

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 27, 2004

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

Serial No. 04-267
NAPS/JRP
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

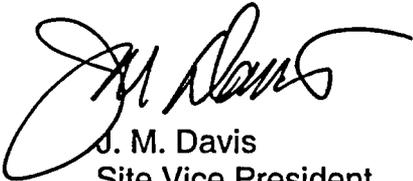
Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
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 2003, pursuant to Section 5.4.1 of the Appendix B Technical Specifications, Environmental Protection Plan.

If you have any questions or require additional information, please contact us.

Very truly yours,



J. M. Davis
Site Vice President

Enclosure

cc: U. S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303

Mr. M. T. Widmann
NRC Senior Resident Inspector
North Anna Power Station

IE25

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

UNITS 1 AND 2

APPENDIX B

ENVIRONMENTAL PROTECTION PLAN

2003 ANNUAL REPORT

DOCKET NOS. 50-338 AND 50-339

INTRODUCTION

This 2003 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 objectives of the EPP are to verify that the power station is operated in an environmentally acceptable manner, to coordinate NRC requirements, maintain consistency with other federal, state and local requirements, and to keep the NRC informed of the environmental effects of facility construction and operation. During 2003, 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-Water Division and the NRC relies on this agency for regulation of matters involving water quality and aquatic biota. Listed below are the summaries and reports as required under Section 5.4.1 of the EPP.

PLANT DESIGN AND OPERATION (SECTION 3.1)

There were no changes in station design and operation proposed in 2003 that involved a potentially significant unreviewed environmental issue.

EROSION CONTROL INSPECTION - SITE (SECTION 4.2.2.1)

An on-site erosion control inspection was performed at North Anna Power Station by the Civil/Design Engineering Department, Periodic Test Procedures 1-PT-9.3, Erosion Control Inspection - Station Site. Fifteen areas of concern were observed to need corrective action. None impacted operability or safety. Nine were to repair eroded areas and reseed, two were to repair silt fences, two were to correct drainage problems and two were to repair potholes/paving. All corrective actions have been completed. Eroded areas were prepared, seeded and covered with an erosion blanket where necessary, silt fences were restored, correct drainage patterns were re-established, potholes and broken paving areas were packed with gravel.

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

Erosion inspections were made on the following corridor rights-of-way during 2003: North Anna - Midlothian; North Anna - Morrisville; North Anna - Gordonsville; and North Anna - Ladysmith. All locations where significant erosion was taking place have been addressed.

NONCOMPLIANCE (SECTION 5.4.1)

There were no Environmental Protection Plan occurrences of noncompliance during 2003.

NONROUTINE REPORTS (SECTION 5.4.2)

There was one instance of non-compliance with the VPDES permit. In October the station exceeded the free available chlorine monthly average for the bearing cooling tower (letter to DEQ attached).

Pamela F. Faggert
Vice President and Chief Environmental Officer
5000 Dominion Boulevard, Glen Allen, VA 23060
Phone: 804-273-3467



Dominion

Certified Mail
Return Receipt Requested

November 7, 2003

Mr. Jeffrey S. Talbot
DEQ – Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453

RE: North Anna Power Station – VPDES Permit Exceedance

Dear Mr. Talbot:

This is to confirm our verbal report of an exceedance of the effluent limitations in our VPDES permit for North Anna Power Station.

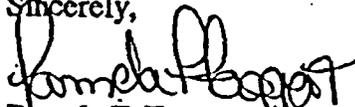
The concentration of free available chlorine in the bearing cooling tower blowdown (Outfall 105) is limited to a maximum of 0.5 mg/l and a monthly average of 0.2 mg/l. The average concentration of free available chlorine for October 2003 was determined to be 0.36 mg/l. Only one sample was collected during the month. Station personnel did not run the test for manganese interference for this chlorine sample which, historical data indicate, would have lowered the actual chlorine value considerably.

An investigation by station personnel failed to reveal the cause of the high reading. Both the bearing cooling tower and chlorine feed system were being operated in accordance with established procedures. Once the exceedance was realized, a sample was taken to ensure the tower was in compliance at this time and the free available chlorine value was less than the QL.

The bearing cooling tower blowdown has a long history of compliance with the VPDES limitations. Since station personnel were not able to determine any irregularity in operations, this is believed to be an isolated incident. Procedures have been instituted to prevent a similar incident from occurring again.

If you have any questions or desire additional information, please contact Ron Birkhead at (804) 273-2992.

Sincerely,


Pamela F. Faggert



Memorandum

April 1, 2004

To: J. M. Davis
Location: North Anna Power Station
From: P. F. Faggert
Location: Electric Environmental Services

**North Anna Power Station
Environmental Protection Plan - 2003 Report**

The 2003 Annual Report for the Environmental Protection Plan, as required by Section 5.4.1, Appendix B of the Plan, has been reviewed by Electric Environmental Services. The report is accurate and complete to the best of our knowledge and is provided to you for submission to the nuclear regulatory agency prior to May 1, 2004.

Should you have any questions, please contact Ron Birckhead at 8-730 - 2992.

P. F. Faggert

attachment

cc: (w/attachment)

D. E. Jernigan

N. L. Lane -NAPS

J. W. Crossman -NAPS

A. C. Cooke -NAPS *ACC per preparation*

C. C. Taylor

J. W. White

R. L. Birckhead *RLB*

File - North Anna/ENV14/Env. Pro. Plan