

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

July 18, 2012

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

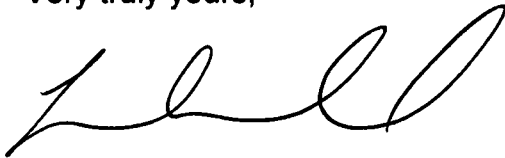
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VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNIT 1
OWNER'S ACTIVITY REPORT

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 N1R22. This report is for the second refueling outage of the first period of the fourth inspection interval.

Should you have any questions regarding this submittal, please contact Mr. Donald R. Taylor at (540) 894-2616.

Very truly yours,



F. Mladen
Director - Nuclear Station Safety and Licensing

Commitments made in this letter: None

Attachment

A047
N1R2

cc: U.S. Nuclear Regulatory Commission
Region II
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NRC Senior Resident Inspector
North Anna Power Station

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Mr. M. M. Grace
Authorized Nuclear Inspector
North Anna Power Station

Attachment

**Owner's Activity Reports for North Anna Unit 1
Refueling Outage N1R22 - First 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

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Report Number: N1R22 (Unit 1, 4th Interval, 1st Period)Plant: North Anna Power StationUnit No. 1
(if applicable)Commercial service date: 6/6/1978Refueling outage no. N1R22Current inspection interval: 4th (May 1, 2009 – April 30, 2019)
(1st, 2nd, 3rd, 4th, other)Current inspection period: 1st (May 1, 2009 – April 30, 2012)
(1st, 2nd, 3rd, 4th)Edition and Addenda of Section XI applicable to the inspection plans: 2004 Edition with No AddendaDate and revision of inspection plans: Revision 3, February 2012Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans N/ACode Cases used: N-432-1, N-460, N-504-4, N-526, N-532-4, N-552, N-566-2, N-586-1, N-597-2, N-613-1, N-619, N-624, N-638-4, N-641, N-648-1, N-651, N-658, N-661-1, N-663, N-683, N-686-1, N-695, N-696, N-706-1, N-722-1, N-729-1, and 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 N1R22 conform to the requirements of Section XI.
(refueling outage number)

Signed Brian Danahy, SUPERVISOR ISI/MATERIALS ENG. Date 7-12-12
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 GS 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.

Inspector's Signature [Signature] Commissions NB 9531-IS-N-I-C / VA 424-R
National Board, State, Province and EndorsementsDate 12 July 2012

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 / F1.10D | Snubber 1-RC-HSS-838 Summary # N1.F1.10.219 | Evaluate per CR469820 for loose jam nut – does not impact design function. |
| F-A / F1.20D | Snubber, 1-RC-HSS-112 Summary # N1.F1.10.487 | Evaluate per CR470000 for little off axis movement due to adjacent 2" CC line. No functional issues found. |
| F-A / F1.10D | Snubber, 1-RC-HSS-102 Summary #N1.F1.10.505 | Evaluate per CR470542 for cold piston setting out of tolerance. Found excess margin built in, able to perform design function. |
| F-A / F1.10C | Spring hanger SH-37 Summary #N1.F1.10.455 | Evaluate per CR443144 for loose bolt on riser clamp. Minor deficiency with no impact on design function. |
| F-A / F1.30A | Spring hanger A-3.1 Summary #N1.F1.30.118 | Evaluate per CR443359 for out of tolerance spring setting. Still within working range and meeting design function. |
| F-A / F1.10D | Snubber HSS-818 Summary #N1.F1.10.307 | Evaluate per CR470675 for misalignment. Drawing change to accept given alignment. |
| F-A / F1.10D | Snubber HSS-115B Summary #N1.F1.10.465 | Evaluate per CR466039 for rejectable conditions all found acceptable. Meeting design function. |
| F-A / F1.10D | Snubber HSS-119A Summary #N1.F1.10.467 | Evaluate per CR466042 for contact with insulation – found meeting design function. |
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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 |
|------------|-------------------|--|----------------|--------------------------------|
| MC | 1-CE-EH-1-ACCESS | Repair damaged bolt chairs on equipment hatch. | 05/03/12 | 2010-248 |
| 3 | 1-SW-639 | Replace valve due to pinhole leak in valve body. | 12/14/10 | 2010-252 |
| 1 | 1-RC-MOV-1535 | Replace bolting due to contact with boric acid. | 12/14/11 | 2011-089 |
| 3 | 1-HV-E-6B-1 | Repair heat exchanger tube leak. | 09/18/11 | 2011-094 |
| 1 | 1-RC-HSS-818 | Replace snubber due to low fluid. | 09/12/11 | 2011-093 |
| CC | 1-BLD-BLD-RC-BLDG | Repair containment concrete. | 09/28/11 | 2011-097 |
| 2 | 1-MS-HSS-211B | Replace snubber due to low fluid. | 09/23/11 | 2011-103 |
| 2 | 1-MS-HSS-200 | Replace snubber due to low fluid. | 09/21/11 | 2011-105 |
| 1 | 1-CH-HSS-808 | Replace snubber due to low fluid. | 09/19/11 | 2011-106 |
| 3 | 1-CC-845 | Install clamp per Appendix IX to stop leak at socket weld. | 11/09/11 | 2011-166 |
| 3 | 1-HV-E-6A | Repair pinhole leak in tubing. | 11/16/11 | 2011-167 |
| 3 | 2"-CH-41-153A-Q3 | Replace piping due to through wall leak. | 03/23/12 | 2011-175 |
| 1 | 1-SI-86 | Replace bolting due to contact with boric acid. | 04/16/12 | 2012-081 |
| 1 | 1-RC-HSS-827 | Replace snubber. | 04/28/12 | 2012-089 |

**Dominion****Form OAR-1, Owner's Activity Report**

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| Code Class | Item Description | Description of Work | Date Completed | Repair/Replacement Plan Number |
|------------|------------------|---|----------------|--------------------------------|
| 1 | 1-RC-E-1B | Repair/Seal of 'B' S/G Nozzle-to-Safe End DM Weld | 05/31/12 | 2012-090 |
| 1 | 1-RC-E-1B | Repair of "B" S/G Nozzle-to-Safe End Weld | 04/06/12 | 2012-095 |
| 1 | 1-RC-MOV-1595 | Replace bolting due to degraded threads. | 05/10/12 | 2012-112 |