

*Designated  
Original*

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

August 18, 2006

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

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

As allowed by ASME Code Case N-532-1, "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 1 refueling outage S1R20 is enclosed. This document contains reporting requirements for the first period of the fourth ten-year inservice inspection interval for Surry Unit 1 from December 4, 2004, through the duration of the S1R20 refueling outage completed on May 27, 2006. The first period ends on October 13, 2006.

Should you have any questions regarding this submittal, please contact Mr. Gary Miller at (804) 273-2771.

Very truly yours,



Gerald T. Bischof  
Vice President - Nuclear Engineering

Attachment:

1. S1R20 Owner's Activity Report (Form OAR-1)

Commitments made in this letter: None

A047

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 1 Refueling Outage S1R20**

**First Period of the Fourth Ten-Year ISI Interval**

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

**SURRY POWER STATION, S1R20 OUTAGE  
FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number: 1-4-1-2 (Unit 1, 4th Interval, 1<sup>st</sup> Period, 2nd Report)

Owner: Virginia Electric and Power Company, 5000 Dominion Boulevard, Glen Allen, VA 23060

Plant: Surry Power Station, 5570 Hog Island Rd, Surry, VA 23883

Unit No. 1 Commercial service date 12/22/72 Refueling outage no. S1 R20

Current inspection interval 4<sup>th</sup>

Current inspection period 1<sup>st</sup>

Edition and Addenda of Section XI applicable to the inspection plan 1998 Edition through 2000 Addendum

Date and revision of inspection plan Surry Unit 1 4<sup>th</sup> Interval ISI Plan Revision 3, February 2006

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan N/A

**CERTIFICATE OF CONFORMANCE**

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. N/A Expiration Date N/A

Signed Ed Shore SUPV. - TESTING & INSPECTION ENGR. Date 8/8/06  
(Owner's 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 H.S.B. - CT  
of Hatford, CT

have inspected the items described in this Owner's Activity Report, during the period 12/4/04 to 5/27/06, 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 examinations, tests, repairs, replacements, evaluations and corrective measures 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 loss of any kind arising from or connected with this inspection.

Ed. Smith Commissions VA 883(R)  
Inspector's Signature National Board, State, Province, and Endorsements

Date 8/08/06

**SURRY POWER STATION  
S1R20 OUTAGE  
FORM OAR-1 OWNER'S ACTIVITY REPORT  
TABLE 1  
ABSTRACT OF EXAMINATIONS AND TESTS**

Examination Category	Total Examinations Required for The Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) For The Period	Total Examinations Credited (%) To Date for The Interval	Remarks
B-A	10	0.3	3.0%	3.0%	Note 6
B-B	5	1.3	26.0%	26.0%	
B-D	30	6	20.0%	20.0%	
B-G-1	345	88	25.5%	25.5%	Note 1
B-G-2	95	7	7.4%	7.4%	Note 1
B-K	28	6.3	22.5%	22.5%	
B-L-1	1	0	0%	0%	Note 6
B-L-2	1	0	0%	0%	Note 1
B-M-2	7	1	14.3%	14.3%	Note 1
B-N-1	3	1	33.3%	33.3%	
B-N-2	1	0	0%	0%	Note 6
B-N-3	1	0	0%	0%	Note 6
B-O	3	0	0%	0%	Note 6
B-P	7	2	28.6%	28.6%	Note 2
B-Q	9	2	22.2%	22.2%	Note 3
C-A	7	1.7	24.3%	24.3%	
C-B	15	3.3	22.0%	22.0%	
C-C	16	4	25.0%	25.0%	
C-G	36	0	0%	0%	Note 4
C-H	3	0	0%	0%	Note 5
D-A	51	12	23.5%	23.5%	
D-B	3	0	0%	0%	Note 5
F-A	277	71	25.6%	25.6%	
R-A	136	48	35.3%	35.3%	

Note 1: Many exams presently scheduled are required only if component is disassembled for maintenance. Total examinations and percentages required may change according to maintenance activities.

Note 2: The Class 1 leakage test is required to be performed every refueling outage. The numbers and percentages represent the total number of refueling outages planned for the 4<sup>th</sup> Interval. The reactor coolant system VT-2 exam, 1-PT-11, was performed on May 23, 2006.

Note 3: Total examinations required may change dependent on the S/G Eddy Current Program.

**Note 4:** Total examinations required will be determined by maintenance performed on any C-G pump. Exams are required only when a pump is disassembled for maintenance.

**Note 5:** The numbers and percentages represent the total number of periods over the inspection interval. All 1st Period Class 2 and 3 System Pressure Tests are scheduled for completion by the end of the 1st Period, October 13, 2006.

**Note 6:** Deferral is permissible.

**SURRY POWER STATION  
S1R20 OUTAGE  
FORM OAR-1 OWNER'S ACTIVITY REPORT**

**TABLE 2  
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRE EVALUATION  
FOR CONTINUED SERVICE**

<b>Exam Category</b>	<b>Item Number</b>	<b>Item Description</b>	<b>Flaw Characterization (IWA-3300)</b>	<b>Flaw or Relevant Condition Found During Scheduled Section XI Exam or Test (Yes or No)</b>
F-A	F1.30	1-WCMU-H008 Support	Loosened pipe clamp components	Yes <sup>1</sup>
B-G-2	B7.70	1-SI-147 Bolting	Thread damage	Yes <sup>2</sup>

Notes:

<sup>1</sup> Scope expanded to cover additional supports; all additional inspections were satisfactory.

<sup>2</sup> Damage occurred by wrench during maintenance activity, not a service induced flaw. Evaluated satisfactory as found. No scope expansion required.