

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

October 10, 2003

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

Serial No. 03-515  
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, 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

IE24

**VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT  
SEPTEMBER 2003**

Approved:

DALU

Site Vice President

10-9-03

Date

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 10/10/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 1
2. Reporting Period: ..... September, 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	6,551.0	221,555.0
12. Hours Reactor Was Critical	720.0	5,031.6	180,087.4
13. Reactor Reserve Shutdown Hours	0.0	306.9	7,582.1
14. Hours Generator On-Line	720.0	4,992.3	176,781.6
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,081,238.8	13,905,062.2	482,616,122.5
17. Gross Electrical Energy Generated (MWH)	703,966.0	4,698,005.0	196,631,620.0
18. Net Electrical Energy Generated (MWH)	669,315.0	4,459,703.0	151,443,605.0
19. Unit Service Factor	100.0%	76.2%	79.8%
20. Unit Availability Factor	100.0%	76.2%	79.8%
21. Unit Capacity Factor (Using MDC Net)	100.5%	73.6%	76.2%
22. Unit Capacity Factor (Using DER Net)	102.5%	75.1%	75.4%
23. Unit Forced Outage Rate	0.0%	4.8%	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):

	<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: 10/10/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: September, 2003

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	926	17	930
2	927	18	931
3	927	19	931
4	926	20	931
5	927	21	931
6	929	22	931
7	929	23	931
8	928	24	932
9	929	25	931
10	930	26	931
11	930	27	931
12	929	28	931
13	927	29	932
14	930	30	932
15	930		
16	930		

### 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: 10/10/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

UNIT NO.: 1  
MONTH: September, 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>
September 1, 2003	0000	Began the month in Mode 1, 100% power, 971 MWe.
September 12, 2003	2305	Commence ramp-down to approx. 91% power to perform Turbine Valve Freedom Test . Currently 100%, 978 MWe.
September 13, 2003	0017	Holding @ 91% power, 890 MWe. Turbine Valve Freedom Test completed SAT. Commence ramp back to 100%.
	0200	Unit @ 100% power, 977 MWe.
September 30, 2003	2400	Ended the month in Mode 1, 100% power, 980 MWe.

Docket No.: 50-338  
 Unit Name: North Anna Unit 1  
 Date: 10/10/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: September, 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  
 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: 10/10/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

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	199,823.0
12. Hours Reactor Was Critical	720.0	5,823.1	169,273.8
13. Reactor Reserve Shutdown Hours	0.0	44.6	7,547.0
14. Hours Generator On-Line	720.0	5,742.1	167,858.5
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,067,931.0	16,485,420.5	464,340,569.8
17. Gross Electrical Energy Generated (MWH)	691,068.0	5,493,790.0	152,504,466.0
18. Net Electrical Energy Generated (MWH)	656,695.0	5,223,828.0	145,527,397.0
19. Unit Service Factor	100.0%	87.7%	84.0%
20. Unit Availability Factor	100.0%	87.7%	84.0%
21. Unit Capacity Factor (Using MDC Net)	99.5%	87.0%	80.8%
22. Unit Capacity Factor (Using DER Net)	100.6%	87.9%	80.3%
23. Unit Forced Outage Rate	0.0%	0.4%	3.9%

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.: 50-339  
Unit Name: North Anna Unit 2  
Date: 10/10/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: September, 2003

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	914	17	919
2	915	18	919
3	916	19	742
4	915	20	916
5	912	21	918
6	914	22	919
7	917	23	920
8	917	24	920
9	918	25	920
10	918	26	919
11	918	27	919
12	919	28	919
13	919	29	921
14	918	30	922
15	919		
16	919		

### 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: 10/10/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 2**  
**MONTH: September, 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>
September 1, 2003	0000	Began the month in Mode 1, 100% power, 960 MWe.
September 5, 2003	2254	Commence ramp to approx. 91% to perform Turbine Valve Freedom Test.
	2337	Unit @ 91% power, 874 MWe.
September 6, 2003	0022	Turbine Valve Freedom Test completed SAT. Commence ramp to 100% power.
	0240	Unit @ 100% power, 960 MWe.
September 18, 2003	2239	Commence ramp-down per system request for a 300MW load-follow IAW OP-2.2 (Grid instability caused by Hurricane Isabel). Currently 100%, 967 MWe.
September 19, 2003	0802	System Operator requested further power reduction.
	0817	Ramp held @ 62%, 600 MWe.
	1056	Commence ramp to 100%. Currently 62% power, 600 MWe.
September 20, 2003	0000	Unit stable @ 100% power, 960 MWe.
September 30, 2003	2400	Ended the Month in Mode 1, 100% power, 970 MWe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 10/10/03  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

**REPORT MONTH: September, 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
	030918	F	0	H	9				Unit ramped-down to 600 MW per request of System Operator due to grid instability caused by Hurricane Isabel.

(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

Docket No.: 50-339  
Unit Name: North Anna Unit 2  
Date: 10/10/03  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

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

REPORT MONTH: September, 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
	030918	F	0	H	9				Unit ramped-down to 600 MW per request of System Operator due to grid instability caused by Hurricane Isabel.

(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