

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 26, 2010

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

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Docket Nos. 50-338
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Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNITS 1 AND 2
ANNUAL ENVIRONMENTAL OPERATING REPORT

Enclosed is the Annual Environmental Operating Report for North Anna Power Station Units 1 and 2 for 2009, pursuant to Section 5.4.1 of the Technical Specifications, Appendix B – Environmental Protection Plan.

If you have any questions or require additional information, please contact Page Kemp at (540) 894-2295.

Very truly yours,



N. Larry Lane
Site Vice President

Enclosure

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

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NRR

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
UNITS 1 AND 2

APPENDIX B
ENVIRONMENTAL PROTECTION PLAN
2009 ANNUAL REPORT
DOCKET NOS. 50-338 AND 50-339

INTRODUCTION

This 2009, Environmental Operating Report for the North Anna Power Station is submitted by Virginia Electric and Power Company, as required under Section 5.4.1 of Appendix B, Environmental Protection Plan (EPP).

The objective of the EPP is to verify that the North Anna Power Station is operated in an environmentally acceptable manner, consistent with NRC and other federal, state and local requirements as well as to keep the NRC informed of any environmental effects of facility construction or operation.

During 2009, no significant adverse environmental impact occurred as a result of the operation of North Anna Power Station, Units 1 and 2. Aquatic issues are addressed in the licensee's VPDES permit (number VA 0052451) issued by the Virginia State Water Control Board. The VPDES permitting program is administered by the Department of Environmental Quality and the NRC relies on this agency for regulation of matters involving water quality and aquatic biota.

Listed below are the summaries and analyses required by Subsection 4.2 of the EPP.

PLANT DESIGN AND OPERATION (SECTION 3.1)

A review of all changes in station design or operation, tests and experiments failed to reveal any potentially, significant, unreviewed, environmental issues.

EROSION CONTROL INSPECTION - SITE (SECTION 4.2.2.1)

Performance of Periodic Test Procedure, 1-PT-9.3, Erosion Control Inspection-Station Site, by the Civil/Design Engineering Department identified four (4) areas of concern that needed corrective action. One area involved cleaning out a ditch and catch basin, located at the ISFSI, which had accumulated mud, grass, and tree debris. One area involved animal burrows, which were filled-in. Two areas involved minor erosion along fence lines and concrete storm water ditches. These areas were filled in with gravel and/or concrete. All corrective actions have been completed and none of the areas of concern impacted station safety or operability.

EROSION AND SEDIMENT CONTROL PROGRAM - CORRIDOR RIGHTS-OF-WAY
SECTION 4.2.2.2)

During 2009, all transmission line rights-of-way were patrolled to coordinate brush and tree work needed for maintenance of the lines. This work involved the following:

- North Anna-to-Gordonsville corridor: The patrol revealed that there was no significant tree or brush work needed. No significant erosion was observed.
- North Anna-to-Morrisville corridor: The patrol revealed that there was significant tree and brush work needed. A contract crew began work in late July 2009 and completed the work in mid-August 2009. An inspection was done after the work was completed. No further issues were observed. No significant erosion and sedimentation issues were observed.
- North Anna to Ladysmith corridor: The patrol revealed that there was significant tree and brush work needed. A contract crew began work in mid-July 2009 and completed the work in mid-August 2009. An inspection was done after the work was completed. No further issues were observed. No significant erosion and sedimentation issues were observed.
- North Anna to Midlothian corridor: The patrol revealed that there was no significant tree or brush work needed. No significant erosion and sedimentation issues were observed.

During all of the above-noted patrols and follow-up observations, no abnormal erosion conditions were observed on any of the above corridors associated with transmission line construction, modification, maintenance activities or the use of herbicides during 2009.

NON-COMPLIANCE (SECTION 5.4.1)

There were no non-compliances with the Environmental Protection Plan during 2009.

NON-ROUTINE REPORTS (SECTION 5.4.2)

A 5-Day notification report was submitted to the Va. DEQ on 12/14/2009, due to an unauthorized discharge of bearing cooling

water to Lake Anna. The discharge was a result of a loss of a reserve station transformer, which caused Unit 2 to trip offline, which also caused a bearing cooling level control valve (LCV) to fail open, which caused the bearing cooling basin to overflow. None of the chemical parameters of the bearing cooling water exceeded any VPDES discharge limits and no adverse impact to Lake Anna occurred. There were no notices of violations or warning letters issued by the Va. DEQ due to this event.