

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

June 14, 2000

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

Serial No. 00-292  
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 May 2000 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  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

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

NRR 063



VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT  
MAY 2000

Approved:

DALL  
Site Vice President

6-14-00  
Date

*A*

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 06/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... May 2000
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): ... 940
7. Maximum Dependable Capacity (Net MWe): ..... 893

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

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	744.0	3,647.0	192,347.0
12. Hours Reactor Was Critical	677.9	2,945.2	153,130.4
13. Reactor Reserve Shutdown Hours	66.1	105.3	7,239.5
14. Hours Generator On-Line	626.1	2,861.2	149,881.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,793,544.2	7,523,512.6	406,480,450.7
17. Gross Electrical Energy Generated (MWH)	605,747.0	2,556,177.0	170,842,320.0
18. Net Electrical Energy Generated (MWH)	576,813.0	2,426,999.0	126,912,699.0
19. Unit Service Factor	84.2%	78.5%	77.9%
20. Unit Availability Factor	84.2%	78.5%	77.9%
21. Unit Capacity Factor (Using MDC Net)	86.8%	74.5%	73.8%
22. Unit Capacity Factor (Using DER Net)	85.5%	73.4%	72.7%
23. Unit Forced Outage Rate	15.8%	4.0%	7.3%

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: N/A

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

	<u>FORECAST</u>	<u>ACHIEVED</u>
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 06/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: May, 2000

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	935	17	935
2	933	18	934
3	934	19	935
4	933	20	935
5	935	21	935
6	935	22	934
7	309	23	936
8	000	24	934
9	000	25	934
10	000	26	935
11	000	27	935
12	363	28	936
13	932	29	936
14	934	30	936
15	933	31	935
16	934		

### 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: 06/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: May, 2000**

**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>
May 1, 2000	0000	Began the month in Mode 1, 100% power, 980 MWe.
May 7, 2000	0757	Automatic reactor trip on Generator Lockout - Turbine Trip due to failure of generator output breaker.
May 10, 2000	0113	Commenced reactor startup.
	0205	Reactor critical.
May 12, 2000	0550	Placed main generator on line.
May 13, 2000	0238	Unit 1 at 100% power, 980 MWe.
May 31, 2000	2400	Ended the month in Mode 1, 100% power, 979 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 06/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: May, 2000

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
5/7/00	F	117.9	A	3	00-004-00	EP	BKR	Automatic reactor trip due to generator output breaker failure. The cause of the breaker failure is suspected to be a ground on the "A" phase. The generator output breaker was replaced, tested and returned to service.

(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 (Explain)

(3)  
 METHOD:  
 1 - Manual  
 2 - Manual Scram  
 3 - Automatic Scram  
 4 - Other (Explain)

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

(5)  
 Exhibit 1 - Same Source

## OPERATING DATA REPORT

Docket No.: 50-339  
 Date: 06/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2  
 2. Reporting Period:..... May, 2000  
 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): ... 944  
 7. Maximum Dependable Capacity (Net MWe): ..... 897
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

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	744.0	3,647.0	170,615.0
12. Hours Reactor Was Critical	744.0	3,614.1	145,482.3
13. Reactor Reserve Shutdown Hours	0.0	31.0	7,338.6
14. Hours Generator On-Line	744.0	3,592.4	144,200.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,150,176.1	10,335,310.0	396,856,563.6
17. Gross Electrical Energy Generated (MWH)	719,793.0	3,465,928.0	129,976,106.0
18. Net Electrical Energy Generated (MWH)	686,022.0	3,303,220.0	124,102,438.0
19. Unit Service Factor	100.0%	98.5%	84.5%
20. Unit Availability Factor	100.0%	98.5%	84.5%
21. Unit Capacity Factor (Using MDC Net)	102.8%	101.0%	80.9%
22. Unit Capacity Factor (Using DER Net)	101.7%	99.9%	80.2%
23. Unit Forced Outage Rate	0.0%	1.4%	4.5%

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: N/A

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

	<u>FORECAST</u>	<u>ACHIEVED</u>
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 06/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: May, 2000

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	926	17	920
2	924	18	920
3	926	19	922
4	925	20	921
5	925	21	922
6	924	22	922
7	922	23	922
8	919	24	921
9	919	25	920
10	919	26	922
11	920	27	922
12	922	28	922
13	921	29	923
14	922	30	924
15	923	31	923
16	922		

### 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: 06/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 2  
**MONTH:** May, 2000

**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.

<b><u>Date</u></b>	<b><u>Time</u></b>	<b><u>Data</u></b>
May 1, 2000	0000	Began the month in Mode 1, 100% power, 969 MWe.
May 31, 2000	2400	Ended the month in Mode 1, 100% power, 968 MWe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 06/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: May, 2000

Date	(1) Type	Duration Hours	(2) Reason	(3) Method of Shutting Down Rx	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 (Explain)

(3)  
 METHOD:  
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