

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

October 9, 1998

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

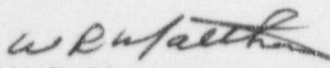
Serial No. 98-608
NAPS/JHL
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNIT NOS. 1 AND 2
MONTHLY OPERATING REPORT

Enclosed is the September 1998 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,


W. R. Matthews
Site Vice President

Enclosure

Commitments made in this letter: None.

cc: U. S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303

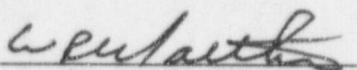
Mr. M. J. Morgan
NRC Senior Resident Inspector
North Anna Power Station

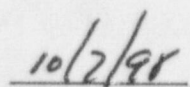
9810140166 980930
PDR ADCK 05000338
R PDR

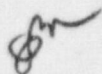
IE24

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT
SEPTEMBER 1998

Approved:


Site Vice President


Date



OPERATING DATA REPORT

Docket No.: 50-338
 Date: 10/05/98
 Contact: W. R. Matthews
 Telephone: (540) 894-2101

1. Unit Name: North Anna Unit 1
 2. Reporting Period: September, 1998
 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): .. 940
 7. Maximum Dependable Capacity (Net MWe): 893

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	177,731.0
12. Hours Reactor Was Critical	289.3	6,120.3	139,375.3
13. Reactor Reserve Shutdown Hours	14.9	14.9	7,109.9
14. Hours Generator On-Line	288.6	6,061.6	136,229.0
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	829,075.8	17,414,868.1	367,949,340.6
17. Gross Electrical Energy Generated (MWH)	269,615.0	5,674,967.0	157,845,620.0
18. Net Electrical Energy Generated (MWH)	256,230.0	5,396,315.0	114,540,498.0
19. Unit Service Factor	40.1%	92.5%	76.6%
20. Unit Availability Factor	40.1%	92.5%	76.6%
21. Unit Capacity Factor (Using MDC Net)	39.9%	92.2%	72.1%
22. Unit Capacity Factor (Using DER Net)	39.2%	90.8%	71.1%
23. Unit Forced Outage Rate	0.0%	1.0%	8.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
 N/A

25. If Shut Down at End of Report Period, Estimated Date of Start-up: October 7, 1998

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: 10/05/98
Contact: W. R. Matthews
Telephone: (540) 894-2101

MONTH: September, 1998

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	892	17	000
2	892	18	000
3	893	19	000
4	893	20	000
5	894	21	000
6	893	22	000
7	893	23	000
8	894	24	000
9	895	25	000
10	898	26	000
11	898	27	000
12	841	28	000
13	001	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: 10/05/98
Contact: W. R. Matthews
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: September 1998

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 01, 1998	0000	Began month in Mode 1, at 100% power, 933 MWe.
September 12, 1998	2015	Commenced ramping Unit 1 off-line for a refueling outage.
September 13, 1998	0038	Opened G-12 breaker. Unit 1 is off-line.
September 21, 1998	1745	Unit 1 is defueled.
September 28, 1998	0214	Unit 1 core on-load is complete.
September 30, 1998	2400	Ended the month in Mode 5.

Docket No.: 50-338
 Unit Name: North Anna Unit 1
 Date: 10/05/98
 Contact: W. R. Matthews
 Telephone: (540) 894-2101

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

REPORT MONTH: September, 1998

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
9-13-98	S	430 hrs. 40 min.	C	1	NA	NA	NA	1998 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 (Explain)

(3)
 METHOD:
 1 - Manual
 2 - Manual Scram
 3 - Automatic Scram
 4 - Other (Explain)

(4)
 Exhibit G - Instructions for Preparation of Data Entry Sheets
 for Licensee Event Report (LER) File (NUREG 0161)

(5)
 Exhibit 1 - Same Source

OPERATING DATA REPORT

Docket No.: 50-339
 Date: 10/05/98
 Contact: W. R. Matthews
 Telephone: (540) 894-2101

1. Unit Name: North Anna Unit 2
2. Reporting Period: September, 1998
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): .. 944
7. Maximum Dependable Capacity (Net MWe): 897
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	155,999.0
12. Hours Reactor Was Critical	703.2	5,864.8	131,579.2
13. Reactor Reserve Shutdown Hours	16.4	57.3	7,241.5
14. Hours Generator On-Line	699.5	5,842.1	130,364.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,011,445.1	16,544,902.6	357,338,082.6
17. Gross Electrical Energy Generated (MWH)	648,867.0	5,372,031.0	116,874,545.0
18. Net Electrical Energy Generated (MWH)	616,337.0	5,103,782.0	111,631,750.0
19. Unit Service Factor	97.1%	89.2%	83.6%
20. Unit Availability Factor	97.1%	89.2%	83.6%
21. Unit Capacity Factor (Using MDC Net)	95.4%	86.9%	79.6%
22. Unit Capacity Factor (Using DER Net)	94.4%	85.9%	78.9%
23. Unit Forced Outage Rate	2.9%	0.3%	4.9%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
None

25. If Shut Down at End of Report Period, Estimated Date of Start-up: N/A

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: 10/05/98
Contact: W. R. Matthews
Telephone: (540) 894-2101

MONTH: September, 1998

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	886	17	759
2	887	18	089
3	386	19	867
4	887	20	884
5	888	21	886
6	887	22	886
7	887	23	886
8	889	24	890
9	890	25	889
10	887	26	888
11	888	27	888
12	890	28	890
13	887	29	890
14	887	30	890
15	886		
16	885		

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: 10/05/98
Contact: W. R. Matthews
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: September 1998

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, 1998	0000	Began the month in Mode 1, 100% power, 933 MWe.
September 17, 1998	2032	Unit 2 reactor trip due to lightning strike
September 18, 1998	0000	Unit stable in Mode 3. Reactor trip recovery in progress.
	1236	Commenced reactor startup.
	1321	Reactor critical.
	1404	Entered Mode 1.
	1705	Unit 2 is on-line.
	2127	Started 2-FW-T-1A. Commenced ramp to 100% power.
September 19, 1998	0410	Unit 2 at 100% power, 933 Mwe.
September 30, 1998	2400	Ended the month in Mode 1, 100% power, 935 MWe.

Docket No.: 50-339
 Unit Name: North Anna Unit 2
 Date: 10/05/98
 Contact: W. R. Matthews
 Telephone: (540) 894-2101

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

REPORT MONTH: September, 1998

Date	(1) Type	Duration Hours	(2) Reason	(3) Method of Shutting Down Rx	LER No.	(4) System Code	(5) Component Code	Cause & Corrective Action to Prevent Recurrence
9-17-98	F	20 hrs. 33 min.	H	3	N2-98- 004-00			Lightning strike caused automatic reactor trip.

(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 (Explain)

(3)
 METHOD:
 1 - Manual
 2 - Manual Scram
 3 - Automatic Scram
 4 - Other (Explain)

(4)
 Exhibit G - Instructions for Preparation of Data Entry Sheets
 for Licensee Event Report (LER) File (NUREG 0161)

(5)
 Exhibit 1 - Same Source