

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

April 21, 1997

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

Serial No. 97-244  
NAPS/JHL  
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**

Pursuant to Section 5.4.1 of the Appendix B Technical Specifications, Environmental Protection Plan, enclosed is the Annual Environmental Operating Report for North Anna Power Station Unit Nos. 1 and 2 for 1996.

No new commitments are intended as a result of this letter. If you have any questions or require additional information, please contact us.

Very truly yours,



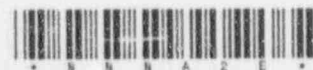
S. P. Sarver, Acting Manager  
Nuclear Licensing and Operations Support

Enclosure

cc: U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, N. W.  
Suite 2900  
Atlanta, Georgia 30323

NRC Senior Resident Inspector  
North Anna Power Station

9704280089 961231  
PDR ADOCK 05000338  
R PDR



C001/1

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

UNITS 1 AND 2

APPENDIX B

ENVIRONMENTAL PROTECTION PLAN

1996 ANNUAL REPORT

DOCKET NOS. 50-338 AND 50-339

## INTRODUCTION

This 1996 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 1996, 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 1996 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 beginning November 4, 1996 and ending on December 16, 1996, according to Periodic Test Procedures 1-PT-9.3, Erosion Control Inspection - Station Site. Erosion was minor or non-existent in most areas, however, three areas were determined to require remedial attention. Some erosion was noted beside the road below the former in-processing center, this ditch was filled in and covered with asphalt. The concrete downcomer along the East side of the old Unit Three intake was noted to have fallen in. The concrete was removed, new fill compacted and the area covered with a geomembrane. A concrete curb was constructed above this area and tied into existing curbs on either end to prevent future erosion. Some new erosion was noted in the borrow pit area, erosion ditches were filled in and the existing straw bale/fabric siltation fence was restored.

#### 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 1996: North Anna - Midlothian; North Anna - Morrisville; North Anna - Gordonsville; and North Anna - Ladysmith. There were no locations recorded on these lines where significant erosion had occurred. No herbicides were used in these areas during 1996.

NONCOMPLIANCE (SECTION 5.4.1)

There were no Environmental Protection Plan occurrences of noncompliance during 1996.

NONROUTINE REPORTS (SECTION 5.4.2)

There was one nonroutine event during 1996 which resulted in three VFDES exceptions. This event was the result of a Unit 1 reactor trip previously reported in LER Report No.50-338/96-005-00. The cover letter for the Discharge Monitoring Reports (DMR's) for that month and the applicable DMR are attached (pages 4-6).

September 5, 1996

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED



VIRGINIA POWER

Department of Environmental Quality  
Water Regional Office  
116 North Main Street  
P. O. Box 268  
Bridgewater, Virginia 22812

Gentlemen:

Re: NORTH ANNA POWER STATION - DISCHARGE MONITORING REPORT  
FOR AUGUST 1996.

Attached is the original of the August 1996 Discharge Monitoring Report for North Anna Power Station.

This report is required by and prepared specifically for the Virginia Department of Environmental Quality. It represents truly, accurately, and completely the observed results of measurements and analyses required by the State to be performed and submitted, but only such results. It is not intended as an assertion of the accuracy of any instrument, reading or analytical result, nor is it an endorsement of the suitability of any analytical or measurement procedure.

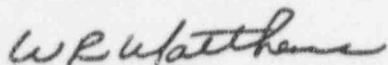
The following information is presented as required by part II, Section F.2. of VPDES permit No. VA0052451 concerning outfall 013.

The turbine building sump high-volume sump pumps were utilized for a total of eleven minutes between 1130 hours and 1300 hours on August 27, 1996 in response to turbine building sump high levels. Approximately 9,900 gallons of water was discharged through outfall 013, the permitted outfall for these pumps. Samples were taken as required (at 1206 hours) with the following results outside of permit limits: pH -- 9.13 SU, and oil and grease -- 24.6 mg/L (see DMR for outfall 013). The turbine building sumps normally discharge through outfall 104 after being processed through an oil separator with pH taken at the end of the discharge canal.

The turbine building sump high levels were a result of a Unit 1 reactor trip and subsequent malfunction of several relief valves to reseal properly, increasing the amount of leak-by water into the sumps. This is the first time these pumps have been used in more than five years and their future use is neither planned nor anticipated. All mechanical problems with the relief valves have been corrected and future problems of this magnitude are not anticipated.

If you have any questions or desire additional information concerning this submittal, please contact Mr. Carter Cooke at (540) 894-2856.

Sincerely,

A handwritten signature in cursive script, appearing to read "W R Matthews".

W. R. Matthews  
Station Manager

bc: w/attachment

J. K. Puckett - IN-1E  
A. C. Cooke  
D. L. Huffman



PERMITTEE NAME/ADDRESS(INCLUDE  
FACILITY NAME/LOCATION IF DIFFERENT)

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)  
DISCHARGE MONITORING REPORT (DMR)

INDUSTRIAL MAJOR

08/

DEPT. OF ENVIRONMENTAL QUALITY  
(REGIONAL OFFICE)

NAME VEPCO-NORTH ANNA  
ADDRESS 5000 DOMINION BOULEVARD  
GLEN ALLEN, VA 23060

VA0052451  
PERMIT NUMBER

013  
DISCHARGE  
W-0000

VALLEY REGIONAL OFFICE  
P. O. BOX 268  
BRIDGEWATER, VA. 22812  
540-828-2595

FACILITY  
LOCATION

FILE NO. 22-4740.

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
96	08	01	96	08	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS  
BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY of ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	0.0099	0.0099	MGD	*****	*****	*****		0	1/M	EST
	PERMIT REQUIREMENT	NL	NL		*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****		9.13	*****	9.13	SU	1	1/M	GRAB
	PERMIT REQUIREMENT	*****	*****		6.0000	*****	9.0000			1/M	GRAB
004 TOTAL SUS.SOLIDS	REPORTED	*****	*****		*****	25.5	25.5	MG/L	0	1/M	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	30.0000	100.0000			1/M	GRAB
500 OIL & GREASE	REPORTED	*****	*****		*****	24.6	24.6	MG/L	2	1/M	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	15.0000	20.0000			1/M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS:

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M.G.)	TOTAL BOD5 (KG)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	N/A	N/A	N/A	D. L. HUFFMAN	<i>Don Huffman</i>	1911-003220	96	09	05
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
				D. A. HEACOCK	<i>D. A. Heacock</i>	540 894-2108	96	09	05
				TYPED OR PRINTED NAME	SIGNATURE	AREA CODE	NUMBER	YEAR	MO DAY

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. - 1001 AND 33 U.S.C. - 1319. (PENALTIES UNDER THESE STATUTES MAY INCLUDE FINES UP TO \$10,000 AND OR MAXIMUM IMPRISONMENT OF BETWEEN 6 MONTHS AND 5 YEARS.)

STATE OF VIRGINIA