

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

December 13, 2004

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

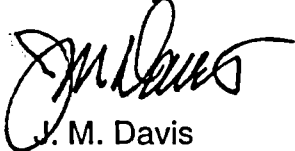
Serial No. 04-739  
NAPS/JRP  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

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

Enclosed is the November, 2004, Monthly Operating Report for North Anna Power Station Units 1 and 2.

Sincerely,



J. M. Davis  
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. T. Widmann  
NRC Senior Resident Inspector  
North Anna Power Station

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**VIRGINIA ELECTRIC AND POWER COMPANY**

**NORTH ANNA POWER STATION**

**MONTHLY OPERATING REPORT**

**NOVEMBER 2004**

Approved:

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

  
\_\_\_\_\_  
Date

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 12/13/04  
 Contact: J. M. Davis  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 1
2. Reporting Period: ..... November, 2004
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	720.0	8,040.0	231,804.0
12. Hours Reactor Was Critical	720.0	7,237.4	189,623.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,582.1
14. Hours Generator On-Line	720.0	7,280.0	186,270.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,061,771.7	20,923,143.5	509,925,458.9
17. Gross Electrical Energy Generated (MWH)	698,962.0	7,068,089.0	205,863,382.0
18. Net Electrical Energy Generated (MWH)	665,597.0	6,722,959.0	160,226,777.0
19. Unit Service Factor	100.0%	90.5%	80.4%
20. Unit Availability Factor	100.0%	90.5%	80.4%
21. Unit Capacity Factor (Using MDC Net)	99.9%	90.4%	76.9%
22. Unit Capacity Factor (Using DER Net)	101.9%	92.2%	76.2%
23. Unit Forced Outage Rate	0.0%	0.0%	6.2%

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: 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: 12/13/04  
Contact: J. M. Davis  
Telephone: (540) 894-2101

MONTH: November, 2004

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	815	17	935
2	767	18	936
3	925	19	936
4	927	20	935
5	932	21	935
6	935	22	936
7	934	23	936
8	927	24	935
9	928	25	936
10	929	26	937
11	934	27	937
12	935	28	936
13	936	29	936
14	936	30	936
15	936		
16	936		

### 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: 12/13/04  
Contact: J. M. Davis  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**

**MONTH: November, 2004**

**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>
November 1, 2004	0000	Began the month in Mode 1, 100% Power, 981 MWe.
	1618	Commence ramp to 60% IAW 1-AP-2.2, due to bus duct cooling problems.
	1721	Unit @ 61%, 603 MWe.
November 2, 2004	0827	Commence ramp to 100%.
	1239	Commence ramp to 100%.
	1328	Unit @ 100% Power, 972 MWe.
November 30, 2004	2359	Ended the month in Mode 1, 100% Power, 987 MWe.

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 12/13/04  
Contact: J. M. Davis  
Telephone: (540) 894-2101

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

REPORT MONTH: November, 2004

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
N1-2004-03	04/11/01	F	0	B	9				To perform bus duct maintenance.

(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: 12/13/04  
 Contact: J. M. Davis  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 2
2. Reporting Period:..... November, 2004
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	720.0	8,040.0	210,072.0
12. Hours Reactor Was Critical	720.0	7,351.4	178,834.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,547.0
14. Hours Generator On-Line	720.0	7,334.4	177,401.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,081,429.8	21,110,778.4	491,837,037.6
17. Gross Electrical Energy Generated (MWH)	694,902.0	7,047,554.0	161,692,923.0
18. Net Electrical Energy Generated (MWH)	661,812.0	6,704,058.0	154,270,381.0
19. Unit Service Factor	100.0%	91.2%	84.4%
20. Unit Availability Factor	100.0%	91.2%	84.4%
21. Unit Capacity Factor (Using MDC Net)	100.2%	90.9%	81.4%
22. Unit Capacity Factor (Using DER Net)	101.3%	91.9%	81.0%
23. Unit Forced Outage Rate	0.0%	0.3%	3.7%

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.  
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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: 12/13/04  
Contact: J. M. Davis  
Telephone: (540) 894-2101

MONTH: November, 2004

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	919	17	916
2	920	18	917
3	919	19	917
4	920	20	916
5	921	21	918
6	921	22	919
7	921	23	919
8	921	24	919
9	921	25	919
10	919	26	920
11	919	27	919
12	919	28	920
13	920	29	920
14	920	30	920
15	920		
16	918		

### 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: 12/13/04  
Contact: J. M. Davis  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 2**  
**MONTH: November, 2004**

**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>
November 1, 2004	0000	Began the month in Mode 1, 100% Power, 963 MWe.
November 19, 2004	2303	Commence unit ramp-down to approx. 92% to perform Turbine Valve Freedom Test. Currently @ 100% Power, 965 MWe.
	2350	Stabilized @ 92% Power, 883 MWe.
November 20, 2004	0031	Turbine Valve Freedom Test complete, SAT. Commence Power increase to 100% Power. Currently 92% Power, 882 MWe.
	0141	Unit @ 100% Power, 956 MWe.
November 30, 2004	2359	Ended the Month in Mode 1, 100% Power, 965 MWe.

Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 12/13/04  
Contact: J. M. Davis  
Telephone: (540) 894-2101

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

REPORT MONTH: November, 2004

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

No entries for this 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  
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