VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 10, 1999

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

Serial No. 99-609
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 November 1999 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

IE24

PDR ADOCK 05000338

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT
NOVEMBER 1999

Approved: _____ Site Vice President

12/10/99 Date

OPERATING DATA REPORT

Docket No.: 50-338
Date: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 1
2. Reporting Period:..... November, 1999
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

		This Month	Year-To-Date	Cumulative
11.	Hours In Reporting Period	720.0	8,016.0	187,956.0
12.	Hours Reactor Was Critical	720.0	8,016.0	149,441.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	7,134.2
14.	Hours Generator On-Line	720.0	8,016.0	146,275.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,082,146.8	23,111,579.8	396,806,608.7
17.	Gross Electrical Energy Generated (MWH)	706,579.0	7,798,099.0	167,555,969.0
18.	Net Electrical Energy Generated (MWH)	673,945.0	7,427,876.0	123,789,114.0
19.	Unit Service Factor	100.0%	100.0%	77.8%
20.	Unit Availability Factor	100.0%	100.0%	77.8%
21.	Unit Capacity Factor (Using MDC Net)	104.8%	103.8%	73.7%
22.	Unit Capacity Factor (Using DER Net)	103.2%	102.2%	72.6%
23.	Unit Forced Outage Rate	0.0%	0.0%	7.5%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
30 day refueling outage scheduled in March 2000

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

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: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

MONTH: November, 1999

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	936	17	935
2	936	18	935
3	936	19	936
4	935	20	937
5	935	21	937
6	936	22	937
7	936	23	937
8	936	24	937
9	935	25	936
10	934	26	937
11	935	27	937
12	937	28	935
13	936	29	937
14	936	30	937
15	936		
16	935		

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: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: November, 1999

SUMMARY OF OPERATING EXPERIENCE

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.

Date	Time	Data
November 1, 1999	0000	Began the month in Mode 1, 100% power, 981 MWe.
November 30, 1999	2400	Ended the month in Mode 1, 100% power, 983 MWe.

Docket No.: 50-338
Unit Name: North Anna Unit 1
Date: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

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

REPORT MONTH: November, 1999

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.

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(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: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

1. Unit Name:..... North Anna Unit 2
2. Reporting Period:..... November, 1999
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

		This Month	Year-To-Date	Cumulative
11.	Hours in Reporting Period	720.0	8,016.0	166,224.0
12.	Hours Reactor Was Critical	720.0	7,355.0	141,143.2
13.	Reactor Reserve Shutdown Hours	0.0	47.5	7,289.0
14.	Hours Generator On-Line	708.0	7,318.7	139,892.0
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,015,807.6	20,763,041.2	384,489,736.9
17.	Gross Electrical Energy Generated (MWH)	675,515.0	6,869,535.0	125,826,451.0
18.	Net Electrical Energy Generated (MWH)	643,632.0	6,533,368.0	120,147,441.0
19.	Unit Service Factor	98.3%	91.3%	84.2%
20.	Unit Availability Factor	98.3%	91.3%	84.2%
21.	Unit Capacity Factor (Using MDC Net)	99.7%	90.9%	80.4%
22.	Unit Capacity Factor (Using DER Net)	98.6%	89.9%	79.7%
23.	Unit Forced Outage Rate	1.7%	0.2%	4.5%

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

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

26. Unit In Test Status (Prior to Commercial Operation):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-339
Unit Name: North Anna Unit 2
Date: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

MONTH: November, 1999

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	918	17	928
2	919	18	929
3	922	19	929
4	925	20	929
5	924	21	929
6	925	22	929
7	926	23	928
8	926	24	928
9	925	25	928
10	657	26	928
11	231	27	929
12	920	28	928
13	927	29	928
14	927	30	924
15	927		
16	927		

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: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: November, 1999

SUMMARY OF OPERATING EXPERIENCE

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.

Date	Time	Data
November 1, 1999	0000	Began the month in Mode 1, 100% power, 972 MWe.
November 10, 1999	1406	Commenced ramping Unit 2 off line to repair turbine trip block diaphragms.
	2153	The main generator was taken off line.
November 11, 1999	0000	Unit 2 is at 12% power and off line.
	0300	Completed repairs to the turbine trip block diaphragms.
	0956	Unit 2 is on line and ramping up in power.
November 12, 1999	0429	Unit 2 is at 100% power, 970 MWe.
November 30, 1999	2400	Ended the month in Mode 1, 100% power, 970 MWe.

Docket No.: 50-339
Unit Name: North Anna Unit 2
Date: 12/05/99
Contact: W. R. Matthews
Telephone: (540) 894-2101

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

REPORT MONTH: November, 1999

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
11-10-99	F	12.0	B	Unit 2 was ramped down to 12% power	NA	NA	NA	Replacement of turbine trip block diaphragms.

(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

(5)
Exhibit 1 - Same Source