

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 24, 2014

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

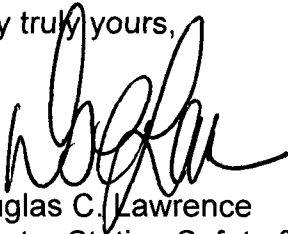
Serial No. 14-365  
SPS-LIC/CGL R0  
Docket No. 50-281  
License No. DPR-37

**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 S2R25. This document contains the reporting requirements for the second 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 S2R25, Third Period of the Fourth ISI Interval

Commitments made in this letter: None

A047  
MLR

cc: U.S. Nuclear Regulatory Commission  
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NRC Senior Resident Inspector  
Surry Power Station

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Mr. R. A. Smith  
Authorized Nuclear Inspector  
Surry Power Station

Serial No.: 14-365  
Docket No.: 50-281

**ATTACHMENT**

**OWNER'S ACTIVITY REPORT (FORM OAR-1),  
SURRY UNIT 2 REFUELING OUTAGE S2R25,  
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 2-4-3-2 (Unit 2, 4th Interval, 3rd Period, 2nd Report)  
Plant Surry Power Station, 5570 Hog Island Road, Surry, VA 23883  
Unit No. 2 Commercial service date 05/01/1973 Refueling outage No. S2R25  
(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 11, February 19, 2014  
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, N-663  
(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 S2R25 conform to the requirements of Section XI. (refueling outage number)

Signed [Signature] / ISI Program Owner Date 07/17/2014  
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 Global Standards 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]  
Inspector's Signature

Commissions NB-7933 NS, IS; VA883(R)  
National Board, State, Province, and Endorsements

Date 07/17/2014

## 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-MOV-2595 / Body to bonnet	<p>During the performance of an ASME Section XI system pressure test (2-NPT-RC-002), boric acid was discovered on the body to bonnet joint of 2-RC-MOV-2595.            (CR545855)            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.</p>
B-P, B15.70	2-RC-PCV-2455A / Body to bonnet	<p>During the performance of an ASME Section XI system pressure test (2-NPT-RC-002), boric acid was discovered on the body to bonnet joint of 2-RC-PCV-2455A.            (CR545868)            In accordance with IWA-5250(a)(2), a VT-3 examination of the flange fastener closest to the source of the leakage was performed. This evaluation determined the fastener to be acceptable with no degradation.</p>
B-P, B15.70	2-SI-79 / Body to bonnet	<p>During the performance of an ASME Section XI system pressure test (2-NPT-RC-002), boric acid was discovered on the body to bonnet joint of 2-SI-79.            (CR545846)            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.</p>
B-P, B15.70	2-SI-91 / Body to bonnet	<p>During the performance of an ASME Section XI system pressure test (2-NPT-RC-002), boric acid was discovered on the body to bonnet joint of 2-SI-91.            (CR545714)            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.</p>

## 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
C-H, C7.10	2-CH-MOV-2269B / Body to bonnet	<p>During the performance of an ASME Section XI system pressure test (2-NPT-CH-006), boric acid was discovered on the body to bonnet joint of 2-CH-MOV-2269B.            (CR516235)            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.</p>
C-H, C7.10	2-SI-MOV-2842 / Body to bonnet	<p>During the performance of an ASME Section XI system pressure test (2-NPT-CH-006), boric acid was discovered on the body to bonnet joint of 2-SI-MOV-2842.            (CR516208)            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.</p>
F-A, F1.20	2-SI-H004 / Loose bolt and incorrect load setting	<p>A VT-3 examination of spring support 2-SI-H004 on line 6"-SI-353-1502 identified a loose upper pipe clamp bolt and a load setting outside the +/- 10 % allowance.            (CR547901)            Engineering evaluation concluded the spring support could perform its design function in this condition. Adjustments were made in accordance with work order 38103501760 as permitted by IWF 3112.3(b).</p>
F-A, F1.30	2-CC-H003 / Missing welds	<p>A VT-3 examination of pipe support 2-CC-H003 on line 6"-CC-165-151 identified missing welds according to the as-built drawing.            (CR546933)            Engineering evaluation concluded the support could perform its design function in this condition. The as-built drawing will be updated to reflect the correct configuration.</p>

CASES OF ASME BOILER AND PRESSURE VESSEL CODE  
**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
F-A, F1.30	2-WS-H002B / Loose bolts	<p>A VT-3 examination of pipe support 2-WS-H002B on line 24"-WS-132-10 identified the inner bolt on both sides of the pipe clamp were not tight against the side of the clamp. (CR547325)</p> <p>Engineering evaluation concluded the support could perform its design function in this condition. The loose bolts were adjusted with work order 38103498205 as permitted by IWF 3112.3(b).</p>
F-A, F1.40	2-RC-PAD-2 / Broken cap screw	<p>A VT-3 examination of a reactor vessel sliding foot support identified a broken cap screw on the monoball retaining plate. (CR546069)</p> <p>Engineering evaluation concluded by calculation CE-1653 that the sliding foot assembly remains functional with one capscrew non-functional. Prompt Operability Determination OD000584 requires inspection of the Unit 2 sliding foot assembly during the next scheduled RFO and development of a plan for restoration to full qualification.</p>
F-A, F1.40	2-RS-P-2B / 2-RS-H001 Loose and missing nuts	<p>A VT-3 examination of pump support 2-RS-H001 for 2-RS-P-2B identified one loose nut and two nuts that were flame-cut. (CR548863)</p> <p>Engineering evaluation ETE-CEM-2014-0009 concluded that the support could perform its design function in this condition. The loose nut is scheduled to be tightened with work order 38103499372 during the next scheduled maintenance of pump 2-RS-P-2B as permitted by IWF 3112.3(b).</p>

CASES OF ASME BOILER AND PRESSURE VESSEL CODE  
**FORM OAR-1 OWNER'S ACTIVITY REPORT**TABLE 2  
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
2	2-RS-P-2A / 2-RS-H001	Pump Support Modification IAW ETE-SU-2014-0037 to correct a rejected condition found during a ASME VT-3 examination.	5/16/2014	2014-091
3	2-CW-PP-96.00-WC-PIPE-103-10	Through wall base metal repairs.	5/10/2014	2014-066
3	2-SW-PP-30.00-WS-PIPE-137-10	Through wall base metal repair.	5/3/2014	2014-067