

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**RICHMOND, VIRGINIA 23261**

May 11, 2001

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

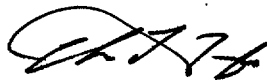
Serial No. 01-290  
NAPS/JHL  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNIT NOS. 1 AND 2**  
**MONTHLY OPERATING REPORT**

Enclosed is the April 2001 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,



D. A. Heacock  
Site Vice President

Enclosure

Commitments made in this letter: None.

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

Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

JE24

**VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT  
APRIL 2001**

Approved:

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\_\_\_\_\_  
Site Vice President

5-11-01  
Date

# OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 05/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 1
2. Reporting Period: ..... April 2001
3. Licensed Thermal Power (MWt): ..... 2,893
4. Nameplate Rating (Gross MWe): ..... 979.74
5. Design Electrical Rating (Net MWe): ..... 907
6. Maximum Dependable Capacity (Gross MWe): ... 971
7. Maximum Dependable Capacity (Net MWe): ..... 925
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
 N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A

10. Reasons For Restrictions, If Any: N/A

	This Month	Year-To-Date	Cumulative
11. Hours in Reporting Period	719.0	2,879.0	200,363.0
12. Hours Reactor Was Critical	719.0	2,879.0	161,146.4
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,239.5
14. Hours Generator On-Line	719.0	2,879.0	157,897.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,077,023.5	8,315,700.1	429,637,542.7
17. Gross Electrical Energy Generated (MWH)	705,009.0	2,819,668.0	178,684,384.0
18. Net Electrical Energy Generated (MWH)	672,287.0	2,688,788.0	134,387,565.0
19. Unit Service Factor	100.0%	100.0%	78.8%
20. Unit Availability Factor	100.0%	100.0%	78.8%
21. Unit Capacity Factor (Using MDC Net)	101.1%	101.0%	75.0%
22. Unit Capacity Factor (Using DER Net)	103.1%	103.0%	73.9%
23. Unit Forced Outage Rate	0.0%	0.0%	7.1%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): September 2001  
 Type and duration of scheduled shutdowns are no longer provided.  
 (Reference: Letter Serial No. 00-070, dated February 11, 2000)

25. If Shut Down at End of Report Period, Estimated Date of Start-up: N/A

26. Unit In Test Status (Prior to Commercial Operation):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 05/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: April, 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	935	17	937
2	936	18	937
3	936	19	935
4	936	20	936
5	936	21	935
6	936	22	934
7	934	23	934
8	934	24	933
9	933	25	935
10	934	26	935
11	935	27	936
12	934	28	936
13	933	29	936
14	934	30	936
15	934		
16	935		

### INSTRUCTIONS

On this format, list the average daily unit power level in MWe - Net for each day in the reporting month. Compute to the nearest whole megawatt.

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 05/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: April, 2001**

**SUMMARY OF OPERATING EXPERIENCE**

Page 1 of 1

Listed below in chronological sequence is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

<u>Date</u>	<u>Time</u>	<u>Data</u>
April 1, 2001	0000	Began the month in Mode 1, 100% power, 982 MWe.
April 30, 2001	2400	Ended the month in Mode 1, 100% power, 980 MWe.

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 05/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**UNIT SHUTDOWN AND POWER REDUCTION**  
(EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: April, 2001

Report No.	Date	(1) Type	Duration Hours	(2) Reason	(3) Method of Shutting Down Reactor	LER No.	(4) System Code	(5) Component Code	Cause & Corrective Action to Prevent Recurrence

None during the reporting period.

(1)  
F: Forced  
S: Scheduled

(2)  
REASON:  
A - Equipment Failure (Explain)  
B - Maintenance or Test  
C - Refueling  
D - Regulatory Restriction  
E - Operator Training & Licensing Examination  
F - Administrative  
G - Operational Error  
H - Other (Explain)

(3)  
METHOD:  
1 - Manual  
2 - Manual Scram  
3 - Automatic Scram  
4 - Continuations  
5 - Load Reduction  
9 - Other

(4)  
Exhibit G - Instructions for Preparation of Data Entry Sheets  
for Licensee Event Report (LER) File (NUREG 0161)

(5)  
Exhibit H - Same Source

## OPERATING DATA REPORT

Docket No.: 50-339  
 Date: 05/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 2
2. Reporting Period: ..... April, 2001
3. Licensed Thermal Power (MWt): ..... 2,893
4. Nameplate Rating (Gross MWe): ..... 979
5. Design Electrical Rating (Net MWe): ..... 907
6. Maximum Dependable Capacity (Gross MWe): ... 963
7. Maximum Dependable Capacity (Net MWe): ..... 917

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A

10. Reasons For Restrictions, If Any: N/A

	This Month	Year-To-Date	Cumulative
11. Hours in Reporting Period	719.0	2,879.0	178,631.0
12. Hours Reactor Was Critical	515.3	2,141.7	152,761.0
13. Reactor Reserve Shutdown Hours	25.7	70.2	7,408.8
14. Hours Generator On-Line	497.8	2,120.5	151,458.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,339,724.8	5,455,694.2	417,124,657.4
17. Gross Electrical Energy Generated (MWH)	447,955.0	1,830,952.0	136,759,220.0
18. Net Electrical Energy Generated (MWH)	425,801.0	1,738,042.0	130,556,113.0
19. Unit Service Factor	69.2%	73.7%	84.8%
20. Unit Availability Factor	69.2%	73.7%	84.8%
21. Unit Capacity Factor (Using MDC Net)	64.6%	65.8%	81.3%
22. Unit Capacity Factor (Using DER Net)	65.3%	66.6%	80.6%
23. Unit Forced Outage Rate	0.0%	1.6%	4.3%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A

25. If Shut Down at End of Report Period, Estimated Date of Start-up: \_\_\_\_\_

26. Unit In Test Status (Prior to Commercial Operation):

	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 05/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: April, 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	000	17	927
2	000	18	927
3	000	19	926
4	000	20	926
5	000	21	926
6	000	22	925
7	000	23	924
8	000	24	923
9	000	25	917
10	139	26	920
11	404	27	926
12	619	28	925
13	863	29	926
14	924	30	925
15	925		
16	925		

### INSTRUCTIONS

On this format, list the average daily unit power level in MWe - Net for each day in the reporting month. Compute to the nearest whole megawatt.



Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 05/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

### **NORTH ANNA POWER STATION**

**UNIT NO.:** 2  
**MONTH:** April, 2001

### **SUMMARY OF OPERATING EXPERIENCE**

Page 1 of 1

Listed below in chronological sequence is a summary of operating experiences for the month which required load reductions or resulted in significant non-load related incidents.

<u>Date</u>	<u>Time</u>	<u>Data</u>
April 1, 2001	0000	Began month in Mode 6.
April 4, 2001	2123	Entered Mode 5.
April 8, 2001	0917	Entered Mode 4.
April 8, 2001	1709	Entered Mode 3.
April 9, 2001	0928	Commenced withdrawing "D" bank. Entered Mode 2.
April 9, 2001	0929	"D" bank rod B8 will not withdraw. Fully inserted "D" bank.
April 9, 2001	0930	Entered Mode 3.
April 9, 2001	1059	Problem resolved with "D" bank rod B8. Entered Mode 2.
April 9, 2001	1244	Reactor critical.
April 10, 2001	0325	Entered Mode 1.
April 10, 2001	0614	The Unit was placed on line.
April 12, 2001	0000	The Unit is stable at 47.8% power, 458 MWe.
April 12, 2001	0035	Ramped down to 45% power for starting a feedwater pump.
April 12, 2001	0057	Commenced ramp up.
April 12, 2001	0936	Stabilized at 75% power for flux map.
April 13, 2001	0130	Commenced ramp up.
April 13, 2001	1430	Unit is at 100% power, 972 MWe.
April 30, 2001	2400	Ended the month in Mode 1, 100% power, 969 MWe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 05/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

**UNIT SHUTDOWN AND POWER REDUCTION**  
 (EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: April, 2001

Report No	Date	(1) Type	Duration Hours	(2) Reason	(3) Method of Shutting Down Reactor	LER No.	(4) System Code	(5) Component Code	Cause & Corrective Action to Prevent Recurrence
N2-2001-02			221.2						Continuation of scheduled refueling outage.

(1)  
 F: Forced  
 S: Scheduled

(2)  
 REASON:  
 A - Equipment Failure (Explain)  
 B - Maintenance or Test  
 C - Refueling  
 D - Regulatory Restriction  
 E - Operator Training & Licensing Examination  
 F - Administrative  
 G - Operational Error  
 H - Other (explain)

(3)  
 METHOD:  
 1 - Manual  
 2 - Manual Scram  
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