

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

September 11, 1997

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

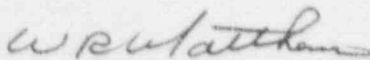
Serial No. 97-524  
NAPS/JHL  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

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

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

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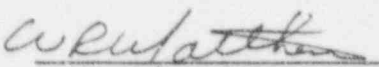


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VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH: August YEAR: 1997

Approved:

  
Station Manager



# OPERATING DATA REPORT

DOCKET NO.: 50-338  
 DATE: September 5, 1997  
 CONTACT: W. R. Matthews  
 PHONE: (340) 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	5,069.6	127,238.4
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MMWh)	2,151,020.1	14,485,644.0	342,068,180.6
17. Gross Electrical Energy Generated (MMWh)	703,495.0	4,749,804.0	149,392,490.0
18. Net Electrical Energy Generated (MMWh)	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)	107.5%	86.7%	70.8%
22. Unit Capacity Factor (using DER Net)	95.0%	85.4%	69.8%
23. Forced Outage Rate	0.0%	0.0%	0.6%

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: AugustSUMMARY 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>
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

REPORT MONTH: August 1997

DOCKET NO.: 50-338

UNIT NAME: NA-1

DATE: September 5, 1997

CONTACT: W. R. Matthews

PHONE: (540) 894-2101

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: W. 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	108,779,626.0
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):	99.8%	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)
1	894
2	892
3	893
4	893
5	894
6	895
7	895
8	894
9	894
10	895
11	894
12	893
13	893
14	893
15	893
16	892

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	891
18	891
19	892
20	893
21	893
22	893
23	893
24	894
25	893
26	893
27	894
28	893
29	892
30	894
31	894

## 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

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>
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

REPORT MONTH: August 1997

DOCKET NO.: 50-339

UNIT NAME: NA-2

DATE: September 5, 1997

CONTACT: W. R. Matthews

PHONE: (540) 894-2101

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

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D=Regulatory Restriction

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## 3: Method

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