

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

July 18, 2012

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

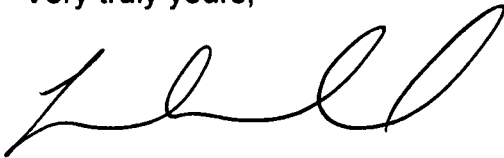
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VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNIT 1
OWNER'S ACTIVITY REPORT

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 Station

Unit No. 1 Commercial service date: 6/6/1978 Refueling outage no. N1R22
(if applicable)

Current 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 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-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 Brain 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.

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

Date 12 July 2012



Form OAR-1, Owner's Activity Report

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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