VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

September 11, 1997

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

Serial No. 97-524
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 August 1997 Monthly Operating Report for North Anna Power Station Units 1 and 2.

Very truly yours,

W. R. Matthews
Station Manager

Enclosure

IE24

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

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: August YEAR: 1997

Approved:

Station Manager

OPERATING DATA REPORT

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

OPERATING STATUS

1.	Unit Name:	North Anna 1
2.	Reporting Period:	August 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	744.0	5,831.0	168,251.0
12.	Number of Hours Reactor was Critical	744.0	5,108.8	130,326.0
13.	Reactor Reserve Shutdown Hours	0.0	49.0	7,095.0
14.	Hours Generator On-Line	744.0	5,064.6	127,238.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,151,020.1	14,487,644.0	342,068,180.6
17.	Gross Electrical Energy Generated (MWH)	703,495.0	4,749,804.0	149,392,490.0
18.	Net Electrical Energy Generated (MWH)	667,927.0	4,515,118.0	106,501,772.0
19.	Unit Service Factor	100.0%	86.9%	75.6%
20.	Unit Availability Factor	100.0%	86.9%	75.6%
21.	Unit Capacity Factor (using MDC Net)	102.5%	86.7%	70.8%
22.	Unit Capacity Factor (using DER Net)	99.0%	85.4%	69.8%
23.	Forced Outage Rate	0.0%	0.0%	8.6%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, Duration of Each: 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.:	50-338
Unit:	NA-1
Date:	September 5, 1997
Contact:	W. R. Matthews
Phone:	(540) 894-2101

MONTH: August 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	898	17	896
2	899	18	895
3	898	19	897
4	897	20	898
5	885	21	898
6	898	22	899
7	898	23	899
8	899	24	899
9	896	25	900
10	899	26	900
11	898	27	900
12	898	28	898
13	898	29	899
14	897	30	899
15	898	31	900
16	898		

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: August

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
August 01, 1997	0000	Began month in Mode 1 at 100% power, 949 Mwe.
August 02, 1997	1615	Lowered unit power due to 1B FW heater level oscillations, 99 % power 930 Mwe.
August 02, 1997	1630	Increased unit power after correction to level control valve 1B FW Heater level, 100% power, 946 Mwe.
August 04, 1997	2237	Commenced ramp down of unit for maintenance on 1B feedwater level control valve . 98% power 925 Mwe.
August 05, 1997	1338	Commenced ramp up to 100%. 98% power, 936 Mwe.
August 05, 1997	1355	Unit stable at 100% power, 945 Mwe.
August 09, 1997	0028	Commenced ramp to 890 Mwe for turbine valve freedom test.
August 09, 1997	0102	Stopped unit ramp at 93% power, 890 Mwe .
August 09, 1997	0136	Completed TVFT, ramping to 100% power.
August 09, 1997	0243	Unit stable at 100 % power, 946 Mwe.
August 31, 1997	2400	Ended month in mode 1 at 100 % power, 949 Mwe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month August Unit Name: NA-1

Year: 1997 Date: September 5, 1997

Contact: W. R. Matthews

* No entries this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH: August 1997

No.	Date	1 Type	Duration (hrs)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	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: September 5, 1997
CONTACT: M. R. Matthews
PHONE: (540) 894-2101

OPERATING STATUS

1.	Unit Name:	North Anna 2
2.	Reporting Period:	August 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	744.0	5,831.0	146,519.0
12.	Number of Hours Reactor was Critical	744.0	5,831.0	122,786.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	7,162.2
14.	Hours Generator On-Line	744.0	5,831.0	121,615.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,151,590.3	16,861,474.7	332,443,392.7
17.	Gross Electrical Energy Generated (MWH)	699,494.0	5,509,391.0	108,770,626.0
18.	Net Electrical Energy Generated (MWH)	664,611.0	5,243,548.0	103,936,730.0
19.	Unit Service Factor	100.0%	100.0%	83.0%
20.	Unit Availability Factor	100.0%	100.0%	83.0%
21.	Unit Capacity Factor (using MDC Net)	99.6%	100.3%	79.3%
22.	Unit Capacity Factor (using DER Net)	98.5%	99.1%	78.2%
23.	Forced Outage Rate	0.0%	0.0%	5.2%

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: September 5, 1997
Contact: W. R. Matthews
Phone: (540) 894-2101

MONTH: August 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	894	17	891
2	892	18	891
3	893	19	892
4	893	20	893
5	894	21	893
6	895	22	893
7	895	23	893
8	894	24	894
9	894	25	893
10	895	26	893
11	894	27	894
12	893	28	893
13	893	29	892
14	893	30	894
15	893	31	894
16	892		

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: August

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
August 01, 1997	0000	Began month in Mode 1 at 100% power, 943 Mwe.
August 01, 1997	2310	Commenced ramp down to 870 Mwe for turbine valve freedom test, from 100 % power, 938.5 Mwe.
August 02, 1997	0009	Completed TVFT, commenced ramp up to 100% power from 91 % power .
August 02, 1997	0102	Unit stable at 100 % power, 937 Mwe.
August 29, 1997	2254	Commenced unit ramp down for turbine valve freedom test, from 100% power, 936 Mwe.
August 29, 1997	2359	Completed TVFT, ramping unit to 100 % power from 95 % power, 893 Mwe .
August 30, 1997	0136	Unit stable at 100 % power, 944 Mwe .
August 31, 1997	2400	Ended month in Mode 1 at 100% power, 943 Mwe.

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-339

Report Month August Unit Name: NA-2

Year: 1997 Date: September 5, 1997

Contact: W. R. Matthews

* No entries this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH: August 1997

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

* No entries this month.

1: Type
F=Forced
S=Scheduled

2: Reason
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G=Operational Error
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3: Method
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