

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 16, 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 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 N2R21. This report is for the first 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,


James R. Schleser
For

F. Mladen
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

Mr. J. E. Reasor, Jr.
Old Dominion Electric Cooperative
Innsbrook Corporate Center
4201 Dominion Blvd.
Suite 300
Glen Allen, Virginia 23060

Dr. V. Sreenivas
NRC Project Manager
U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop O-8 G9A
Rockville, MD 20852-2738

Ms. K. R. Cotton
NRC Project Manager
U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop O-8 G9A
Rockville, MD 20852-2738

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

Attachment

**Owner's Activity Reports for North Anna Unit 2
Refueling Outage N2R21 - First Period of the Fourth ISI Interval**

Virginia Electric and Power Company (Dominion)



Form OAR-1, Owner's Activity Report

ER-AA-ISI-100

ATTACHMENT 1

Page 1 of 4

Report Number: N2R21 (Unit 1, 4th Interval, 1st Period)Plant: North Anna Power StationUnit No. 2
(if applicable)Commercial service date: 12/14/1980Refueling outage no. N2R21Current inspection interval: 4th (December 14, 2010 - December 13, 2020)
(1st, 2nd, 3rd, 4th, other)Current inspection period: 1st (December 14, 2010 - December 13, 2013)
(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 1, February 2011Edition 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-504-3, N-526, N-532-4, N-552, N-566-2, N-586-1, N-597-2, N-613-1, N-624, N-638-1, N-641, N-651, N-658, N-661, N-663, N-683, N-696, N-706-1, N-722, and N-729-1
(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 N2R21 conform to the requirements of Section XI.
(refueling outage number)

Signed

Brian Dancy
Owner or Owner's Designee, TitleDate 2-9-12

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.

Inspector's Signature

M HCommissions NB 9531-A-N-I-C / VA 424-R

National Board, State, Province and Endorsements

Date 13 Feb 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 / F1.40A	H-603A Sway Strut for 2-SI-P-1B Summary # N2.F1.40.090	Eval per CR442495 for improperly seated snap ring does not impact the ability of the support to perform its design function in both normal or abnormal conditions.
F-A / F1.20D	Snubber, 2-SI-HSS-809B Summary # N2.F1.20.119	2 nd PSI found missing spacers, eval by CR442392 verified that missing spacer does not impact ability of snubber to perform its function or provide support.
F-A / F1.10D	Snubber 2-SI-HSS-421.02 Summary # N2.F1.10.095	CR442784, missing spacer on piston rod clevis pin, verified that missing spacer does not impact ability of snubber to perform its function or provide support.
F-A / F1.20D	Snubber 2-RH-HSS-102 Summary # N2.F1.20.371	CR443946, loose bolt on pipe clamp, low fluid, tested SAT, no slipping, evaluated as functional. Performed additional examinations – SAT.
B-K / B10.20	Attachment Weld 12H Summary # N2.B10.20.001	CR444219, Relevant indication found. CC N-586-1 evaluation, construction flaw at surface. Ground out, tested SAT.
F-A / F1.10D	Snubber 2-RC-HSS-459.01 Summary # N2.F1.10.222	CR444443, snubber & pipe clamp alignment/binding, tested SAT
B-E / B4.30	RPVH Pens #8, 15, and 23 Summary # N2.B4.30.001	CR443870, discoloration and staining, cleaned and found no degradation. Evaluated SAT.
B-E / B4.30	RPVH Pen #18 Summary # N2.B4.30.001	CR444072, canopy seal weld leakage from above, boric acid residue, no degradation
B-E / B4.30	RPVH Pen #41	CR444091, residue from canopy seal identified at pen



Form OAR-1, Owner's Activity Report

ER-AA-ISI-100

ATTACHMENT 1

Page 3 of 4

	Summary # N2.B4.30.001	#18, no degradation
F-A / F1.10C	Spring Hanger SH-1 Summary # N2.F1.10.263	CR446060, owner elected examination found loose nut, evaluated as able to perform design function
F-A / F1.20B	Restraint R-537 Summary # N2.F1.20.253	CR444413, PSI found clearance issue, evaluation determined within the standard.
F-A / F1.40B	Reactor Vessel Pad Support-5 Summary # N2.F1.40.067	CR448737, rub marks and no measurable gap on one side. No depth or displaced metal, free to move, permits thermal growth and restrains in lateral and vertical direction, meets function.

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

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
1 F-A / F1.10D	Snubber, 2-RC-HSS-455.01 Summary # N2.F1.10.486	2 nd preservice found welded lug to anchor for paddle pin bent downward, CR442774.	11/6/2011	2011-110 2011-120
3 D-B / D2.10	2"-WS-485-164-Q3 downstream of 2-SW-212	Replace 2" piping due to MIC leak at weld	11/17/2011	2011-172