

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 6, 2015

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

Serial No.: 14-597
NAPS/JHL: R0
Docket No.: 50-339
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VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNIT 2
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 N2R23. 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,



Lisa Hilbert
Director - Nuclear Station Safety and Licensing

Commitments made in this letter: None

Attachment

A047
N2R

cc: U.S. Nuclear Regulatory Commission
Region II
Marquis One Tower
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Atlanta, Georgia 30303-1257

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 Report for North Anna Unit 2
Refueling Outage N2R23 - 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

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Report Number: N2R23 (Unit 2, 4th Interval, 2nd Period)

Plant: North Anna Power Station

Unit No. 2 Commercial service date: 12/14/1980 Refueling outage no. N2R23
(if applicable)

Current inspection interval: 4th (December 14, 2010 - December 13, 2020)
(1st, 2nd, 3rd, 4th, other)

Current inspection period: 2nd (December 14, 2013 - December 13, 2017)
(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 2, February 2013

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 N2R23 conform to the requirements of Section XI.
(refueling outage number)

Signed Brian Danenberg, Supervisor ISI/NDE/Materials Date 1-6-2015
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.

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

Date 1/6/15



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

Examination Category and Item Number	Item Description	Evaluation Description
C-C / C3.20	Attachment Weld SW-92 Summary # N2.C3.20.002	Evaluate per CR559370 Surface flaws – allowable flaw size acceptable
F-A / F1.10B	Anchor, 2-CH-A-5 Summary # N2.F1.10.366	Evaluate per CR558013 1 loose nut – determined acceptable (then corrected)
F-A / F1.20A	Restraint, 2-SHP-R-216 Summary # N2.F1.20.003	Evaluate per CR559064 Missing washer – meets design function



Form OAR-1, Owner's Activity Report

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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
3	02-SW-624	Repair valve and replace piping due to through wall MIC leak at weld	7/9/2013	2013-076
2	02-MS-PP-32.00-SHP-PIPE-401-601-Q2	Repair rejectable linear indication found on attachment weld	12/22/2014	2014-104
2	02-MS-PH-R-403.214	Add structural welds to resolve concerns about the load capacity of the support	11/10/2014	2014-105
2	02-MS-PH-R-402.215	Add structural welds to resolve concerns about the load capacity of the support	11/10/2014	2014-106
2	02-MS-PH-R-401.216	Add structural welds to resolve concerns about the load capacity of the support	11/10/2014	2014-107



Form OAR-1, Owner's Activity Report

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FORM N-711-A

Abstract of Welds Satisfying Alternative Examination Coverage of Case N-711

Examination Category	Weld Number	Weld Description	Percent Coverage	Description of Limitation
R-A/R1.20	SW-19 (BPL 178)	Pipe to Weld-o-let, Feedwater Flow Control Valve Bypass	75%	Single-sided exam – no upstream circumferential exam on branch connection side.
R-A/R1.20	20	Elbow to Pump, Reactor Coolant cold leg to Reactor Coolant Pump	88%	Single-sided exam – no exam for 48% of the downstream side in the axial direction due to configuration.
C-F-1/C5.11 (R-A/LSS)	7	Valve to Pipe, Charging Pump Suction	50%	Single-sided exam Preservice Inspection (PSI)
C-F-1/C5.11 (R-A/LSS)	5	Pipe to Valve, Charging Pump Suction	50%	Single-sided exam (PSI)
C-F-1/C5.11 (R-A/LSS)	4	Flange to Tee, Quench Spray Beyond Design Basis Connection	69.5%	Single-sided exam and branch connection (PSI)
C-F-1/C5.21 (R-A/LSS)	2	Valve to Elbow, High Pressure Safety Injection Beyond Design Basis Connection	44.3%	Single-sided exam – configuration and intrados of elbow (PSI)
C-F-1/C5.21 (R-A/LSS)	3	Pipe to Valve, High Pressure Safety Injection Beyond Design Basis Connection	50%	Single-sided exam (PSI)
C-F-1/C5.21 (R-A/LSS)	12	Flange to Pipe, High Pressure Safety Injection Beyond Design Basis Connection	50%	Single-sided exam (PSI)