

October 10, 2002

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

Serial No. 02-629  
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 September, 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

IE24

**VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT  
SEPTEMBER 2002**

Approved:

DALL

Site Vice President

10-9-02

Date

## OPERATING DATA REPORT

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

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

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	720.0	6,551.0	212,795.0
12. Hours Reactor Was Critical	720.0	6,551.0	172,846.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,275.2
14. Hours Generator On-Line	720.0	6,551.0	169,580.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,039,628.8	18,895,265.3	462,325,272.2
17. Gross Electrical Energy Generated (MWH)	690,548.0	6,408,047.0	189,763,278.0
18. Net Electrical Energy Generated (MWH)	655,959.0	6,099,616.0	144,919,183.0
19. Unit Service Factor	100.0%	100.0%	79.7%
20. Unit Availability Factor	100.0%	100.0%	79.7%
21. Unit Capacity Factor (Using MDC Net)	98.5%	100.7%	76.0%
22. Unit Capacity Factor (Using DER Net)	100.4%	102.7%	75.1%
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):

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

MONTH: September, 2002

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	930	17	930
2	921	18	932
3	662	19	931
4	719	20	931
5	824	21	931
6	929	22	931
7	930	23	930
8	929	24	932
9	930	25	932
10	931	26	932
11	931	27	932
12	931	28	932
13	930	29	933
14	930	30	933
15	931		
16	931		

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

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: September, 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>
September 1, 2002	0000	Began the month in Mode 1, 100% power, 977 MWe.
September 2, 2002	2204	Commence ramping the Unit to 65% power for scheduled waterbox maint.
September 3, 2002	0049	Unit @ 65% power
	0340	Commence raising power to obtain a vacuum of 3.3
	0553	Holding power @ 73%, 702 MWe for calorimetric
	0700	Recommence ramp-up to approx. 75% power, 719 MWe.
	0758	Stabilized power @ 75%, 719 MWe.
	2320	Commence raising power to increase vacuum from 3.25 to 3.5
September 4, 2002	0300	Stabilized @ 79% power, 962 MWe.
September 5, 2002	0920	Waterbox maintenance is complete. Commence ramp-up.
	1006	Stop ramp to perform turbine valve freedom test 1-PT-34.3
	1048	TVFT complete Sat
	1049	Commence ramp-up, 86% power, 840 MWe.
	1103	Stopped ramp for calorimetric
	1118	Re-commence ramp-up
	1154	Secured ramp to start I-SD-P-2B
	1207	Re-commence ramp-up
	1250	Unit @ 100% power, 969 MWe.
September 30, 2002	2400	Ended the month in Mode 1, 100% Power, 980 MWe.

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

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

REPORT MONTH: September, 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
N1 2002-01	9/2/02	S	62.8 hrs	B					Ramp Unit 1 to 65% power for waterbox maint. & TVFT.

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

- 1. Unit Name: ..... North Anna Unit 2
- 2. Reporting Period: ..... September, 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

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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	6,551.0	191,063.0
12.	Hours Reactor Was Critical	169.7	6,000.7	163,450.7
13.	Reactor Reserve Shutdown Hours	12.7	12.7	7,502.4
14.	Hours Generator On-Line	169.0	6,000.0	162,116.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	482,534.2	17,342,125.3	447,855,149.3
17.	Gross Electrical Energy Generated (MWH)	160,542.0	5,792,535.0	147,010,676.0
18.	Net Electrical Energy Generated (MWH)	152,494.0	5,509,695.0	140,303,569.0
19.	Unit Service Factor	23.5%	91.6%	84.8%
20.	Unit Availability Factor	23.5%	91.6%	84.8%
21.	Unit Capacity Factor (Using MDC Net)	23.1%	91.7%	81.6%
22.	Unit Capacity Factor (Using DER Net)	23.4%	92.7%	81.0%
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)

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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)

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

MONTH: September, 2002

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	917	17	000
2	916	18	000
3	916	19	000
4	915	20	000
5	914	21	000
6	914	22	000
7	856	23	000
8	005	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: 10/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

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

<b><u>Date</u></b>	<b><u>Time</u></b>	<b><u>Data</u></b>
September 1, 2002	0000	Began the month in Mode 1, 100% power, 956 MWe.
September 7, 2002	1946	Commence ramping Unit off-line for scheduled refueling outage.
September 8, 2002	0100	Unit off-line.
	0127	Entered Mode 2
	0139	Entered Mode 3
	1038	Entered Mode 4
	1422	Entered Mode 5
September 11, 2002	1501	Entered Mode 6
September 14, 2002	0820	Commence core off-load
September 15, 2002	2016	Core off-load complete
September 30, 2002	2400	Ended the month defueled

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
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**UNIT SHUTDOWN AND POWER REDUCTION**  
 (EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: September, 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	9/8/02	S	551 hrs.	C	1				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  
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 4 - Continuations  
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(4)  
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