

May 10, 2002

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

Serial No. 02-307  
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 April, 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

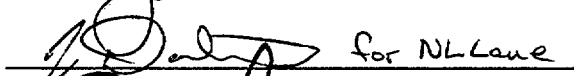
bc: Mr. J. R. Peyton - NAPS  
Mr. T. A. Brookmire - IN3SW  
Mr. W. R. Street - IN2SW  
Mr. M. C. Murph - OJRP-20  
Mr. J. C. DeBiec - ODEC  
Ms. Barbara Lewis - McGraw-Hill, Inc./Utility Data Institute, Inc. ([blewis@mgh.com](mailto:blewis@mgh.com)) -  
Provide only required electronic excerpts from MOR: 1) Operating  
Data Reports for Units 1 and 2, and 2) Unit Shutdown and Power  
Reduction (Equal To or Greater Than 20%) for Units 1 and 2.  
Licensing File GOV 02-54B  
Mr. L. J. Curfman, NOB / MSRC Distribution - IN2N  
Records Management (bc original) - INGW

CONCURRENCE

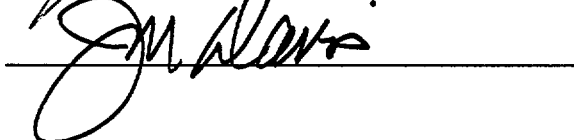
J. W. Crossman



N. L. Lane

 for NL Lane

J. M. Davis



Commitments (Stated or Implied) / Internal Actions:

1. None.

Verification of Accuracy:

1. Data provided by Operations

Required Changes to the UFSAR or the QA Topical Report:

1. None.

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

Approved:

DAW

Site Vice President

5-10-02

Date

## OPERATING DATA REPORT

Docket No.: 50-338  
 Date: 05/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

1. Unit Name: ..... North Anna Unit 1
2. Reporting Period: ..... April, 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	719.0	2,879.0	209,123.0
12. Hours Reactor Was Critical	719.0	2,879.0	169,174.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,275.2
14. Hours Generator On-Line	719.0	2,879.0	165,908.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,076,369.6	8,321,405.3	451,751,412.2
17. Gross Electrical Energy Generated (MWH)	705,908.0	2,830,037.0	186,185,268.0
18. Net Electrical Energy Generated (MWH)	672,649.0	2,695,738.0	141,515,305.0
19. Unit Service Factor	100.0%	100.0%	79.3%
20. Unit Availability Factor	100.0%	100.0%	79.3%
21. Unit Capacity Factor (Using MDC Net)	101.1%	101.2%	75.6%
22. Unit Capacity Factor (Using DER Net)	103.1%	103.2%	74.6%
23. Unit Forced Outage Rate	0.0%	0.0%	6.7%

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: 05/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: APRIL, 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	939	17	914
2	938	18	933
3	937	19	937
4	938	20	937
5	938	21	937
6	938	22	937
7	939	23	938
8	932	24	938
9	937	25	937
10	937	26	937
11	937	27	929
12	937	28	930
13	932	29	936
14	938	30	937
15	937		
16	937		

### 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: 05/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

**UNIT NO.: 1**  
**MONTH: April, 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>
April 1, 2002	0000	Began the month in Mode 1, 100% power, 983 MWe.
April 12, 2002	2304	Commence ramp down for Turbine Valve Freedom Test I-PT-34.3.
April 13, 2002	0022	Ramp secured @ 91% power, 899 Mwe.
	0115	I-PT-34.3 complete SAT, commence power increase to 100%.
	0238	Unit @ 100% power, 983 Mwe.
April 17, 2002	2120	Commence ramp down IAW AP 2.2 due to Hi Isophase Bus Duct Temp.
	2137	Ramp secured @ 74% power, 721 Mwe.
	2216	Maintenance complete on I-GM-F-2.
	2250	Commence power increase from 71.5% power, 720 Mwe.
April 18, 2002	0134	Unit @ 100% power, 980 Mwe.
April 30, 2002	2400	Ended the month in Mode 1, 100% power, 982 MWe.

Docket No.: 50-338  
Unit Name: North Anna Unit 1  
Date: 05/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

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

REPORT MONTH: April, 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
N1-2002-001	4/17/02	F	4.2 hrs	A					Unit ramp-down to 74% power to repair 1-GM-F-2.

(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: 05/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

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	187,391.0
12. Hours Reactor Was Critical	719.0	2,879.0	160,329.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	7,489.7
14. Hours Generator On-Line	719.0	2,879.0	158,995.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,078,669.8	8,324,485.9	438,837,509.9
17. Gross Electrical Energy Generated (MWH)	696,750.0	2,791,664.0	144,009,805.0
18. Net Electrical Energy Generated (MWH)	663,521.0	2,657,648.0	137,451,522.0
19. Unit Service Factor	100.0%	100.0%	84.8%
20. Unit Availability Factor	100.0%	100.0%	84.8%
21. Unit Capacity Factor (Using MDC Net)	100.6%	100.7%	81.5%
22. Unit Capacity Factor (Using DER Net)	101.7%	101.8%	80.9%
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)

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: 05/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

MONTH: April, 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	924	17	922
2	924	18	922
3	923	19	922
4	925	20	921
5	924	21	922
6	924	22	923
7	919	23	924
8	923	24	925
9	923	25	923
10	923	26	923
11	923	27	924
12	923	28	923
13	924	29	922
14	923	30	923
15	922		
16	922		

### 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: 05/10/02  
Contact: D. A. Heacock  
Telephone: (540) 894-2101

**NORTH ANNA POWER STATION**

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

<u>Date</u>	<u>Time</u>	<u>Data</u>
April 1, 2002	0000	Began the month in Mode 1, 100% power, 969 MWe.
April 7, 2002	0005	Commence ramp down for 2-PT -34.3 Turbine Valve Freedom Test.
	0035	Stabilized power @ 91%, 890 Mwe.
	0123	TVFT complete. Commence power increase to 100%
	0315	Unit @ 100% Power, 970 Mwe.
April 30, 2002	2400	Ended the month in Mode 1, 100% power, 968 MWe.

Docket No.: 50-339  
 Unit Name: North Anna Unit 2  
 Date: 05/10/02  
 Contact: D. A. Heacock  
 Telephone: (540) 894-2101

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

REPORT MONTH: April, 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

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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 H - Other (explain)

(3)  
 METHOD:  
 1 - Manual  
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