

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

November 13, 2000

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

Serial No. 00-594  
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 October 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  
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

IE24

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

Approved:

DAM

Site Vice President

11-13-00

Date

*EL*

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 11/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... October 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

	This Month	Year-To-Date	Cumulative
11. Hours in Reporting Period	745.0	7,320.0	196,020.0
12. Hours Reactor Was Critical	745.0	6,618.2	156,803.4
13. Reactor Reserve Shutdown Hours	0.0	105.3	7,239.5
14. Hours Generator On-Line	745.0	6,534.2	153,554.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,152,643.5	18,135,204.8	417,092,142.9
17. Gross Electrical Energy Generated (MWH)	729,990.0	6,143,889.0	174,430,032.0
18. Net Electrical Energy Generated (MWH)	695,692.0	5,844,262.0	130,329,962.0
19. Unit Service Factor	100.0%	89.3%	78.3%
20. Unit Availability Factor	100.0%	89.3%	78.3%
21. Unit Capacity Factor (Using MDC Net)	104.6%	89.4%	74.4%
22. Unit Capacity Factor (Using DER Net)	103.0%	88.0%	73.3%
23. Unit Forced Outage Rate	0.0%	1.8%	7.2%

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):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 11/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: October, 2000

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	933	17	933
2	933	18	934
3	932	19	934
4	931	20	934
5	932	21	933
6	931	22	933
7	932	23	934
8	934	24	935
9	934	25	935
10	934	26	935
11	934	27	935
12	934	28	936
13	934	29	937
14	933	30	937
15	933	31	937
16	933		

### 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: 11/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: October, 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>
October 1, 2000	0000	Began the month in Mode 1, 100% power, 977 MWe.
October 31, 2000	2400	Ended the month in Mode 1, 100% power, 983 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 11/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: October, 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

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:  
 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: 11/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
2. Reporting Period:..... October, 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	745.0	7,320.0	174,288.0
12. Hours Reactor Was Critical	745.0	7,287.1	149,155.3
13. Reactor Reserve Shutdown Hours	0.0	31.0	7,338.6
14. Hours Generator On-Line	745.0	7,265.4	147,873.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,116,495.9	20,914,379.9	407,435,633.5
17. Gross Electrical Energy Generated (MWH)	706,757.0	6,997,165.0	133,507,343.0
18. Net Electrical Energy Generated (MWH)	672,682.0	6,663,871.0	127,463,089.0
19. Unit Service Factor	100.0%	99.3%	84.8%
20. Unit Availability Factor	100.0%	99.3%	84.8%
21. Unit Capacity Factor (Using MDC Net)	100.7%	101.5%	81.4%
22. Unit Capacity Factor (Using DER Net)	99.6%	100.4%	80.6%
23. Unit Forced Outage Rate	0.0%	0.7%	4.4%

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

	<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: 11/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: October, 2000

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	921	17	912
2	920	18	920
3	920	19	923
4	919	20	924
5	919	21	923
6	920	22	923
7	921	23	924
8	923	24	925
9	922	25	924
10	923	26	923
11	924	27	923
12	924	28	923
13	924	29	926
14	376	30	926
15	888	31	926
16	900		

### 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: 11/05/00  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 2  
**MONTH:** October, 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>
October 1, 2000	0000	Began the month in Mode 1, 100% power, 970 MWe.
October 14, 2000	0215	Commenced ramp down to 25% power to isolate 2-RC-49 ("B" loop hot leg sample isolation valve) due to suspected leakage from 2-SS-TV-208B ("B" loop hot leg sample trip valve).
	0605	Stopped ramp down at 27% power, 207 MWe.
	0900	2-SS-TV-208B was isolated by closing 2-RC-49.
	1558	Commenced ramp up to 100% power.
	1639	High pressure heater drain pump 2-SD-P-1A had a bearing failure.
October 15, 2000	1230	Unit at 100% power, 948 MWe.
October 17, 2000	1108	2-SD-P-1A was returned to service following maintenance. Unit at 100% power, 965 MWe.
October 31, 2000	2400	Ended the month in Mode 1, 100% power, 977 MWe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 11/05/00  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: October, 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
10-14-00	S	34.25	B			IP	SMV	Ramped down to 27% power to isolate 2-RC-49 ("B" loop hot leg sample isolation valve) due to suspected leakage from 2-SS-TV-208B ("B" loop hot leg sample trip valve).

(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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