

VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH June YEAR 1985

APPROVED:


STATION MANAGER

B509110064 B50630
PDR ADOCK 05000338
R PDR

IE24

11

OPERATING DATA REPORT

DOCKET NO. 50-338
 DATE 07-01-85
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: June, 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

Gross was changed in April.

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	720	4,343	61,571
12. Number of Hours Reactor Was Critical	720	4,343	42,714.7
13. Reactor Reserve Shutdown Hours	0	0	3,084.2
14. Hours Generator On-Line	720	4,315.8	41,428
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,979,596	11,663,507	108,523,169
17. Gross Electrical Energy Generated (MWH)	663,618	3,933,220	35,305,405
18. Net Electrical Energy Generated (MWH)	630,990	3,738,536	33,354,514
19. Unit Service Factor	100.0	99.4	67.2
20. Unit Availability Factor	100.0	99.4	67.2
21. Unit Capacity Factor (Using MDC Net)	98.1	96.5	61.6
22. Unit Capacity Factor (Using DER Net)	96.6	94.9	59.7
23. Unit Forced Outage Rate	0	0.6	9.3
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Refueling, 11-1-85, 48 days

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

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 07-01-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH June, 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>890</u>	17	<u>886</u>
2	<u>890</u>	18	<u>887</u>
3	<u>887</u>	19	<u>887</u>
4	<u>885</u>	20	<u>887</u>
5	<u>887</u>	21	<u>887</u>
6	<u>887</u>	22	<u>823</u>
7	<u>887</u>	23	<u>742</u>
8	<u>881</u>	24	<u>882</u>
9	<u>858</u>	25	<u>883</u>
10	<u>884</u>	26	<u>883</u>
11	<u>882</u>	27	<u>884</u>
12	<u>883</u>	28	<u>883</u>
13	<u>883</u>	29	<u>851</u>
14	<u>885</u>	30	<u>887</u>
15	<u>885</u>	31	<u></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 June UNIT NAME NA-1

YEAR 1985 DATE 07-01-85

COMPLETED BY Brenda Garner

On June 22, 1985 at 1420 commenced rampdown for maintenance on 5A FW Heater. Repairs were made and Unit 1 returned to 100% power on June 23, 1985 at 1308.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338
 UNIT NAME North Anna 1
 DATE 07-01-85
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH June, 1985

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
85-13	850608	S	NA	H	5	NA	NA	NA	Rampdown to 90% power for Turbine Valve Freedom Test. Unit returned to 100% power.
85-14	850622	F	NA	B	9	NA	NA	NA	Rampdown to 66% power for Maintenance on 5A FW Heater. Unit returned to 100% power.
85-15	850628	S	NA	H	5	NA	NA	NA	Ramped down to 90% power for Turbine Valve Freedom Test. 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 June

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>
June 1, 1985	0000	Began this month with Unit at 934 MW - 100% power.
June 8, 1985	2113	Commenced rampdown to 870 MW - 93% power for Turbine Valve Freedom Test
	2225	Commenced rampdown to 858 MW - 90% power for Turbine Valve Freedom Test
	2315	Turbine Valve Freedom Test completed.
June 9, 1985	0315	Unit holding at 858 MW - 90% power per System Operator for load follow.
	0643	Commenced ramp up to 100% power.
	0700	Unit holding at 922 MW - 98% power for 1-PT-24 calorimetric.
	0719	Commenced ramp up to 100% power 1-PT-24 calorimetric completed.
	0734	Unit stabilized at 930 MW - 100% power.
June 22, 1985	1420	Commenced rampdown of 90 MW to remove 5A FW Heater for maintenance
	1509	Unit holding at 840 MW - 90% power.
	1720	Reduced power to 83% for 5A FW heater maintenance.
	2125	Commenced rampdown of 140 MW for maintenance on 5A FW Heater
	2158	Unit holding at 700 MW - 75% power.

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH June

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>
June 22, 1985	2305	Unit holding at 598 MW - 66% power for maintenance on 5A FW Heater.
June 23, 1985	0905	Commenced ramp up to 100% power. 5A FW heater repaired.
	1135	Unit holding at 840 MW - 90% power for 1-PT-24 calorimetric.
	1145	Commenced ramp up to 100% power, 1-PT-24 calorimetric completed.
	1308	Unit stabilized at 925 MW - 100% power.
June 28, 1985	2243	Commenced rampdown of 65 MW for Turbine Valve Freedom Test.
June 29, 1985	0142	Unit holding at 865 MW - 90% power per System Operator, Turbine Valve Freedom Test completed.
	0326	Commenced ramp up to 100% power.
	0407	Unit holding at 880 MW - 95% power per System Operator.
	0511	Commenced ramp up to 100% power.
	0526	Unit holding at 900 MW - 98% power for 1-PT-24 calorimetric.
	0546	Commenced ramp up to 100% power, 1-PT-24 calorimetric completed.
	0600	Unit stabilized at 913 MW - 100% power.

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH June

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>
June 30, 1985	2400	Ended this month with Unit at 100% power.

OPERATING DATA REPORT

DOCKET NO. 50-339
 DATE 07-01-85
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: June, 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	720	4,343	39,839
12. Number of Hours Reactor Was Critical	720	4,284.2	30,074.6
13. Reactor Reserve Shutdown Hours	0	28.5	4,014.3
14. Hours Generator On-Line	720	4,078.7	29,483.8
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,987,889	10,395,197	75,895,438
17. Gross Electrical Energy Generated (MWH)	661,712	3,458,822	25,156,087
18. Net Electrical Energy Generated (MWH)	628,914	3,278,516	23,847,778
19. Unit Service Factor	100.0	93.9	74.0
20. Unit Availability Factor	100.0	93.9	74.0
21. Unit Capacity Factor (Using MDC Net)	97.8	84.5	67.0
22. Unit Capacity Factor (Using DER Net)	96.3	83.2	65.9
23. Unit Forced Outage Rate	0	6.1	12.2
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 07-01-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH June

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>876</u>	17	<u>879</u>
2	<u>879</u>	18	<u>879</u>
3	<u>879</u>	19	<u>879</u>
4	<u>878</u>	20	<u>879</u>
5	<u>878</u>	21	<u>850</u>
6	<u>880</u>	22	<u>849</u>
7	<u>869</u>	23	<u>878</u>
8	<u>866</u>	24	<u>879</u>
9	<u>880</u>	25	<u>870</u>
10	<u>878</u>	26	<u>861</u>
11	<u>878</u>	27	<u>868</u>
12	<u>879</u>	28	<u>870</u>
13	<u>858</u>	29	<u>873</u>
14	<u>879</u>	30	<u>873</u>
15	<u>881</u>	31	<u></u>
16	<u>880</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 June UNIT NAME NA-2

YEAR 1985 DATE 07-01-85

COMPLETED BY Brenda Garner

No entry this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339
 UNIT NAME North Anna 2
 DATE 07-01-85
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH June

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
85-29	850601	S	NA	H	9	NA	NA	NA	Ramped down to 92% power for Turbine Valve Freedom Test. Unit returned to 100% power.
85-30	850607	S	NA	H	5	NA	NA	NA	Ramped down to 86% power for load follow. Unit returned to 100% power.
85-31	850608	S	NA	H	5	NA	NA	NA	Ramped down to 83% power for load follow. Unit returned to 100% power.
85-32	850613	S	NA	H	5	NA	NA	NA	Ramped down to 83% power for load follow. Unit returned to 100% power.
85-33	850621	S	NA	H	5	NA	NA	NA	Ramped down to 77% power for load follow. 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339
 UNIT NAME North Anna 2
 DATE 07-01-85
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

REPORT MONTH June

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
85-34	850622	S	NA	H	5	NA	NA	NA	Ramped down to 77% power for load follow. Unit returned to 100% power.
85-35	850626	S	NA	H	5	NA	NA	NA	Ramped down to 88% power for load follow. Unit returned to 100% power.
85-36	850629	S	NA	H	5	NA	NA	NA	Ramped down to 90% power for Turbine Valve Freedom Test. Unit returned to 100% power.

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

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH June

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>
June 1, 1985	0000	Began this month with Unit at 930 MW - 100% power
	0020	Commenced rampdown of 60 MW for Turbine Valve Freedom Test
	0040	Holding Unit at 870 MW - 92% power
	0135	Commenced ramp up to 100% power, Turbine Valve Freedom Test completed
	0220	Unit stabilized at 935 MW - 100% power
June 7, 1985	0232	Commenced rampdown of 100 MW for load follow
	0307	Unit holding at 830 MW - 86% power
	0433	Commenced ramp up to 100% power
	0512	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric
	0544	Commenced ramp up to 100% power, 2-PT-24 calorimetric completed
	0552	Unit stabilized at 933 MW - 100% power
June 8, 1985	0236	Commenced rampdown of 150 MW for load follow
	0328	Unit holding at 780 MW - 83% power
	0455	Commenced ramp up to 100% power
	0540	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH June

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>
June 8, 1985	0605	Commenced ramp up to 100% power, 2-PT-24 calorimetric completed
	0608	Unit stabilized at 932 MW - 100% power
June 13, 1985	0207	Commenced rampdown of 150 MW for load follow
	0317	Unit holding at 780 MW - 83% power
	0505	Commenced ramp up to 100% power
	0630	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric
	0659	Commenced ramp up to 100% power
	0710	Unit stabilized at 932 MW - 100% power
	0750	Calorimetric, 2-PT-24, completed
June 21, 1985	0123	Commenced rampdown of 200 MW for load follow
	0235	Unit holding at 733 MW - 77% power
	0458	Commenced ramp up to 100% power
	0620	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric
	0640	Commenced ramp up to 100% power
	0650	Unit stabilized at 933 MW - 100% power

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH June

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>
June 22, 1985	0200	Commenced rampdown of 200 MW for load follow
	0325	Unit holding at 730 MW - 77% power for load follow
	0519	Commenced ramp up to 100% power
	0549	Unit holding at 830 MW - 88% power for load follow
	0620	Commenced ramp up to 100% power
	0725	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric
	0750	Commenced ramp up to 100% power, 2-PT-24 calorimetric completed
	0818	Unit stabilized at 933 MW - 100% power
June 26, 1985	0230	Commenced rampdown of 100 MW for load follow
	0315	Unit holding at 830 MW - 88% power for load follow
	0320	Commenced ramp up to 100% power
	0356	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric
	0451	Commenced ramp up to 100% power, 2-PT-24 calorimetric completed
	0530	Unit stabilized at 930 MW - 100% power

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH June

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>
June 29, 1985	2218	Commenced rampdown of 70 MW for Turbine Valve Freedom Test
	2330	Commenced ramp up to 100% power, Turbine Valve Freedom Test completed
June 30, 1985	0231	Unit holding at 922 MW - 98% power for 2-PT-24 calorimetric
	0250	Commenced ramp up to 100% power
	0310	Unit stabilized at 930 MW - 100% power, 2-PT-24 calorimetric completed
	2400	Ended this month with Unit at 100% power

July 12, 1985



VIRGINIA POWER

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

Serial No. 85-511
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 June, 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

IE24
11