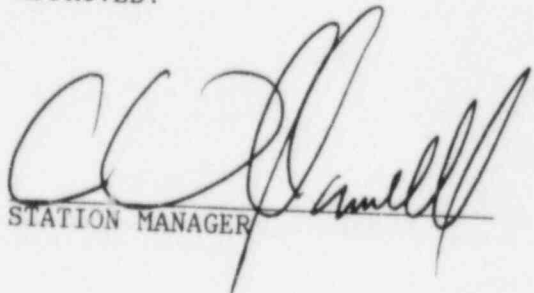


VIRGINIA POWER  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH July YEAR 1985

APPROVED:

  
STATION MANAGER

8510020071 850731  
PDR ADDCK 05000338  
R PDR

IC24  
1/1

# OPERATING DATA REPORT

DOCKET NO. 50-338  
 DATE 08-05-85  
 COMPLETED BY Brenda Garner  
 TELEPHONE (703) 894-5151 X2527

## OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: July, 1985
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 941
7. Maximum Dependable Capacity (Net MWe): 893
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons:

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5087	62,315
12. Number of Hours Reactor Was Critical	744	5087	43,458.7
13. Reactor Reserve Shutdown Hours	0	0	3,084.2
14. Hours Generator On-Line	744	5,059.8	42,172
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,064,532	13,728,039	110,587,701
17. Gross Electrical Energy Generated (MWH)	692,371	4,625,591	35,997,776
18. Net Electrical Energy Generated (MWH)	657,721	4,396,257	34,012,235
19. Unit Service Factor	100.0	99.5	67.7
20. Unit Availability Factor	100.0	99.5	67.7
21. Unit Capacity Factor (Using MDC Net)	98.9	96.9	62.0
22. Unit Capacity Factor (Using DER Net)	97.4	95.3	60.2
23. Unit Forced Outage Rate	0	0.5	9.3
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling, November 1, 1985, 48 days.

25. If Shut Down At End Of Report Period, Estimated Date of Startup:
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast

Achieved

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 08-05-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH July, 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>884</u>	17	<u>885</u>
2	<u>888</u>	18	<u>885</u>
3	<u>887</u>	19	<u>885</u>
4	<u>886</u>	20	<u>884</u>
5	<u>887</u>	21	<u>883</u>
6	<u>887</u>	22	<u>884</u>
7	<u>887</u>	23	<u>884</u>
8	<u>886</u>	24	<u>884</u>
9	<u>886</u>	25	<u>880</u>
10	<u>886</u>	26	<u>872</u>
11	<u>882</u>	27	<u>872</u>
12	<u>886</u>	28	<u>878</u>
13	<u>887</u>	29	<u>884</u>
14	<u>887</u>	30	<u>886</u>
15	<u>885</u>	31	<u>885</u>
16	<u>885</u>		

## 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.

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET      DOCKET NO. 50-338

REPORT MONTH July      UNIT NAME NA-1

YEAR 1985      DATE 08-05-85

COMPLETED BY Brenda Garner

No entry this month.

VIRGINIA POWER  
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH July

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.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
July 1, 1985	0000	Began this month with Unit at 931 MW - 100% power.
July 31, 1985	2400	Ended this month with Unit at 927 MW 100% power.

# OPERATING DATA REPORT

DOCKET NO. 50-339  
 DATE 08-05-85  
 COMPLETED BY Brenda Garner  
 TELEPHONE (703) 894-5151 X2527

## OPERATING STATUS

1. Unit Name: North Anna 2
2. Reporting Period: July, 1985
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 941
7. Maximum Dependable Capacity (Net MWe): 893
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons:

Notes:

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5087	40,583
12. Number of Hours Reactor Was Critical	679.2	4963.4	30,753.8
13. Reactor Reserve Shutdown Hours	64.8	93.3	4,079.14
14. Hours Generator On-Line	657.3	4736	30,141.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,709,080	12,104,277	77,604,518
17. Gross Electrical Energy Generated (MWH)	563,514	4,022,336	25,719,601
18. Net Electrical Energy Generated (MWH)	533,551	3,812,067	24,381,329
19. Unit Service Factor	88.3	93.1	74.3
20. Unit Availability Factor	88.3	93.1	74.3
21. Unit Capacity Factor (Using MDC Net)	80.3	84.0	67.5
22. Unit Capacity Factor (Using DER Net)	79.1	82.6	66.2
23. Unit Forced Outage Rate	11.7	6.9	12.3
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 Startup:
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 08-05-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH July

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>867</u>	17	<u>873</u>
2	<u>831</u>	18	<u>873</u>
3	<u>879</u>	19	<u>874</u>
4	<u>875</u>	20	<u>874</u>
5	<u>875</u>	21	<u>874</u>
6	<u>875</u>	22	<u>873</u>
7	<u>875</u>	23	<u>871</u>
8	<u>875</u>	24	<u>871</u>
9	<u>876</u>	25	<u>370</u>
10	<u>878</u>	26	<u>0</u>
11	<u>876</u>	27	<u>0</u>
12	<u>879</u>	28	<u>0</u>
13	<u>877</u>	29	<u>120</u>
14	<u>874</u>	30	<u>178</u>
15	<u>873</u>	31	<u>627</u>
16	<u>872</u>		

## 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.

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET      DOCKET NO. 50-339

REPORT MONTH July      UNIT NAME NA-2

YEAR 1985      DATE 08-05-85

COMPLETED BY Brenda Garner

85-39

- 1) On July 25, 1985, at 1645 Unit 2 taken off line due to high Reactor Coolant System unidentified leakage. 2-RC-6 valve was repaired and Unit returned to 100% power on July 31, 1985 at 1233.



## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339

UNIT NAME North Anna 2

DATE 08-05-85

COMPLETED BY Brenda Garner

TELEPHONE (703) 894-5151 X2527

REPORT MONTH July

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
85-37	850701	S	NA	H	5	NA	NA	NA	Ramped down to 88% power for load follow. Unit returned to 100% power.
85-38	850702	S	NA	H	5	NA	NA	NA	Ramped down to 68% power for load follow. Unit returned to 100% power.
85-39	850725	F	86.7	A	1	NA	NA	NA	Ramped Unit 2 off line for high Reactor Coolant System unidentified leakage. Unit returned to 100% power.

1

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 (Explain)  
 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)

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Exhibit H - Same Source

VIRGINIA POWER  
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH July

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.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
July 1, 1985	0000	Began this month with Unit at 930 MW - 100% power.
	0344	Commenced rampdown of 100 MW for Load follow.
	0421	Unit holding at 830 MW - 88% power for load follow.
	0441	Commenced ramp up to 100% power.
	0515	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric.
	0545	Commenced ramp up to 100 % power, 2-PT-24 calorimetric complete.
	0555	Unit stabilized at 932 MW - 100% power.
July 2, 1985	0141	Commenced rampdown of 300 MW for load follow.
	0325	Unit holding at 600 MW - 68% power for load follow.
	0501	Commenced ramp up to 100% power.
	0619	Unit holding at 832 MW - 90% power for 2-PT-24 calorimetric.
	0635	Commenced ramp up to 100% power, 2-PT-24 calorimetric complete.
	0750	Unit stabilized at 932 MW - 100% power.

VIRGINIA POWER  
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH July

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.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
July 25, 1985	0740	Commenced rampdown to 30% power due to high Reactor Coolant System unidentified leakage.
	1048	Unit stabilized at 30% power 232 MW
	1200	Commenced rampdown to 10% power to repair 2-RC-6 valve leakage.
	1252	Unit stabilized at 10% power 75 MW.
	1645	Unit off line in Mode 2.
	1648	Reactor shutdown in Mode 3
July 28, 1985	0932	Repairs to 2-RC-6 made. Reactor critical.
July 29, 1985	0738	Unit on line.
	0845	Unit holding at 30% power - 218 MW for Chemistry.
July 31, 1985	0550	Commenced ramp up to 100% power.
	0950	Unit holding at 90% power - 832 MW for 2-PT-24 calorimetric.
	1113	Commenced ramp up to 100%, 2-PT-24 calorimetric completed.
	1233	Unit stabilized at 910 MW, 100% power.
July 31, 1985	2400	Ended this month with unit at 910 MW - 100% power.

WILLIAM L. STEWART  
Vice President  
Nuclear Operations

Nuclear Operations Department  
Post Office Box 26666  
One James River Plaza  
Richmond, Virginia 23261

August 15, 1985



VIRGINIA POWER

Mr. Maurice R. Beebe  
Office of Resource Management  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Serial No. 85-590  
NO/ALM:acm  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Dear Mr. Beebe:

VIRGINIA POWER  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

Enclosed is the Monthly Operating Report for North Anna Power Station Unit Nos. 1 and 2 for the month of July, 1985.

Very truly yours,

W. L. Stewart

Enclosure (3 copies)

cc: Mr. J. M. Taylor, Director (12 copies)  
Office of Inspection and Enforcement

Dr. J. Nelson Grace (1 copy)  
Regional Administrator  
Region II

Mr. M. W. Branch  
NRC Resident Inspector  
North Anna Power Station

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