

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

November 14, 2001

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

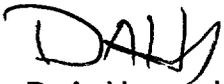
Serial No. 01-695  
NAPS/JHL  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

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

Enclosed is the October 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

IE24

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

Approved: DAW 11-14-01  
Site Vice President Date  
RL

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 11/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	745.0	7,296.0	204,780.0
12. Hours Reactor Was Critical	539.8	6,564.4	164,831.8
13. Reactor Reserve Shutdown Hours	21.7	35.7	7,275.2
14. Hours Generator On-Line	523.5	6,547.3	161,565.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,433,579.7	17,875,685.0	439,197,527.6
17. Gross Electrical Energy Generated (MWH)	484,260.0	6,049,299.0	181,914,015.0
18. Net Electrical Energy Generated (MWH)	460,097.0	5,748,395.0	137,447,172.0
19. Unit Service Factor	70.3%	89.7%	78.9%
20. Unit Availability Factor	70.3%	89.7%	78.9%
21. Unit Capacity Factor (Using MDC Net)	66.8%	85.2%	75.0%
22. Unit Capacity Factor (Using DER Net)	68.1%	86.9%	74.0%
23. Unit Forced Outage Rate	0.0%	0.0%	6.9%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A  
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  
Estimated start-up dates are no longer provided.  
(Reference: Letter Serial No. 00-070, dated February 11, 2000)

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: 11/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: October, 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	000	17	933
2	000	18	923
3	000	19	923
4	000	20	938
5	000	21	938
6	000	22	938
7	000	23	937
8	000	24	936
9	000	25	937
10	132	26	938
11	452	27	938
12	782	28	938
13	934	29	936
14	938	30	936
15	937	31	935
16	938		

### 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: 11/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 1  
**MONTH:** October, 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>
October 1, 2001	0000	Began the month in Mode 6
October 5, 2001	1645	Entered Mode 5.
October 8, 2001	1346	Entered Mode 4.
October 8, 2001	1820	Entered Mode 3.
October 9, 2001	1045	Commenced withdrawing control banks in preparation for dilution to criticality.
October 9, 2001	1129	Entered Mode 2.
October 9, 2001	1314	Unit 1 reactor is critical.
October 10, 2001	0530	Unit 1 is on line.
October 10, 2001	0750	Unit 1 is stable at 30% power, 215 MWe.
October 11, 2001	0242	Released by Chemistry and Engineering for power escalation.
October 11, 2001	1437	Unit 1 is at 61% power.
October 11, 2001	1830	Holding ramp at 74% power, 705 MWe.
October 12, 2001	0516	Commenced ramp up.
October 12, 2001	0950	Unit 1 is at 87.6% power, 830 MWe.
October 12, 2001	1451	Raising power to 96%.
October 13, 2001	0138	Unit 1 is at 100% power, 981 MWe.
October 31, 2001	2400	Ended the month in Mode 1, 100% power, 984 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 11/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: October, 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
N1-2001-001			221.5						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  
 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: 11/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

		<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11.	Hours in Reporting Period	745.0	7,296.0	183,048.0
12.	Hours Reactor Was Critical	649.7	6,463.4	157,082.7
13.	Reactor Reserve Shutdown Hours	13.1	83.3	7,421.9
14.	Hours Generator On-Line	649.2	6,429.5	155,767.3
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1,873,573.3	17,861,146.9	429,530,110.1
17.	Gross Electrical Energy Generated (MWH)	625,715.0	5,961,958.0	140,890,226.0
18.	Net Electrical Energy Generated (MWH)	595,112.0	5,664,086.0	134,482,157.0
19.	Unit Service Factor	87.1%	88.1%	85.1%
20.	Unit Availability Factor	87.1%	88.1%	85.1%
21.	Unit Capacity Factor (Using MDC Net)	87.1%	84.7%	81.7%
22.	Unit Capacity Factor (Using DER Net)	88.1%	85.6%	81.0%
23.	Unit Forced Outage Rate	0.0%	0.5%	4.2%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): N/A  
 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: \_\_\_\_\_  
 Estimated start-up dates are no longer provided.  
 (Reference: Letter Serial No. 00-070, dated February 11, 2000)

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: 11/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: October, 2001

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	913	17	923
2	912	18	923
3	915	19	922
4	915	20	922
5	915	21	923
6	914	22	923
7	912	23	922
8	913	24	922
9	915	25	921
10	920	26	922
11	920	27	885
12	920	28	017
13	921	29	000
14	921	30	000
15	922	31	000
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: 11/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 2  
**MONTH:** October, 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.

<b><u>Date</u></b>	<b><u>Time</u></b>	<b><u>Data</u></b>
October 1, 2001	0000	Began the month in Mode 1, 100% power, 965 MWe.
October 27, 2001	2015	Commenced ramp down for reactor head inspection outage. Unit at 100% power, 968 MWe.
October 28, 2001	0111	Removed main generator from service.
October 28, 2001	0120	Entered Mode 2.
October 28, 2001	0140	Entered Mode 3.
October 28, 2001	1033	Entered Mode 4.
October 28, 2001	1444	Entered Mode 5.
October 31, 2001	2400	Ended the month in Mode 5.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 11/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: October, 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
N2-2001-005	10/28/01	S	95.8	H	1				Schedule shutdown to inspect the reactor head.

(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