

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

February 15, 2013

United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

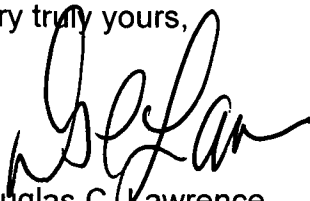
Serial No. 13-094  
SPS-LIC/CGL R0  
Docket No. 50-281  
License No. DPR-37

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNIT 2**  
**INSERVICE INSPECTION OWNER'S ACTIVITY REPORT (OAR)**

In accordance with the requirements of ASME Code Case N-532-4, Virginia Electric and Power Company (Dominion) hereby submits the Inservice Inspection Owner's Activity Report (Form OAR-1) for Surry Unit 2 refueling outage S2R24. This document contains the reporting requirements for the first refueling outage of the third period in the fourth ten-year inservice inspection interval for Surry Unit 2.

If you have any questions concerning this information, please contact Mrs. Candee G. Lovett at (757) 365-2178.

Very truly yours,



Douglas C. Lawrence  
Director Station Safety & Licensing  
Surry Power Station

Attachment: Owner's Activity Report (Form OAR-1), Surry Unit 2 Refueling Outage S2R24, Third Period of the Fourth ISI Interval

Commitments made in this letter: None

A047  
NR2

cc: U.S. Nuclear Regulatory Commission  
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Mr. R. A. Smith  
Authorized Nuclear Inspector  
Surry Power Station

**ATTACHMENT**

**Owner's Activity Report (Form OAR-1),  
Surry Unit 2 Refueling Outage S2R24,  
Third Period of the Fourth ISI Interval**

**VIRGINIA ELECTRIC AND POWER COMPANY  
(DOMINION)**

CASES OF ASME BOILER AND PRESSURE VESSEL CODE  
**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number 2-4-3-1 (Unit 2, 4th Interval, 3rd Period, 1st Report)

Plant Surry Power Station, 5570 Hog Island Road, Surry, VA 23883

Unit No. 2 Commercial service date 05/01/1973 Refueling outage No. S2R24  
(if applicable)

Current inspection interval 4th  
(1st, 2nd, 3rd, 4th, other)

Current inspection period 3rd  
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 1998 Edition, 2000 Addenda

Date and revision of inspection plans Surry Unit 2, 4th Interval ISI Plan, Revision 9, August 23, 2011

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

Code Cases used: N-460, N-532-4, N-533-1, N-566-2  
(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 S2R24 conform to the requirements of Section XI. (refueling outage number)

Signed [Signature] / ISI Program Owner Date 01/31/2013  
Owner 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 the State or Province of Virginia and employed by HSB-CT of CT 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.

[Signature] Commissions VA883(R)  
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/31/13

## CASES OF ASME BOILER AND PRESSURE VESSEL CODE

**N-532-4****FORM OAR-1 OWNER'S ACTIVITY REPORT**

**TABLE 1**  
**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item	Item Description	Evaluation Description
B-P, B15.70	2-RC-HCV-2557C / Bolted Flange	During the performance of an ASME Section XI system pressure test (2-OPT-RC-11.1) boric acid was discovered on the body to bonnet bolting of 2-RC-HCV-2557C. (CR498782/CA250964 ) Code Case N-566-2 was used to perform an evaluation of the bolting and component material. This evaluation determined the bolting and component to be acceptable for continued service.
B-P, B15.70	2-RH-20 / Bolted Flange	During the performance of an ASME Section XI system pressure test (2-NPT-RH-001) boric acid was discovered on the body to bonnet of 2-RH-20. (CR498039/CA250564) Code Case N-566-2 was used to perform an evaluation of the bolting and component material. This evaluation determined the bolting and component to be acceptable for continued service.
B-P, B15.70	2-RH-MOV-2700 / Bolted Flange	During the performance of an ASME Section XI system pressure test (2-NPT-RC-002) boric acid was discovered on the body to bonnet connection of 2-RH-MOV-2700. (CR494516/CA248450) Code Case N-566-2 was used to perform an evaluation of the bolting and component material. This evaluation determined the bolting and component to be acceptable for continued service.
B-P, B15.70	2-SI-91 / Bolted Flange	During the performance of an ASME Section XI system pressure test (2-NPT-RC-002) boric acid was discovered on the body to bonnet connection of 2-SI-91. (CR494503/CA248448) Code Case N-566-2 was used to perform an evaluation of the bolting and component material. This evaluation determined the bolting and component to be acceptable for continued service.

## CASES OF ASME BOILER AND PRESSURE VESSEL CODE

**N-532-4****FORM OAR-1 OWNER'S ACTIVITY REPORT**

**TABLE 1**  
**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item	Item Description	Evaluation Description
B-P, B15.70	2-SI-MOV-2842 / Bolted Flange	During the performance of an ASME Section XI system pressure test (2-NPT-SI-006) boric acid was discovered on the body to bonnet connection of 2-SI-MOV-2842. (CR495428/CA249066) Code Case N-566-2 was used to perform an evaluation of the bolting and component material. This evaluation determined the bolting and component to be acceptable for continued service.
F-A, F1.10	2-RC-H001 / Missing Nut	VT-3 examination of support 2-RC-H001 on line 2"RC-358-1502, identified a missing nut on a bolt that joins the upper and lower sections of the saddle portion of the rod hanger. (CR496956/CA249871) Engineering evaluation concluded the support could perform its design function in this condition.
F-A, F1.10	2-RC-H004 / Pre-service misalignment	While performing a pre-service examination on pipe support 2-RC-H004 on line 2"RC-353-1502 identified that the threaded rod attached from the ceiling to the pipe was found deflected 1 inch from centerline of pipe. (CR497849) Engineering evaluation concluded the support could perform its design function in this condition.
F-A, F1.30	2-CC-H004 / Missing bolt.	VT-3 examination of a vertical pipe support 2-CC-H004 on line 18"CC-14-121 identified a missing bolt. Improper thread engagement was also observed on the support. (CR496031/CA249257) Engineering evaluation concluded the support could perform its design function in this condition.

CASES OF ASME BOILER AND PRESSURE VESSEL CODE  
**FORM OAR-1 OWNER'S ACTIVITY REPORT**

CASE  
**N-532-4**

**TABLE 1**  
**ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item	Item Description	Evaluation Description
F-A, F1.40	2-SI-H001 / Improper thread engagement.	VT-3 examination of a component support 2-SI-H001 associated with 2-SI-P-1A identified four nuts not fully tight against baseplate. There are also three nuts with improper thread engagement. The baseplate has one hole with no anchor installed. (CR495908/CA249181) Engineering evaluation concluded the support could perform its design function in this condition. The subject bolts were tightened with work order 38103303846 as permitted by IWF 3122.3(b).
F-A, F1.40	H001A & H001B / Loose anchor bolt nuts	VT-3 examinations on spring hangers H001A & H001B on line 12"SI-205-153 identified loose anchor bolt nuts. (CR495896/CA249179) Engineering evaluation concluded the support could perform its design function in this condition. The subject bolts were tightened with work order 38103303198 as permitted by IWF 3122.3(b).

## CASES OF ASME BOILER AND PRESSURE VESSEL CODE

**N-532-4****FORM OAR-1 OWNER'S ACTIVITY REPORT**

**TABLE 2**  
**ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
1	2-RC-H001	Replace missing nut on hanger 2-RC-H001, line 2"RC-358-1502 as shown on drawing 11548-WMKS-RC-10Z1.	11/25/2012	2012-196
1	2-RC-H004	Replace clevis hanger 2-RC-H004 on line number 2"-RC-353-1502 as shown on drawing 11548-WMKS-RC-10Z2.	11/12/2012	2012-183
1	2-RC-P-1B	Replace retaining ring used for 2-RC-P-1B pump support.	11/30/2012	2012-205
3	96"WC-104-10	Through wall base metal repair.	11/14/2012	2012-175