

VIRGINIA POWER COMPANY  
NORTH ANNA POWER STATION  
MONTHLY OPERATING REPORT

MONTH August YEAR 1985

APPROVED:

  
\_\_\_\_\_  
STATION MANAGER  
*for*

8511190080 850913  
PDR ADDCK 05000338  
R PDR

IE24  
1/1

# OPERATING DATA REPORT

DOCKET NO. 50-338  
DATE 09-03-85  
COMPLETED BY Brenda Garner  
TELEPHONE (703) 894-5151 X2527

## OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: August, 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	5,831	63,059
12. Number of Hours Reactor Was Critical	427.5	5,514.5	43,886.2
13. Reactor Reserve Shutdown Hours	316.5	316.5	3,400.7
14. Hours Generator On-Line	395.5	5,455.3	42,567.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	950,419	14,678,458	111,538,120
17. Gross Electrical Energy Generated (MWH)	319,535	4,945,126	36,317,311
18. Net Electrical Energy Generated (MWH)	302,417	4,698,674	34,314,652
19. Unit Service Factor	53.2	93.6	67.5
20. Unit Availability Factor	53.2	93.6	67.5
21. Unit Capacity Factor (Using MDC Net)	45.5	90.3	61.9
22. Unit Capacity Factor (Using DER Net)	44.8	88.8	60.0
23. Unit Forced Outage Rate	46.9	6.4	11.2
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling, 11-01-85, 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 09-03-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH August, 1985

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>885</u>
2	<u>870</u>
3	<u>43</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>67</u>
18	<u>248</u>
19	<u>248</u>
20	<u>465</u>
21	<u>880</u>
22	<u>887</u>
23	<u>888</u>
24	<u>891</u>
25	<u>890</u>
26	<u>890</u>
27	<u>891</u>
28	<u>891</u>
29	<u>890</u>
30	<u>890</u>
31	<u>890</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 August      UNIT NAME NA-1

YEAR 1985      DATE 09-03-85

COMPLETED BY Brenda Garner

85-16      1      On August 3, 1985 at 0415 Unit 1 taken off line due to 'A' steam generator tubes. Repairs were made and Unit returned on line August 17, 1985 at 1644. August 20, 1985 at 2049 Unit 1 was at 100% power.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338  
UNIT NAME North Anna 1  
DATE 09-03-85  
COMPLETED BY Brenda Garner  
TELEPHONE (703) 894-5151 X2527

REPORT MONTH August, 1985

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
85-16	850803	S	348.5	B	1	NA	NA	NA	Ramped Unit 1 off line to repair 'A' steam generator tubes. 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)

5

Exhibit H - Same Source

VIRGINIA POWER  
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.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
August 1, 1985	0000	Began this month with Unit at 928 MW-100% power
August 2, 1985	2135	Commenced rampdown to 0% power to repair 'A' steam generator tubes.
August 3, 1985	0415	Unit off line
	0442	Reactor shutdown
August 16, 1985	0915	Reactor critical
	1040	Unit at 4.5% power
August 17, 1985	1644	Unit on line
	1810	Unit holding at 275 MW-30% power for chemistry
August 20, 1985	1215	Commenced ramp up to 100% power
	1742	Unit holding at 841 MW-90% power for 1-PT-24 calorimetric
	1810	Calorimetric, 1-PT-24, complete
	2015	Commenced ramp up to 100% power
	2049	Unit stabilized at 925 MW-100% power.
August 31, 1985	2400	Ended this month with Unit at 925 MW-100% power.

# OPERATING DATA REPORT

DOCKET NO. 50-339  
DATE 09-03-85  
COMPLETED BY Brenda Garner  
TELEPHONE (703) 894-5151 X2527

## OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: August, 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	5,831	41,327
12. Number of Hours Reactor Was Critical	744	5,707.4	31,497.8
13. Reactor Reserve Shutdown Hours	0	93.3	4,079.14
14. Hours Generator On-Line	744	5,480	30,885.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,032,025	14,136,302	79,636,543
17. Gross Electrical Energy Generated (MWH)	670,136	4,692,472	26,389,737
18. Net Electrical Energy Generated (MWH)	636,110	4,448,177	25,017,439
19. Unit Service Factor	100.0	94.0	74.7
20. Unit Availability Factor	100.0	94.0	74.7
21. Unit Capacity Factor (Using MDC Net)	95.7	85.5	68.0
22. Unit Capacity Factor (Using DER Net)	94.3	84.1	66.7
23. Unit Forced Outage Rate	0	6.0	12.0
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 09-03-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>867</u>	17	<u>873</u>
2	<u>811</u>	18	<u>874</u>
3	<u>863</u>	19	<u>874</u>
4	<u>859</u>	20	<u>873</u>
5	<u>847</u>	21	<u>873</u>
6	<u>701</u>	22	<u>875</u>
7	<u>716</u>	23	<u>875</u>
8	<u>873</u>	24	<u>891</u>
9	<u>874</u>	25	<u>890</u>
10	<u>874</u>	26	<u>875</u>
11	<u>874</u>	27	<u>875</u>
12	<u>875</u>	28	<u>875</u>
13	<u>872</u>	29	<u>874</u>
14	<u>867</u>	30	<u>865</u>
15	<u>867</u>	31	<u>769</u>
16	<u>870</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 August      UNIT NAME NA-2

YEAR 1985      DATE 09-03-85

COMPLETED BY Brenda Garner

No entries this month

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339  
 UNIT NAME North Anna 2  
 DATE 09-03-85  
 COMPLETED BY Brenda Garner  
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH August

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
85-40	850802	S	NA	H	5	NA	NA	NA	Ramped down to 71% power for load follow. Unit returned to 100% power.
85-41	850805	S	NA	B	9	NA	NA	NA	Ramped down to 83% power for repairs on B Train Feedwater Heater. Unit returned to 100% power.
85-42	850830	S	NA	H	5	NA	NA	NA	Ramped down to 56% power for Turbine Valve Freedom Test. Unit returned to 100% power.

\*REVISED

1	2	3	4
F: Forced	Reason:	Method:	Exhibit F - Instructions
S: Scheduled	A-Equipment Failure (Explain)	1-Manual	for Preparation of Data
	B-Maintenance or Test	2-Manual Scram.	Entry Sheets for Licensee
	C-Refueling	3-Automatic Scram	Event Report (LER) File
	D-Regulatory Restriction	4-Continuations	(NUREG-0161)
	E-Operator Training & License Examination	5-Load Reduction	
	F-Administrative	9-Other	
	G-Operational Error (Explain)		5
	H-Other (Explain)		Exhibit H - Same Source

VIRGINIA POWER  
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.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
August 1, 1985	0000	Began this month with Unit at 910 MW - 100% power.
August 2, 1985	0056	Commenced rampdown of 260 MW for Load follow.
	0245	Unit holding at 644 MW - 71% power for load follow.
	0410	Commenced ramp up to 100% power.
	0418	Unit holding at 665 MW - 73% power, per System Operator.
	0516	Commenced ramp up to 100 % power.
	0615	Unit holding at 818 MW - 88% power per System Operator.
	0740	Commenced ramp up to 100% power.
	0822	Unit stabilized at 910 MW - 100% power.
August 5, 1985	2130	Commenced rampdown of 150 MW per hour to 750 MW for 'B' Train Feedwater Heater
	2250	Unit holding at 750 MW - 83% power for repairs on 'B' Train Feedwater Heater.
August 7, 1985	2130	Commenced ramp up to 100% power, 'E' Train Feedwater Heater repairs complete.
	2250	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric.
	2325	Unit stabilized at 932 MW - 100% power, 2-PT-24 calorimetric complete.

VIRGINIA POWER  
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.

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
August 30, 1985	2320	Commenced rampdown for 2-PT-34.3, Turbine Valve Freedom Test.
	2340	Unit holding at 860 MW - 92% power.
August 31, 1985	0045	Turbine Valve Freedom Test, 2-PT-34.3 completed.
	0204	Commenced rampdown of 200 MW per System Operator for load follow
	0324	Commenced rampdown of 100 MW for load follow
	0350	Commenced rampdown of 50 MW for load follow
	0410	Unit holding at 500 MW 56% power for load follow
August 31, 1985	0600	Commenced ramp up to 100% power.
	0640	Unit holding at 600 MW - 66% power
	0757	Commenced ramp up to 100%
	1000	Unit stabilized at 914 MW, 100% power.
	2400	Ended this month with unit at 914 MW - 100% power.