

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

AUG 10 2018

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

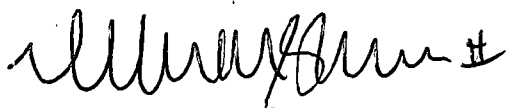
Serial No. 18-302  
SPS-LIC/CGL R0  
Docket No. 50-280  
License No. DPR-32

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

In accordance with the requirements of ASME Code Case N-532-5, Virginia Electric and Power Company (Dominion Energy Virginia) hereby submits the Inservice Inspection Owner's Activity Report (Form OAR-1) for Surry Unit 1 refueling outage S1R28, which ended on May 31, 2018. This document contains the reporting requirements for the first refueling outage of the second period in the fifth ten-year inservice inspection interval for Surry Unit 1.

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

Sincerely,



Robert M. Garver II  
Director - Station Safety & Licensing  
Surry Power Station

Attachment: Owner's Activity Report (Form OAR-1), Surry Unit 1 Refueling Outage S1R28, Second Period of the Fifth ISI Interval

Commitments made in this letter: None

A047  
NRR

cc: U.S. Nuclear Regulatory Commission  
Region II  
Marquis One Tower  
245 Peachtree Center Avenue NE  
Suite 1200  
Atlanta, Georgia 30303-1257

Ms. K. R. Cotton Gross  
NRC Project Manager – Surry  
U. S. Nuclear Regulatory Commission  
One White Flint North  
Mail Stop 08 G-9A  
11555 Rockville Pike  
Rockville, Maryland 20852-2738

Mr. R. J. Hall  
NRC Senior Project Manager – North Anna  
U. S. Nuclear Regulatory Commission  
One White Flint North  
Mail Stop 08 G-9A  
11555 Rockville Pike  
Rockville, Maryland 20852-2738

NRC Senior Resident Inspector  
Surry Power Station

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

Serial No.: 18-302  
Docket No.: 50-280

**ATTACHMENT**

**OWNER'S ACTIVITY REPORT (FORM OAR-1),  
SURRY UNIT 1 REFUELING OUTAGE S1R28,  
SECOND PERIOD OF THE FIFTH ISI INTERVAL**

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

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

Report Number 1-5-2-1 (Unit 1, 5th Interval, 2nd Period, 1st Report)  
Plant Surry Power Station, 5570 Hog Island Road, Surry, VA 23883  
Unit No. 1 Commercial service date 12/22/1972 Refueling outage no. S1R28  
(if applicable)  
Current inspection interval 5th  
(1st, 2nd, 3rd, 4th, other)  
Current inspection period 2nd  
(1st, 2nd, 3rd)  
Edition and Addenda of Section XI applicable to the inspection plans 2004 Edition  
Date and revision of inspection plans Surry Unit 1, 5th Interval ISI Plan, Revision 3 April 11, 2018  
Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans N/A  
Code Cases used for inspection and evaluation: See Surry Unit 1, 5th Int. ISI Plan, Rev.3 Section 6 for complete list of code cases  
(if applicable, including cases modified by Case N-532 and later revisions)

**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 S1R28 conform to the requirements of Section XI. (refueling outage number)

Signed *K.J. Mitchell* / ISI Program Owner Date 8/1/18  
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 employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut 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.

*R. Smith* Commissions NB-7933 NS, IS; VA883(R)  
Inspector's Signature National Board, State, Province, and Endorsements

Date 8/02/18

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 Number	Item Description	Evaluation Description
C-A, C1.10	1-RC-E-1B.1 Weld 2-06 Steam Generator Girth Weld	Indication outside of ASME XI acceptance criteria; confirmed to remain within Westinghouse Fracture Mechanics Evaluation dated June 24, 1986 (Condition Report # 1097832). Applied Code Case N-586-1 to address scope expansion; indication was determined to be fabrication related and not service induced.

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

**N-532-5**

**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-RC-PP-2.00-RC-PIPE-53-1502	Replace missing fastener. Rejectable condition identified during an ASME Section XI VT-3 examination.	5/16/2018	2018-104
1	01-RC-PP-2.00-RC-PIPE-56-1502	Replace pipe as an unacceptable indication was found during MRP-146 examination.	5/6/2018	2018-088
1	01-SI-PP-2.00-SI-PIPE-81-1502	During an Augmented surface examination of a pipe to weld-o-let, unacceptable indications were found. Clear indications and weld repair.	5/7/2018	2018-093
2	01-CH-PP-0.50-CH-PIPE-236-152	Fabricate and install a pipe clamp in accordance with ASME Section XI Article IX for a through-wall leak.	3/19/2017	2017-056
2	01-RH-PP-10.00-RH-PIPE-7-602	Remove unacceptable indications found during an Augmented examination.	5/1/2018	2018-089
3	01-SW-PP-24.00-WS-PIPE-30-10	Perform weld repair on a through-wall hole in RS SW piping upstream of 1-SW-MOV-104C.	5/12/2018	2018-108
CC	01-BS-BLD-CONT-BLDG	Perform concrete repairs. The location was a soft area (12" x 6") that was found below the SE lightning arrestor.	7/19/2016	2016-054*
CC	01-BS-BLD-CONT-BLDG	Perform concrete repairs where a stud/nut was found embedded in the concrete.	7/19/2016	2016-053*
CC	01-BS-BLD-CONT-BLDG	Perform concrete repairs. The location was a spall (3" x 8" x 1" deep) with loose material.	7/14/2016	2016-052*
CC	01-BS-BLD-CONT-BLDG	Perform concrete repairs. Loose material existed at a construction joint (excavated area is 7" x 15" x 4" deep).	7/18/2016	2016-051*

\*The July 2016 dates are when the repairs were completed. The associated work orders were closed in July 2017 following documentation of the evaluations and repairs in an engineering technical evaluation.