Nuclear Power Plant

A Member of the
Constellation Energy Group

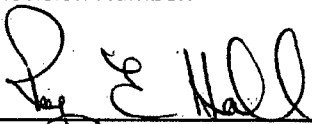
Constellation Energy
750 East Pratt Street
Baltimore, Maryland 21202

**THIRD INSERVICE INSPECTION INTERVAL
THIRD INSERVICE INSPECTION PERIOD
2009 OWNER'S ACTIVITY REPORT
FOR
RFO-17 INSERVICE EXAMINATIONS**

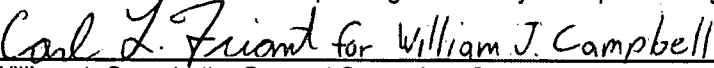
Prepared For


**Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657**

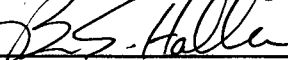
Commercial Service Date: April 1, 1977
NRC Docket Number: 50-318
Document Number: CCNPP2-OAR-003-017
Revision Number: 00 Date: May 19, 2009

Prepared by:  MAY 19, 2009
Roy E. Hall - Principal Engineer Analyst Corporate Engineering Programs

Reviewed by:  MAY 19, 2009
Edward L. Anderson - Principal Engineer Analyst Corporate Engineering Programs

Approved by:  for William J. Campbell per telecon 5/20/2009
William J. Campbell - General Supervisor Corporate Engineering Programs

Reviewed by:  5-20-09
Tim G. Beck - Site ISI Program Implementer

Approved by:  5-20-09
Brian S. Haller - General Supervisor - Engineering Programs Unit


| | | |
|--|--|---|
|  Constellation Nuclear Calvert Cliffs Nuclear Power Plant <i>A Member of the Constellation Energy Group</i> | Calvert Cliffs Nuclear Power Plant, Unit 2 | CCNPP2-OAR-003-17 |
| | THIRD INSERVICE INSPECTION INTERVAL 2009 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS | Rev. 00 Date: May 19, 2009 Page i - 2 of i - 8 |

TABLE OF CONTENTS

Table of Contents i-2


Abstract..... i-3

Form OAR-1 Owner's Activity Report for Inservice Inspection Plan (Includes RI-ISI)..... i-4

Form OAR-1 Owner's Activity Report for Containment Inservice Inspection Plan i-5

Table 1 Items with Flaws or Relevant Conditions that Require Evaluation for Continued Service i-6

Table 2 Abstract of Repair/Replacement Activities Required for Continued Service..... i-7

| | | |
|--|---|---|
|  <p>Constellation Nuclear</p> <p>Calvert Cliffs Nuclear Power Plant</p> <p><small>A Member of the Constellation Energy Group</small></p> | <p>Calvert Cliffs Nuclear Power Plant, Unit 2</p> | <p>CCNPP2-OAR-003-17</p> |
| | <p>THIRD INSERVICE INSPECTION INTERVAL 2009 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS</p> | <p>Rev. 00</p> <p>Date: May 19, 2009</p> <p>Page i - 3 of i - 8</p> |

ABSTRACT

This Owner's Activity Report summarizes the results of the Calvert Cliffs Nuclear Power Plant (CCNPP), Unit 2, American Society of Mechanical Engineers (ASME) Section XI Inservice Inspection, Risk-Informed Inspection and Containment Inservice Examinations performed during Refueling Outage Seventeen (RFO-17), from February 22, 2009 through March 17, 2009, and the Second and final outage of the Third Inservice Inspection Period that started on July 1, 2006 and is scheduled to end on October 9, 2009.

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.


OWNER'S ACTIVITY REPORTS - FORM OAR-1

Owner's Activity Reports Form OAR-1's were prepared and certified upon completion of the CCNPP Unit 2, 2009 refueling outage (RFO-17) examination activity in accordance with the following inspection plans and schedules:

- Inservice Inspection Program Plan(s) for the Third and successive Inspection Intervals for CCNPP Units 1 and 2
- Long Term Plan for CCNPP, Unit 2
- CCNP-002-004, Calvert Cliffs Nuclear Power Plant Risk-Informed Inservice Inspection Application to Class 1 and 2 Piping Final Report
- ISI Program Plan ASME XI, IWE/IWL First Inspection Interval

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).
- 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.

| | | |
|---|---|--|
|  Constellation Nuclear Calvert Cliffs Nuclear Power Plant <small>A Member of the Constellation Energy Group</small> | Calvert Cliffs Nuclear Power Plant, Unit 2 | CCNPP2-OAR-003-17 |
| | THIRD INSERVICE INSPECTION INTERVAL 2009 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS | |
| | | Rev. 00 Date: May 19, 2009 Page i - 4 of i - 8 |

**FORM OAR-1
 OWNER'S ACTIVITY REPORT**
 As required by the provisions of the ASME Code Case N-532-1

Report Number CCNPP2-OAR-003-17
 Plant Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, Maryland 20657
 (Name and Address of Plant)
 Unit No. 2 Commercial Service Date April 1, 1977 Refueling Outage Number RFO-17
 Current Inspection Interval Third Inservice Inspection Interval - July 1, 1999 to October 9, 2009
 (1st, 2nd, 3rd, 4th, Other)
 Current Inspection Period Third Inservice Inspection Period - July 1, 2006 to October 9, 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 Revision 04, Change 0, Dated May 12, 2009
 Edition and Addenda of ASME Section XI applicable to repairs/replacements, if different than the Inspection Plan N/A
 Code Cases used: _____
 (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 completion of RFO-17 conform to the requirements of Section XI.

Certificate of Authorization No. N/A Expiration Date N/A
 (If applicable)

Signed *Jeffrey P. McIntyre* Date 5-19-09
 (General Supervisor - Corporate 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.

Jeffrey P. McIntyre *Jeffrey P. McIntyre* Commissions NB13074, Maryland - 1225, A, N, I
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5-20-09

| | | |
|---|---|--------------------------|
|  Constellation Nuclear Calvert Cliffs Nuclear Power Plant <small>A Member of the Constellation Energy Group</small> | Calvert Cliffs Nuclear Power Plant, Unit 2 | CCNPP2-OAR-003-17 |
| | THIRD INSERVICE INSPECTION INTERVAL 2009 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS | |

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

As required by the provisions of the ASME Code Case N-532-1

Report Number CCNPP2-OAR-003-17

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

Unit No. 2 Commercial Service Date April 1, 1977 Refueling Outage Number RFO-17

Current Inspection Interval First Containment Inspection Interval - July 1, 1999 to September 8, 2009
 (1st, 2nd, 3rd, 4th, Other)

Current Inspection Period Third Inservice Inspection Period - July 1, 2006 to September 8, 2009
 (1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the Inspection Plans 1992 Edition, 1992 Addenda

Date and Revision of Inspection Plans Revision 03, Change 0, Dated May 29, 2008

Edition and Addenda of ASME Section XI applicable to repairs/replacements, if different than the Inspection Plan N/A

Code Cases used: _____
 (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 completion of RFO-17 conform to the requirements of Section XI.

Certificate of Authorization No. N/A (If applicable) Expiration Date N/A

Signed *Wm J Campbell* Date 5-14-09
 (General Supervisor - Corporate 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.

Jeffrey P. McIntyre Commissions NB13074, Maryland - 1225, A, N, I
 Inspector's Signature *Jeffrey P. McIntyre* National Board, State, Province, and Endorsements

Date 5-20-09

| | | |
|---|--|--|
|  Constellation Nuclear Calvert Cliffs Nuclear Power Plant <small>A Member of the Constellation Energy Group</small> | Calvert Cliffs Nuclear Power Plant, Unit 2 | CCNPP2-OAR-003-17 |
| | THIRD INSERVICE INSPECTION INTERVAL 2009 OWNER'S ACTIVITY REPORT FOR INSERVICE EXAMINATIONS | Rev. 00 Date: May 19, 2009 Page i - 8 of i - 8 |

**END OF INSERVICE INSPECTION
OWNER'S ACTIVITY REPORT
FOR
REFUELING OUTAGE SEVENTEEN (RFO-17)**