

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

September 6, 2011

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

Serial No. 11-489  
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 S2R23. This document contains the reporting requirements for the third refueling outage of the second 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,



B. L. Stanley  
Director Station Safety & Licensing  
Surry Power Station

Attachment: Owner's Activity Report (Form OAR-1), Surry Unit 2 Refueling Outage S2R23, Second Period of the Fourth ISI Interval

Commitments made in this letter: None

A047  
NRR

cc: U.S. Nuclear Regulatory Commission  
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Authorized Nuclear Inspector  
Surry Power Station

Serial No.: 11-489  
Docket No.: 50-281

**ATTACHMENT**

**Owner's Activity Report (Form OAR-1),  
Surry Unit 2 Refueling Outage S2R23,  
Second 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 2-4-2-3 (Unit 2, 4th Interval, 2nd Period, 3rd Report)

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

Unit No. 2 Commercial service date 05/01/1973 Refueling outage No. S2R23  
 (if applicable)

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

Current inspection period 2nd  
 (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 8, April 1, 2010

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

Code Cases used: N-532-4, 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 S2R23 conform to the requirements of Section XI. (refueling outage number)

Signed [Signature] ISI PROGRAM OWNER Date 08/22/2011  
 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 8/22/11

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
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 flange of 2-SI-91. (CA198572) 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-RC-MOV-2592 / Bolted Flange	During the performance of an ASME Section XI system pressure test (2-NPT-RC-002), boric acid was discovered on the flange of 2-RC-MOV-2592. (CA198573) 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,B15.60	2-RC-P-1C	During the performance of an ASME Section XI system pressure test (2-PT-11), boric acid was discovered on the flange of 2-RC-P-1C as a result of seal leakage. (CA203790) 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,F1.30	6" CC-153 / 2-CC-H001	VT-3 examination on spring support 2-CC-H001 revealed a bent rod and weld configuration discrepancy. (CR425333) Engineering evaluation concluded the spring support is functional.
F-A,F1.10	12" RC-310 / 2-RC-H002A	VT-3 examination on spring support 2-RC-H002A revealed misalignment. (CR423836) Engineering evaluation concluded the spring support is functional.
F-A,F1.10	12" RC-310 / 2-RC-H002B	VT-3 examination on spring support 2-RC-H002B revealed misalignment. (CR423841) Engineering evaluation concluded the spring support is functional.

## 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
F-A,F1.20	6" WAPD-150 / 2-WAPD-H025	VT-3 examination on a vertical/lateral constraint piping support 2-WAPD-H025 revealed incorrect clearances. (CR424116) Engineering evaluation concluded the vertical/lateral constraint piping support is functional.
F-A,F1.40	2" RC-359 / 2-RC-H002	VT-3 examination on spring support 2-RC-H002 revealed that the as-found cold load setting was outside of the acceptance tolerance given for this spring support. (CR424757) Engineering evaluation concluded the spring support is functional.
F-A,F1.10	4" RC-314 / 2-RC-H037A	VT-3 examination on spring support 2-RC-H037A revealed that the as-found cold load setting was outside of the acceptance tolerance given for this spring support. (CR425068) Engineering evaluation concluded the spring support is functional.
F-A,F1.10	4" RC-314 / 2-RC-H037B	VT-3 examination on spring support 2-RC-H037B revealed that the as-found cold load setting was outside of the acceptance tolerance given for this spring support. (CR425070) Engineering evaluation concluded the spring support is functional.

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	02-RC-MOV-2591	Replace damaged fasteners.	05/14/2011	2011-063
2	02-CH-E-6C	Replace flange fasteners for 02-CH-E-6C heat exchanger.	04/30/2011	2011-002
2	02-CH-E-6C	Replace flange fasteners for 02-CH-E-6C heat exchanger.	04/28/2010	2010-018
2	02-CH-E-6A	Replace heat exchanger 02-CH-E-6A due to ruptured tube.	01/13/2010	2010-001
2	02-CC-PP-6.00-CC-PIPE-153-151	Restore integral attachment on 02-CC-PP-6.00-CC-PIPE-153-151.	05/11/2011	2011-116
3	30" WS-137-10	Repair through wall leak.	05/23/2011	2011-129
3	96" WC-101-10	Repair through wall leak.	05/25/2011	2011-118
3	02-SW-TCV-208A	Replaced valve due to through wall leak.	02/26/2010	2010-010