

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

May 11, 1999

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

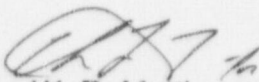
Serial No. 99-276  
NAPS/JHL  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

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

Enclosed is the April 1999 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,

  
W. R. Matthews  
Site Vice President

Enclosure

Commitments made in this letter: None.

cc: U. S. Nuclear Regulatory Commission  
Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

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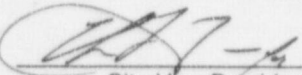
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VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT  
APRIL 1999

Approved:

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

5-11-99  
Date:

# OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 05/05/99  
 Contact: W. R. Matthews  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 1
2. Reporting Period: ..... April, 1999
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 Reason: 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	719.0	2,879.0	182,819.0
12. Hours Reactor Was Critical	719.0	2,879.0	144,304.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,134.2
14. Hours Generator On-Line	719.0	2,879.0	141,138.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,077,249.0	8,321,117.3	382,016,146.2
17. Gross Electrical Energy Generated (MWH)	704,396.0	2,791,417.0	162,549,287.0
18. Net Electrical Energy Generated (MWH)	671,737.0	2,661,260.0	119,022,498.0
19. Unit Service Factor	100.0%	100.0%	77.2%
20. Unit Availability Factor	100.0%	100.0%	77.2%
21. Unit Capacity Factor (Using MDC Net)	104.6%	103.5%	72.8%
22. Unit Capacity Factor (Using DER Net)	103.0%	101.9%	71.8%
23. Unit Forced Outage Rate	0.0%	0.0%	7.7%

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: \_\_\_\_\_

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: 05/05/99  
 Contact: W. R. Matthews  
 Telephone: (540) 894-2101

MONTH: April, 1999

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	936	17	936
2	937	18	936
3	936	19	936
4	892	20	935
5	926	21	936
6	935	22	936
7	935	23	935
8	934	24	936
9	932	25	936
10	929	26	935
11	935	27	935
12	928	28	935
13	931	29	935
14	936	30	935
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: 05/05/99  
Contact: W. R. Matthews  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: April 1999**

**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>
April 1, 1999	0000	Began the month in Mode 1, 100% power, 983 MWe.
April 4, 1999	1445	Ramped down to 98.5% power, 968 MWe due to "B" iso-phase bus duct temperature being greater than 100°C.
April 6, 1999	0000	Ramped unit back to 100% power.
April 9, 1999	2346	Ramped unit to 88.5% power, 870 MWe, for turbine valve freedom testing (TVFT).
April 10, 1999	0410	Ramped unit to 100% power, 982 MWe, following successful completion of TVFT.
April 12, 1999	0044	Ramped unit to 95% power, 937 MWe, for removal of "B" condenser waterbox for tube inspection / plugging.
	0400	"B" condenser waterbox maintenance complete. Ramped unit to 100% power, 976 MWe.
April 30, 1999	2400	Ended month in Mode 1, 100% power, 982 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 05/05/99  
 Contact: W. R. Matthews  
 Telephone: (540) 894-2101

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

REPORT MONTH: April, 1999

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: 05/05/99  
 Contact: W. R. Matthews  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
2. Reporting Period:..... April, 1999
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

	This Month	Year-To-Date	Cumulative
11. Hours in Reporting Period	719.0	2,879.0	161,087.0
12. Hours Reactor Was Critical	719.0	2,879.0	136,667.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,241.5
14. Hours Generator On-Line	719.0	2,879.0	135,452.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,074,367.8	8,314,227.9	372,040,923.6
17. Gross Electrical Energy Generated (MWH)	689,703.0	2,735,285.0	121,692,201.0
18. Net Electrical Energy Generated (MWH)	656,902.0	2,605,545.0	116,219,618.0
19. Unit Service Factor	100.0%	100.0%	84.1%
20. Unit Availability Factor	100.0%	100.0%	84.1%
21. Unit Capacity Factor (Using MDC Net)	101.9%	100.9%	80.2%
22. Unit Capacity Factor (Using DER Net)	100.7%	99.8%	79.5%
23. Unit Forced Outage Rate	0.0%	0.0%	4.7%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
 30 Day Refueling Outage - September 1999

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.: 50-339  
Unit Name: North Anna Unit 2  
Date: 05/05/99  
Contact: W. R. Matthews  
Telephone: (540) 894-2101

MONTH: April, 1999

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	916	17	914
2	915	18	915
3	915	19	915
4	877	20	914
5	914	21	916
6	915	22	914
7	913	23	913
8	913	24	915
9	913	25	917
10	914	26	917
11	914	27	908
12	913	28	911
13	914	29	909
14	914	30	915
15	914		
16	914		

### 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: 05/05/99  
Contact: W. R. Matthews  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

UNIT NO.: 2  
MONTH: April 1999

**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>
April 1, 1999	0000	Began the month in Mode 1, 100% power, 962 MWe.
April 30, 1999	2400	Ended the month in Mode 1, 100% power, 960 MWe.

Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 05/05/99  
Contact: W. R. Matthews  
Telephone: (540) 894-2101

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

REPORT MONTH: April, 1999

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

None during the reporting period.

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(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  
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Exhibit 1 - Same Source