

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 21, 2011

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

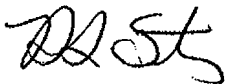
Serial No. 11-094
SS&L/BAG: R0
Docket Nos. 50-280
License Nos. DPR-32

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNIT 1
INSERVICE INSPECTION OWNER'S ACTIVITY REPORT

In accordance with the requirements of ASME Code Case N-532-4, Virginia Electric and Power Company hereby submits the Inservice Inspection Owner's Activity Report (Form OAR-1) for Surry Unit 1 refueling outage S1R23. This document contains the reporting requirements for the third refueling outage of the second period of the fourth ten-year inservice inspection interval for Surry Unit 1.

If you have any questions concerning the information provided, please contact Mr. Barry Garber at 757 365-2725.

Very truly yours,



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

Commitments made by this letter: None

Attachments:

1. Owner's Activity Report (Form OAR-1), Surry Unit 1 Refueling Outage S1R23 ,
Second Period of the Fourth Ten-Year ISI Interval

Commitments made by this letter: None

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

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Authorized Nuclear Inspector
Surry Power Station

ATTACHMENT

**Owner's Activity Report for Surry Unit 1
Refueling Outage S1R23 - Second Period of the Fourth ISI Interval**

**VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION**

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

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

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

Unit No. 1 Commercial service date 12/22/1972 Refueling outage No. S1R23
(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 1, 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 S1R23 conform to the requirements of Section XI. (refueling outage number)

Signed [Signature], ISI ENGINEER Date 1/27/11
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 2/10/11

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
C-C,C3.10	1-RH-E-1A / 1-H002-1	<p>Surface examination of this integral attachment revealed indications not meeting the acceptance criteria of IWC-3512. (CR401824) Corrective Action to remove indications was implemented with work order 38102779798 (CA183656) The as-left areas of excavation were evaluated, (CEM-0087 add00A), and concluded that the associated welds, and component were acceptable for continued service.</p>
C-C,C3.10	1-RH-E-1B / 1-H002-1 / IWC-2430(a)	<p>Surface examination of this integral attachment revealed indications not meeting the acceptance criteria of IWC-3512. (CR402569) Corrective Action to remove indications was implemented with work order 38102779799 (CA183989) The as-left areas of excavation were evaluated, (CEM-0087 add00A), and concluded that the associated welds, and component were acceptable for continued service.</p>
C-C,C3.10	1-RH-E-1A / 1-H001-1 / IWC-2430(b)	<p>Surface examination of this integral attachment revealed indications not meeting the acceptance criteria of IWC-3512. (CR402967) Corrective Action to remove indications was implemented with work order 38102779798 (CA183656) The as-left areas of excavation were evaluated, (CEM-0087 add00A), and concluded that the associated welds, and component were acceptable for continued service.</p>
C-C,C3.10	1-RH-E-1B / 1-H001-1 / IWC-2430(b)	<p>Surface examination of this integral attachment revealed indications not meeting the acceptance criteria of IWC-3512. (CR402799) Corrective Action to remove indications was implemented with work order 38102779799 (CA183989) The as-left areas of excavation were evaluated, (CEM-0087 add00A), and concluded that the associated welds, and component were acceptable for continued service.</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,F1.10C	12-SI-46 / 1-SI-H006B	VT-3 examination revealed a bolt and nut assembly could be spun in place. (CR401822) Engineering evaluation concluded the support was still able to perform its designed function. The bolt and nut assembly was tightened with Work Order 38102889772 as allowed in IWF-3112.3(b).
F-A,F1.20C	6-WAPD-50 / 1-WAPD-H024B	VT-3 examination on spring support 1-WAPD-H024B, revealed that the as-found cold load setting was outside of the acceptance tolerance given for this spring support. (CR402854) Engineering evaluation concluded the spring support was still able to perform its designed function. Adjustments were made in accordance with Work Orders 38102899018 and 38102903249 as allowed in IWF-3112.3(b) to bring the cold setting within the acceptable range.
F-A,F1.40B	2-SI-70 / 1-SI-H012	VT-3 examination performed after a maintenance activity, (not a scheduled examination), revealed one bolt which connects the upper end of one of two rod eyes to the clamp that surrounds the valve was found to have improper thread engagement. (CR403424) Engineering evaluation determined the support and piping system to be fully functional in this condition. An adjustment was made to achieve full thread engagement on all of its connection bolts in accordance with Work Order 38102904683 as allowed in IWF-3112.3(b).
B-P,B15.70	1-RC-PCV-1455A / Bolted Flange	During the performance of an ASME Section XI system pressure test (1-NPT-RC-002), boric acid was discovered on the flange of 1-RC-PCV-1455A. (CR400579) 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
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	1-SI-243 / Bolted Flange	<p>During the performance of an ASME Section XI system pressure test (1-NPT-RC-002), boric acid was discovered on the flange of 1-SI-243. (CR400589)</p> <p>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	1-SI-85 / Bolted Flange	<p>During the performance of an ASME Section XI system pressure test (1-NPT-RC-002), boric acid was discovered on the flange of 1-SI-85. (CR400590)</p> <p>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	1-RH-20 / Bolted Flange	<p>During the performance of an ASME Section XI system pressure test (1-NPT-RH-001), boric acid was discovered on the flange of 1-RH-20. (CR400482)</p> <p>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	1-RS-6 / Bolted Flange	<p>During the performance of an ASME Section XI system pressure test (1-NPT-RS-002), boric acid was discovered on the flange of 1-RS-6. (CR404305)</p> <p>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
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	1-RH-E-1A / Bolted Flange	<p>Follow-up of S1R22 OAR-1 Table-1 Item. Main flange connection with degraded bolts. (CR332725) No evidence of leakage was present this refueling cycle. Code Case N-566-2 was used to perform an additional evaluation of the bolting and component material. This evaluation determined the bolting and component to be acceptable for continued service.</p>
C-A,C1.10	1-RC-E-1B / 2-06	<p>During the performance of Volumetric examination required by IWC-2500, recordable indications were found. These indications have been documented by previous examinations and were determined by an analysis to be acceptable. An analysis was conducted subsequent to this examination and determined to be acceptable with no significant change.</p>
F-A,F1.20C	6-WAPD-50 / 1-WAPD-H024A	<p>VT-3 examination on spring support 1-WAPD-H024A, revealed that the as-found cold load setting was outside of the acceptance tolerance given for this spring support. (CR402854) Engineering evaluation concluded the spring support was still able to perform its designed function. Adjustments were made in accordance with Work Orders 38102899018 and 38102903249 as allowed in IWF-3112.3(b) to bring the cold setting within the acceptable range.</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
1	01-SI-PP-2.00-SI-PIPE-79-1502	Replaced Pipe	11/26/2010	2010-145
2	01-RH-E-1B	Remove rejectable indications.	12/16/2010	2010-038
2	01-RH-E-1A	Remove rejectable indications.	12/16/2010	2010-037
2	01-CH-PP-3.00-CH-PIPE-87-152	Repair weld leak	08/24/2009	2009-076
3	42"-WS-13-10	Repair through wall leak	10/06/2010	2010-104
3	01-CC-E-1D	Repair through wall leak	12/08/2009	2009-139
3	01-CW-PP-96.00-WC-PIPE-2-10	Repair through wall leak	12/02/2010	2010-149
3	01-SW-MEJ-1A	Replace expansion joint	11/24/2010	2010-130
3	01-SW-MEJ-1C	Replace expansion joint	12/02/2010	2010-147