

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 11, 2002

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

Serial No. 02-034
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 December 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

IE24

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

Approved:

DALY

Site Vice President

1-11-02

Date

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OPERATING DATA REPORT

Docket No.: 50-338
 Date: 01/04/02
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... December 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

	This Month	Year-To-Date	Cumulative
11. Hours in Reporting Period	744.0	8,760.0	206,244.0
12. Hours Reactor Was Critical	744.0	8,028.4	166,295.8
13. Reactor Reserve Shutdown Hours	0.0	35.7	7,275.2
14. Hours Generator On-Line	744.0	8,011.3	163,029.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,151,009.2	22,108,164.3	443,430,006.9
17. Gross Electrical Energy Generated (MWH)	732,129.0	7,490,515.0	183,355,231.0
18. Net Electrical Energy Generated (MWH)	697,125.0	7,120,790.0	138,819,567.0
19. Unit Service Factor	100.0%	91.5%	79.0%
20. Unit Availability Factor	100.0%	91.5%	79.0%
21. Unit Capacity Factor (Using MDC Net)	101.3%	87.9%	75.2%
22. Unit Capacity Factor (Using DER Net)	103.3%	89.6%	74.2%
23. Unit Forced Outage Rate	0.0%	0.0%	6.9%

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):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338
Unit Name: North Anna Unit 1
Date: 01/04/02
Contact: D. A. Heacock
Telephone: (540) 894-2101

MONTH: December, 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	939	17	938
2	938	18	938
3	938	19	939
4	937	20	938
5	937	21	937
6	936	22	937
7	937	23	937
8	937	24	930
9	938	25	937
10	939	26	936
11	937	27	937
12	937	28	936
13	937	29	936
14	936	30	936
15	937	31	936
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: 01/04/02
Contact: D. A. Heacock
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: December, 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>
December 1, 2001	0000	Began the month in Mode 1, 100% power, 986 MW _e .
December 31, 2001	2400	Ended the month in Mode 1, 100% power, 982 MW _e .

Docket No.: 50-338
 Unit Name: North Anna Unit 1
 Date: 01/04/02
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

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

REPORT MONTH: December, 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
 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: 01/04/02
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

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

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	744.0	8,760.0	184,512.0
12. Hours Reactor Was Critical	367.3	6,830.7	157,450.0
13. Reactor Reserve Shutdown Hours	67.8	151.1	7,489.7
14. Hours Generator On-Line	349.1	6,778.6	156,116.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	982,913.9	18,844,060.8	430,513,024.0
17. Gross Electrical Energy Generated (MWH)	327,915.0	6,289,873.0	141,218,141.0
18. Net Electrical Energy Generated (MWH)	311,717.0	5,975,803.0	134,793,874.0
19. Unit Service Factor	46.9%	77.4%	84.6%
20. Unit Availability Factor	46.9%	77.4%	84.6%
21. Unit Capacity Factor (Using MDC Net)	45.7%	74.4%	81.2%
22. Unit Capacity Factor (Using DER Net)	46.2%	75.2%	80.5%
23. Unit Forced Outage Rate	12.8%	1.2%	4.2%

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: 01/04/02
Contact: D. A. Heacock
Telephone: (540) 894-2101

MONTH: December, 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	000	17	923
2	000	18	925
3	000	19	925
4	000	20	925
5	000	21	925
6	000	22	578
7	000	23	000
8	000	24	081
9	000	25	866
10	000	26	925
11	000	27	924
12	000	28	924
13	000	29	923
14	000	30	924
15	381	31	923
16	917		

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: 01/04/02
Contact: D. A. Heacock
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: December, 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>
December 1, 2001	0000	Began the month in Mode 6
December 9, 2001	0252	Entered Mode 5.
December 13, 2001	2001	Entered Mode 4.
December 14, 2001	0600	Entered Mode 3.
December 15, 2001	0351	Commenced reactor startup.
December 15, 2001	0358	The Unit 2 reactor is critical.
December 15, 2001	0507	Entered Mode 1.
December 15, 2001	0749	The main generator was placed on-line.
December 15, 2001	0910	Unit 2 is at 30% power, 225 MWe.
December 16, 2001	0405	Unit 2 is at 100% power, 962 MWe.
December 22, 2001	1542	Automatic reactor trip from 100% power due to EHC power supply failure. The pressurizer PORVs lifted momentarily and immediately reseated during the transient which is not unexpected for a loss of load event.
December 24, 2001	0315	Commenced reactor startup.
December 24, 2001	0331	Entered Mode 2.
December 24, 2001	0402	The Unit 2 reactor is critical.
December 24, 2001	0508	Entered Mode 1.
December 24, 2001	1849	The main generator was placed on-line.
December 24, 2001	1953	Unit 2 is at 30% power, 240 MWe.
December 25, 2001	0740	Unit 2 is at 100% power, 965 MWe.
December 31, 2001	2400	Ended the month in Mode 1, 100% power, 967 MWe.

Docket No.: 50-339
 Unit Name: North Anna Unit 2
 Date: 01/04/02
 Contact: D. A. Heacock
 Telephone: (540) 894-2101

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

REPORT MONTH: December, 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
N2-2001-005		S	343.8	H	1				Continuation of scheduled shutdown to inspect the reactor head.
N2-2001-006	12/22/01	F	51.1	A	3	01-005	TG	RECT/IS	Automatic reactor trip due to EHC power supply failure. The diode and switch that caused the reactor trip were replaced.

(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)

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