

December 10, 2002

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

Serial No. 02-755  
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, 2002, 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  
NOVEMBER 2002**

Approved:

DAH

Site Vice President

12-9-02

Date

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 12/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... November, 2002
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	720.0	8,016.0	214,260.0
12. Hours Reactor Was Critical	720.0	8,016.0	174,311.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,275.2
14. Hours Generator On-Line	720.0	8,016.0	171,045.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,081,565.5	23,130,617.0	466,560,623.9
17. Gross Electrical Energy Generated (MWH)	707,802.0	7,847,146.0	191,202,377.0
18. Net Electrical Energy Generated (MWH)	673,544.0	7,468,571.0	146,288,138.0
19. Unit Service Factor	100.0%	100.0%	79.8%
20. Unit Availability Factor	100.0%	100.0%	79.8%
21. Unit Capacity Factor (Using MDC Net)	101.1%	100.7%	76.2%
22. Unit Capacity Factor (Using DER Net)	103.1%	102.7%	75.3%
23. Unit Forced Outage Rate	0.0%	0.0%	6.6%

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):

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

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 12/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: November, 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	937	17	937
2	937	18	933
3	937	19	933
4	931	20	935
5	929	21	936
6	931	22	936
7	938	23	937
8	938	24	937
9	938	25	936
10	938	26	936
11	937	27	937
12	932	28	937
13	932	29	935
14	934	30	936
15	939		
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: 12/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: November, 2002**

**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, 2002	0000	Began the month in Mode 1, 100% power, 984 MWe.
November 30, 2002	2400	Ended the month in Mode 1, 100% Power, 983 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 12/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: November, 2002

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: 12/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
2. Reporting Period:..... November, 2002
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	720.0	8,016.0	192,528.0
12. Hours Reactor Was Critical	0.0	6,000.7	163,450.7
13. Reactor Reserve Shutdown Hours	0.0	12.7	7,502.4
14. Hours Generator On-Line	0.0	6,000.0	162,116.4
15. Unit Reserve Shutdown Hours	0.0	0 0	0.0
16. Gross Thermal Energy Generated (MWH)	0.0	17,342,125.3	447,855,149.3
17. Gross Electrical Energy Generated (MWH)	0.0	5,792,535.0	147,010,676.0
18. Net Electrical Energy Generated (MWH)	0.0	5,509,695.0	140,303,569.0
19. Unit Service Factor	0.0%	74.9%	84.2%
20. Unit Availability Factor	0.0%	74.9%	84.2%
21. Unit Capacity Factor (Using MDC Net)	0.0%	75.0%	80.9%
22. Unit Capacity Factor (Using DER Net)	0.0%	75.8%	80.3%
23. Unit Forced Outage Rate	0.0%	0.0%	4.1%

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: Unknown  
 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):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

## AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 12/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: November, 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	000	17	000
2	000	18	000
3	000	19	000
4	000	20	000
5	000	21	000
6	000	22	000
7	000	23	000
8	000	24	000
9	000	25	000
10	000	26	000
11	000	27	000
12	000	28	000
13	000	29	000
14	000	30	000
15	000		
16	000		

### 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: 12/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 2**  
**MONTH: November, 2002**

**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, 2002	0000	Began the month de-fueled
November 30, 2002	2400	Ended the month de-fueled

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 12/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: November, 2002

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
N2-2002-01		S	720 hrs.	C/B	1				Continuation of refueling / Reactor Vessel Head Replacement 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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 4 - Continuations  
 5 - Load Reduction  
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(4)  
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

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 Exhibit H - Same Source