

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**RICHMOND, VIRGINIA 23261**

January 8, 2014

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

Serial No.: 13-650  
NAPS/JHL: R0  
Docket No.: 50-338  
License No.: NPF-4

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

In accordance with the requirements of American Society of Mechanical Engineers (ASME) Code Case N-532-4, enclosed is the Owner's Activity Report (Form OAR-1), for refueling outage N1R23. This report is for the first refueling outage of the second period of the fourth inspection interval.

Should you have any questions regarding this submittal, please contact Mr. Page A. Kemp at (540) 894-2295.

Very truly yours,

  
John R. Daugherty  
Director - Nuclear Station Safety and Licensing

Commitments made in this letter: None

Attachment

A047  
NRR

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

NRC Senior Resident Inspector  
North Anna Power Station

Dr. V. Sreenivas  
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Mr. M. M. Grace  
Authorized Nuclear Inspector  
North Anna Power Station

**Attachment**

**Owner's Activity Report for North Anna Unit 1  
Refueling Outage N1R23 - Second Period of the Fourth ISI Interval**

**North Anna Power Station  
Virginia Electric and Power Company**



# Form OAR-1, Owner's Activity Report

ER-AA-ISI-100

ATTACHMENT 1

Page 1 of 3

Report Number: N1R23 (Unit 1, 4<sup>th</sup> Interval, 2<sup>nd</sup> Period)

Plant: North Anna Power Station

Unit No. 1  
(if applicable)

Commercial service date: 6/6/1978

Refueling outage no. N1R23

Current inspection interval: 4<sup>th</sup> (May 1, 2009 – April 30, 2019)  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, other)

Current inspection period: 2<sup>nd</sup> (May 1, 2012 – April 30, 2016)  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>)

Edition and Addenda of Section XI applicable to the inspection plans: 2004 Edition with No Addenda

Date and revision of inspection plans: Revision 3, February 2012

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

Code Cases used: N-432-1, N-460, N-504-4, N-526, N-532-4, N-552, N-566-2, N-583, N-586-1, N-597-2, N-613-1, N-624, N-638-4, N-641, N-658, N-661-1, N-663, N-683, N-686-1, N-696, N-706-1, N-722-1, N-729-1, N-753, N-770-1  
(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 N1R23 conform to the requirements of Section XI.  
(refueling outage number)

Signed Brian Dendberry, SUPERVISOR ISI/NDE/MATERIALS ENG. Date 1-7-2014  
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 Hartford, 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.

m A c Commissions NB 9531-A-N-I-C / VA 424-R  
Inspector's Signature National Board, State, Province and Endorsements

Date 1/7/14

**Table 1**  
**Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service**

<b>Examination Category and Item Number</b>	<b>Item Description</b>	<b>Evaluation Description</b>
C-C / C3.20	Attachment Weld 8-SI-49 / 81H Summary # N1.C3.20.080	Evaluate per CR526819 Surface flaw – allowable flaw size acceptable
F-A / F1.20C	Spring Support, SH-28 Summary # N1.F1.20.110	Evaluate per CR525372 Load indicator missing – determined acceptable
F-A / F1.20B	Restraint, R-4 Summary # N1.F1.20.118	Evaluate per CR525394 Clearance issue – meets design function
F-A / F1.20B	Restraint, R-19 Summary # N1.F1.20.136	Evaluate per CR525379 Clearance issue – meets design function
F-A / F1.20D	Snubber, 1-RH-HSS-103A Summary # N1.F1.20.393	Evaluate per CR526197 Loose pipe clamp bolt - performs design function
F-A / F1.30A	Restraint, PH-9023 Summary # N1.F1.30.172	Evaluate per CR525318 Clearance gap - meets design function
F-A / F1.10C	Spring Support, SH-9 Summary # N1.F1.10.539	Evaluate per CR525799 Thread engagement acceptable
F-A / F1.20B	Anchor, A-21 Summary # N1.F1.20.206	Evaluate per CR525431 Thread engagement acceptable
F-A / F1.40B	Anchor, A-P-3B Summary # N1.F1.40.011	Evaluate per CR525331 Thread engagement acceptable



## Form OAR-1, Owner's Activity Report

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**Table 2**  
**Abstract of Repair/Replacement Activities Required for Continued Service**

<b>Code Class</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
3	1-SW-PP-2.00-WS-PIPE-C84-153A-Q3	Replace piping due to MIC leak	10/02/2012	2012-166
3	1-SW-PP-2.00-WS-PIPE-C86-153A-Q3	Replace piping due to MIC leak	10/02/2012	2012-170
3	1-SW-PP-2.00-WS-PIPE-C86-153A-Q3	Replace piping due to MIC leak	08/28/2013	2013-080
2	1-CH-MOV-1115C-VALVE	Replace body to bonnet bolting due to inactive boric acid leak.	10/09/2013	2013-145
2	1-QS-HSS-209B	Replace snubber due to low fluid level	10/06/2013	2013-148
1	1-RC-HSS-819	Replace snubber due to low fluid level	10/06/2013	2013-122
2	1-SI-18	Replace check valve bolting due to failed inspection	10/04/2013	2013-141
2	1-MS-96	Replace check valve bolting due to failed inspection	11/22/2013	2013-143