VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 7, 1997

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

Serial No. 97-288
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 April 1997 Monthly Operating Report for North Anna Power Station Unit 1 and 2.

Very truly yours,

W. R. Matthews
Station Manager

Enclosure

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

NRC Senior Resident Inspector
North Anna Power Station

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: April YEAR: 1997

Approved:

JRH Station Manager

OPERATING DATA REPORT

DOCKET NO.: 50-338
DATE: May 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

OPERATING STATUS

1.	Unit Name:	North Anna 1
2.	Reporting Period:	April 1997
3.	Licensed Thermal Power (MWt):	2,893
4.	Nameplate Rating (Gross MWe):	994
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 to Capacity Ratings (Items 3 thru 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	Y-t-D	Cumulative
11.	Hours in Reporting Period	720.0	2,880.0	165,300.0
12.	Number of Hours Reactor was Critical	720.0	2,880.0	128,097.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	7,046.0
14.	Hours Generator On-Line	720.0	2,880.0	125,053.8
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,079,207.4	8,325,771.9	335,906,308.5
17.	Gross Electrical Energy Generated (MWH)	681,782.0	2,728,067.0	107,370,753.0
18.	Net Electrical Energy Generated (MWH)	649,799.0	2,597,708.0	104,584,362.0
19.	Unit Service Factor	100.0%	100.0%	75.7%
20.	Unit Availability Factor	100.0%	100.0%	75.7%
21.	Unit Capacity Factor (using MDC Net)	101.1%	101.0%	70.8%
22.	Unit Capacity Factor (using DER Net)	99.5%	99.4%	69.8%
23.	Forced Outage Rate	0.0%	0.0%	8.6%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, Duration of Each): Scheduled Refueling Outage beginning May 11, 1997, duration=35 days.

25. If Shutdown at end of Report Period, estimated time of Startup: N/A

26. Units 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:	NA-1
Date:	May 5, 1997
Contact:	W. R. Matthews
Phone:	(540) 894-2101

MONTH: April 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	903	17	907
2	903	18	907
3	903	19	908
4	903	20	907
5	903	21	903
6	902	22	903
7	902	23	903
8	903	24	903
9	903	25	899
10	903	26	903
11	903	27	904
12	903	28	902
13	903	29	903
14	907	30	903
15	907		
16	907		

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.

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: April

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
April 01, 1997	0000	Began month with unit at 100% power, 949 MWe.
April 25, 1997	0933	Commence unit ramp down for performance of Turbine Valve Freedom Test (TVFT) from 100% power, 950 MWe.
	1015	Unit stable at 91.9% power, 879 MWe.
	1039	TVFT complete satisfactorily. Commence unit ramp to 100% power.
	1153	Unit stable at 100% power, 946 MWe.
April 30, 1997	2400	Ended month with unit stable at 100% power, 949 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month April Unit Name: NA-1

Year: 1997 Date: May 5, 1997

Contact: W. R. Matthews

* No entries this month.

UNIT SHUTDOWS AND POWER REDUCTIONS

DOCKET NO.: 50-338
UNIT NAME: NA-1
DATE: May 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

REPORT MONTH: April 1997

No.	Date	1 Type	Duration (hrs)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	Component Code	5 Cause & Corrective Action to Prevent Recurrence
* No entries this month.									

1: Type
F=Forced
S=Scheduled

2: Reason
A=Equipment Failure (explain)
B=Maintenance or Test
C=Refueling
D=Regulatory Restriction
E=Operator Training & License 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 F - 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: May 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

OPERATING STATUS

1.	Unit Name:	North Anna 2
2.	Reporting Period:	April 1997
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 to Capacity Ratings (Items 3 thru 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	Y-t-D	Cumulative
11.	Hours in Reporting Period	720.0	2,880.0	143,568.0
12.	Number of Hours Reactor was Critical	720.0	2,880.0	119,835.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	7,162.2
14.	Hours Generator On-Line	720.0	2,880.0	118,664.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,079,415.6	8,324,016.2	323,905,934.2
17.	Gross Electrical Energy Generated (MWH)	681,621.0	2,730,115.0	105,999,350.0
18.	Net Electrical Energy Generated (MWH)	649,866.0	2,601,177.0	101,294,359.0
19.	Unit Service Factor	100.0%	100.0%	82.7%
20.	Unit Availability Factor	100.0%	100.0%	82.7%
21.	Unit Capacity Factor (using MDC Net)	100.6%	100.7%	78.5%
22.	Unit Capacity Factor (using DER Net)	99.5%	99.6%	77.8%
23.	Forced Outage Rate	0.0%	0.0%	5.3%

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

25. If Shutdown at end of Report Period, estimated time of Startup: N/A

26. Units 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:	NA-2
Date:	May 5, 1997
Contact:	W. R. Matthews
Phone:	(540) 894-2101

MONTH: April 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	903	17	907
2	902	18	907
3	902	19	908
4	901	20	908
5	902	21	904
6	902	22	904
7	902	23	903
8	903	24	903
9	904	25	903
10	904	26	903
11	899	27	903
12	903	28	902
13	904	29	903
14	909	30	903
15	908		
16	907		

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.

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: April

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
April 01, 1997	0000	Began month in Mode 1 at 100% power, 948 MWe.
April 09, 1997	0710	Received Defoaming Tank Level - High annunciator 2T-C3.
	1010	Received water detection annunciator for 2-GM-LS-211-3. Investigation revealed oil in detector versus water.
	1118	Commenced unit ramp per step 2.3 of annunciator response 2-AR-T-B2 (Water Detector High) from 100% power, 949 MWe. Ramping at 0.3% per hour.
	1144	Performing change to annunciator response for water detector high 2-AR-T-B2 in accordance with Westinghouse memorandum stating that operation is allowed with limited amount of continuous oil ingress. Ramp terminated at 97.2% power, 924 MWe.
	1156	Commenced ramp to 100% power from 97%, 920 MWe.
	1236	Unit stable at 100% power, 948 MWe.
April 11, 1997	1005	Commenced unit ramp down for Turbine Valve Freedom Test (TVFT) from 100% power, 948 MWe.
	1039	Unit stable at 91% power, 875 MWe.
	1121	TVFT complete satisfactorily.
	1127	Commenced ramp to full power after TVFT from 91% power, 875 MWe.
	1147	Stopped ramp at 97.5% power, 933 MWe for resolution on #4 Governor valve stroke.

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: April

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
April 11, 1997	1159	Recommenced ramp to 100% power.
	1210	Unit stable at 100% power, 942 MWe.
April 30, 1997	2400	Ended month in Mode 1 at 100% power, 947 MWe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-339

Report Month April Unit Name: NA-2

Year: 1997 Date: May 5, 1997

Contact: W. R. Matthews

* No entries this month.

UNIT SHUTDOWS AND POWER REDUCTIONS

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE: May 5, 1997
CONTACT: W. R. Matthews
PHONE: (540) 894-2101

REPORT MONTH: April 1997

No.	Date	1 Type	Duration (hrs)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	Component Code	5 Cause & Corrective Action to Prevent Recurrence
*	No entries this month.								

1: Type
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