

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 25, 2010

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

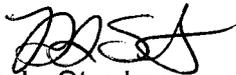
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Docket No.: 50-281
License No.: DPR-37

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

As allowed by 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", the Form OAR-1, for Surry Unit 2 refueling outage S2R22, is enclosed. This document contains, in Tables 1 and 2, the reporting requirements for the second refueling outage of the second period in the fourth ten-year inservice inspection interval for Surry Unit 2 from May 22, 2008 through the duration of the S2R22 refueling outage that was completed on November 30, 2009. The second period ends on May 9, 2011.

Should you have any questions regarding this submittal, please contact Mr. Trace Niemi at (757) 365-2848.

Very truly yours,



B. L. Stanley
Director Nuclear Station (S&L)
Surry Power Station

Commitments made in this letter: None

Attachment:

1. Owner's Activity Report (Form OAR-1), Surry Unit 2 Refueling Outage S2R22, Second Period of the Fourth Ten-Year ISI Interval

A047
NRR

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 S2R22
Second Period of the Fourth Ten-Year ISI Interval**

**Virginia Electric and Power Company
(Dominion)**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number1: 2-4-2-2 (Unit 2, 4th Interval, 2nd 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. S2R22
(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 7th, July 1, 2009.

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

Code Cases used: Complete listing can be found in Revision 7 of the ISI Plan
(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 S2R22 conform to the requirements of Section XI.
(refueling outage number)

Signed *W. H. Nodden*, Nuclear Engineer Date 02/18/10
Owner or Owner's Designed, 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 H.S.B I&I 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.

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

Date 2/18/10

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 Number	Item Description	Evaluation Description
F-A, F1.30C	6-CC-159/1-CC-H031	Lateral constraint spring support was identified to have movement obstruction of both struts and misalignment and binding of the spring can. Engineering evaluation showed that the subject spring support is considered fully functional. No corrective measures required. (CR355619).
F-A, F1.30B	24-WS-126-10/2-WS-H014	Exfoliation was found on one of the four nuts, its washers, and lower support plates. Support has no physical damage or reduction in material thickness. Engineering determined that condition does not affect support functionality. No corrective measures required. (CR356028).
F-A, F1.20A	10-SI-363/2-SI-H005	The subject hanger has one anchor bolt missing on the base plate. Engineering evaluation indicated that the hanger was fully qualified and would perform its intended design function. No corrective measures required. (CR356040).
F-A, F1.10B	4-RC-315/2-RC-H032	The support was identified with a missing weld. Engineering evaluation indicated that the support was qualified in its existing condition due to significant design margin. No corrective measures required. An adjustment was made to add a flare bevel weld at the missing weld location. (WO38102664408, CR356256, CA151712). [Cross reference, RR 2009-148, Table 2]
F-A, F1.20B	14-WFPD-117/2-WFPD-H006	Two loose nuts were identified in the support. The bolts and nuts are in the vertical plane and are intact. Engineering evaluation indicated that the loose nuts do not have an impact on the ability of support to perform its intended function. No corrective measures were required. The loose nuts were adjusted prior to

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		the unit starting up (WO38102668539, CR356708, CA151956).
F-A, F1.10C	2-CH-393/2-CH-H001	The spring hanger was identified to have a bent pipe clamp. Engineering has determined that the support is fully functional. No corrective measures required. (CR356611).
F-A, F1.40C	2-RC-498/2-RC-H001	The support was identified with a bent U-clamp, three nuts having improper thread engagement and moderate degradation of support plate. Engineering determined that the bent U-clamp and minor surface oxidation of the support plate have no impact on the ability of the support to perform its intended function. The three nuts with improper thread engagement do not have any affects on the support. No corrective measures required. (CR357478, CA152446).
AUG, AUG-25*	4-RC-314/1-10	Two linear indications were identified on the subject weld (one 0.8" in the weld toe, and one 0.7" linear on the center line). The indications were removed using a controlled mechanical removal technique. Engineering evaluation results showed that the structural integrity of the line is acceptable (CEM-0055). Expanded scope examinations were required as a result of these indications. The expanded scope examinations were satisfactory (WO38102680871, CR357794, CA152631, CA152633) [Cross reference, RR 2009-164, Table 2]
F-A, F1.30C	6-WAPD-102/2-WAPD-H002	The spring support load exceeded the 10% criteria. Engineering reviewed the support and pipe stress calculations, and conducted conservative assessment of the piping configuration and determined the setting would have no adverse impact on the piping, adjacent supports, or the containment penetration. Therefore, the spring can remains fully functional in the as-found condition. No corrective measures required. The support was adjusted to the designed load setting

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		(WO38102677379, CR357433). [Cross reference, RR 2009-165, Table 2]
Owner Commitments Areas adjacent to RHR Heat Exchanger shell weld ASME Category C-A, C1.10	RHR Heat Exchanger, 2-RH-E-1A	As-left thinned areas in the hub of the main flange (CR357130). Two separate engineering evaluations were conducted on areas adjacent to the heat exchanger shell weld (Weld 1-A02). Results of these engineering evaluations indicated that all excavated areas were acceptable. (CEM-0004, SIA0901311.302)
Owner Commitments RHR Heat Exchanger Reinforcement Plate Weld ASME Category C-B, C2.31	RHR Heat Exchanger, 2-RH-E-1A, Reinforcement Plate Weld 1-A05	As-left thinned areas in the reinforcement plate weld. Engineering evaluation indicated that all excavated area for the subject weld was acceptable. (CEM-0004, CR357130)
IWA-5250 System Leakage Test Program	RHR/02-RH-MOV-2700	Valve 02-RH-MOV-2700 was identified as having a dry boric acid at the body bonnet joint. An engineering evaluation using Code Case N-566-2 showed that the structural integrity of the valve will be maintained (CR355932, CA151508)).
F-A, F1.10A	10-RH-117/2-RH-H009A	The subject support was identified with a bent rod. Engineering reviewed the result of the examination and determined that the bent rod had no impact on the ability of the support to perform its intended function. No corrective measures required. (CR357488).
C-F-1, C5.30	2-SI-274/1-25	While performing a surface examination on the subject weld, two rejectable indications were found (on the base metal of the elbow). The indications were removed using a controlled mechanical removal technique. Per ASME XI Code Interpretation, XI- 1-95-42, no scope expansion was required (WO38102683896, CR358151, CA152785) [Cross reference, RR 2009-167, Table 2]
F-A, F1.10C	2-CH-387/2-CH-H001	The support was identified with a load indicator plate being misaligned and binding on the can body. Engineering reviewed the examination result and determined

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		<p>that the load indicator rotation has not exhibited signs of a misalignment that would affect the function of the support. Material loss on the load indicator does not adversely affect the support. As a result, the support is acceptable as is. No corrective measures required. (CR356247)</p>
<p>Owner Commitment RHR System 02-RH--33-VALVE off Line 14"-RH-I 18-602</p>	<p>14-RH-118-602/2-RH-33 Valve</p>	<p>A through-wall leak was indentified at the valve to pipe socket weld. Based on visual observation, the pin hole leak appears to be due to workmanship and localized, and has not propagated.</p> <p>An engineering calculation showed that a pinhole flaw of this nature in the toe of the weld will not adversely impact the structural integrity of the piping system (CA156797, ACE017868, CEM0049) [Cross reference, RR 2009-137, Table 2]</p>

* Augmented examination exempted from ANII. Expanded scope was required as a result of indications.

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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**	2-RC-PP-4-RC-PIPE-315-1502 (2-RC-H032)	Repair Weld	11/17/2009	2009-148
1**	4-RC-314-1502	Repair Weld by Grinding	12/07/2009	2009-164
2	2-RH-E-1B	Repair Welds	11/16/2009	2009-045
2**	2-RH-33	Appendix IX - Mechanical Clamp ***	11/14/2009	2009-137
2	2-RH-E-1B	Replace Elbow	11/24/2009	2009-113
2	SI-274-1502	Repair Weld by Grinding	01/06/2010	2009-167
2	2-RH-E-1A	Weld Repair	01/14/2010	2009-044
2	2-FW-PP-WSPD-PIPE-117-601	Repair Hanger	12/18/2009	2009-157
2	1-CC-E-1D	Weld Repair	12/08/2009	2009-139
3**	2-FW-PP-6.00-WAPD-PIPE-102-601	Adjust Support Cold Load Setting	11/23/2009	2009-165
3	2-SW-PP-3-WS-PIPE-2-9107	Replace Fiberglass Pipe	01/14/2010	2009-171

** Cross reference Table 1

*** Correct through-wall leak