

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

July 8, 2003

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

Serial No. 03-402  
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 June, 2003, 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  
JUNE 2003**

Approved:

DALL

Site Vice President

7-8-03

Date

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 07/08/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... June, 2003
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	4,343.0	219,347.0
12. Hours Reactor Was Critical	494.4	2,823.6	177,879.4
13. Reactor Reserve Shutdown Hours	226.0	306.9	7,582.1
14. Hours Generator On-Line	482.8	2,784.3	174,573.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,383,209.9	7,522,673.4	476,233,733.7
17. Gross Electrical Energy Generated (MWH)	467,554.0	2,544,679.0	194,478,294.0
18. Net Electrical Energy Generated (MWH)	444,638.0	2,412,506.0	149,396,408.0
19. Unit Service Factor	67.1%	64.1%	79.6%
20. Unit Availability Factor	67.1%	64.1%	79.6%
21. Unit Capacity Factor (Using MDC Net)	66.8%	60.1%	75.9%
22. Unit Capacity Factor (Using DER Net)	68.1%	61.2%	75.1%
23. Unit Forced Outage Rate	32.9%	8.4%	6.4%

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: 07/08/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: June, 2003

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	935	17	000
2	934	18	000
3	934	19	000
4	934	20	000
5	934	21	249
6	934	22	926
7	934	23	929
8	934	24	930
9	933	25	930
10	931	26	930
11	578	27	930
12	000	28	929
13	000	29	929
14	000	30	929
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.: 50-338  
Unit Name: North Anna Unit 1  
Date: 07/08/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: June, 2003**

**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>
June 1, 2003	0000	Began the month in Mode 1, 100% power, 980 Mwe.
June 11, 2003	1453	Reactor Trip on Main Transformer lock-out relay, Turbine Trip.
June 21, 2003	0006	Entered Mode 2.
	0028	Reactor Critical.
	0257	Entered Mode 1.
	1204	Placed Unit on-line
	1317	Unit @ 30% Power, 240 MWe in a chemistry hold.
	1444	Cleared chemistry hold. Commence power increase.
	1853	Hold ramp @ 73% power, 713 MWe. for Calorimetric.
	2023	Calorimetric SAT.
	2033	Commence power increase.
	2227	Hold ramp @ 88% power, 859 MWe. for Calorimetric
	2234	Calorimetric SAT.
	2242	Commence power increase.
June 22, 2003	0200	Unit @ 100% power, 980 MWe.
June 30, 2003	2400	Ended the month in Mode 1, 100% power, 977 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 07/08/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: June, 2003

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
N1-2003-003	03/06/11	F	237.2	A	3				Main Transformer lock-out relay Turbine Trip / Rx Trip.

(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: 07/08/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
2. Reporting Period:..... June, 2003
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

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9. Power Level To Which Restricted, If Any (Net MWe): N/A

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10. Reasons For Restrictions, If Any: N/A

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	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	720.0	4,343.0	197,615.0
12. Hours Reactor Was Critical	720.0	3,615.1	167,065.8
13. Reactor Reserve Shutdown Hours	0.0	44.6	7,547.0
14. Hours Generator On-Line	720.0	3,534.1	165,650.5
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,081,192.3	10,116,018.6	457,971,167.9
17. Gross Electrical Energy Generated (MWH)	694,245.0	3,369,865.0	150,380,541.0
18. Net Electrical Energy Generated (MWH)	660,276.0	3,205,212.0	143,508,781.0
19. Unit Service Factor	100.0%	81.4%	83.8%
20. Unit Availability Factor	100.0%	81.4%	83.8%
21. Unit Capacity Factor (Using MDC Net)	100.0%	80.5%	80.6%
22. Unit Capacity Factor (Using DER Net)	101.1%	81.4%	80.1%
23. Unit Forced Outage Rate	0.0%	0.6%	4.0%

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)

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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)

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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: 07/08/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: June, 2003

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	924	17	912
2	923	18	911
3	923	19	910
4	923	20	910
5	922	21	915
6	922	22	918
7	922	23	919
8	921	24	919
9	919	25	918
10	922	26	917
11	919	27	917
12	912	28	917
13	912	29	918
14	911	30	917
15	911		
16	910		

#### 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: 07/08/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 2**  
**MONTH: June, 2003**

**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>
June 1, 2003	0000	Began the month in Mode 1, 100% power, 969 MWe.
June 30, 2003	2400	Ended the Month in Mode 1, 100% power, 967 Mwe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 07/08/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: June, 2003

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  
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