

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

October 11, 2001

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


Serial No. 01-628  
NAPS/MPW  
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 2001 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

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VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT  
SEPTEMBER 2001

Approved:

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

10-11-01  
Date

re

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 10/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... September 2001
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	204,035.0
12. Hours Reactor Was Critical	193.6	6,024.6	164,292.0
13. Reactor Reserve Shutdown Hours	14.0	14.0	7,253.5
14. Hours Generator On-Line	192.8	6,023.8	161,041.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	352,104.4	16,442,105.3	437,763,947.9
17. Gross Electrical Energy Generated (MWH)	118,361.0	5,565,039.0	181,429,755.0
18. Net Electrical Energy Generated (MWH)	110,244.0	5,288,298.0	136,987,075.0
19. Unit Service Factor	26.8%	92.0%	78.9%
20. Unit Availability Factor	26.8%	92.0%	78.9%
21. Unit Capacity Factor (Using MDC Net)	16.6%	87.3%	75.0%
22. Unit Capacity Factor (Using DER Net)	16.9%	89.0%	74.0%
23. Unit Forced Outage Rate	0.0%	0.0%	6.9%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): September 2001  
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: \_\_\_\_\_  
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: 10/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: September, 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	588	17	000
2	588	18	000
3	586	19	000
4	564	20	000
5	571	21	000
6	571	22	000
7	573	23	000
8	550	24	000
9	002	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.: 50-338  
Unit Name: North Anna Unit 1  
Date: 10/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 1  
**MONTH:** September, 2001

**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, 2001	0000	Began the month in Mode 1, 65% power, 627 MWe in an end of life power coastdown.
September 8, 2001	2140	Commenced ramping Unit off line to support refueling outage. Unit at 62% power, 609 Mwe.
September 9, 2001	0050	Opened G-12 breaker, unit off line.
	0119	Entered Mode 2
	0138	Entered Mode 3
	1049	Entered Mode 4
	1540	Entered Mode 5
September 13, 2001	0020	Entered Mode 6
September 16, 2001	0623	Commenced core off load
September 17, 2001	2058	Unit defueled
September 25, 2001	1416	Commence core on load IAW OP-4.1
	1446	Entered Mode 6
September 27, 2001	0802	Core on load is complete
September 30, 2001	2400	Ended the month in Mode 6

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 10/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: September, 2001

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
N1-2001-001	9-9-01	S	527.2	C	1				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  
 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: 10/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
2. Reporting Period:..... September, 2001
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

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	182,303.0
12.	Hours Reactor Was Critical	720.0	5,813.7	156,433.0
13.	Reactor Reserve Shutdown Hours	0.0	70.2	7,408.8
14.	Hours Generator On-Line	720.0	5,780.3	155,118.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,081,608.9	15,987,573.6	427,656,536.8
17.	Gross Electrical Energy Generated (MWH)	691,807.0	5,336,243.0	140,264,511.0
18.	Net Electrical Energy Generated (MWH)	656,405.0	5,068,974.0	133,887,045.0
19.	Unit Service Factor	100.0%	88.2%	85.1%
20.	Unit Availability Factor	100.0%	88.2%	85.1%
21.	Unit Capacity Factor (Using MDC Net)	99.4%	84.4%	81.6%
22.	Unit Capacity Factor (Using DER Net)	100.5%	85.3%	81.0%
23.	Unit Forced Outage Rate	0.0%	0.6%	4.2%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
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(Reference: Letter Serial No. 00-070, dated February 11, 2000)

25. If Shut Down at End of Report Period, Estimated Date of Start-up: \_\_\_\_\_  
 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.: 50-339  
Unit Name: North Anna Unit 2  
Date: 10/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: September, 2001

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	915	17	912
2	914	18	914
3	914	19	913
4	913	20	910
5	913	21	908
6	914	22	908
7	914	23	911
8	906	24	912
9	907	25	911
10	909	26	913
11	910	27	915
12	911	28	915
13	911	29	913
14	911	30	914
15	910		
16	908		

### 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: 10/05/01  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.:** 2  
**MONTH:** September, 2001

**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>
September 1, 2001	0000	Began the month in Mode 1, 100% power, 958 MWe.
September 8, 2001	0247	Commence ramp of unit for 2-PT-34.3, Turbine Valve Freedom Test. (TVFT)
	0335	Secured ramp at 90.5% power, 880 Mwe.
	0448	TVFT complete SAT. Commence unit ramp to return unit to 100% power.
	0825	Unit at 100% power, 959 MWE.
September 30, 2001	2400	Ended the month in Mode 1, 100% power, 965 MWe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 10/05/01  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: September, 2001

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  
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