


VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH August YEAR 1983

APPROVED:


STATION MANAGER

8310190002 830902
PDR ADOCK 05000338
R PDR

TE24
111

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 09-02-83

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2507

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>882</u>	17	<u>883</u>
2	<u>882</u>	18	<u>883</u>
3	<u>882</u>	19	<u>883</u>
4	<u>882</u>	20	<u>852</u>
5	<u>876</u>	21	<u>763</u>
6	<u>873</u>	22	<u>882</u>
7	<u>881</u>	23	<u>882</u>
8	<u>880</u>	24	<u>883</u>
9	<u>880</u>	25	<u>883</u>
10	<u>880</u>	26	<u>883</u>
11	<u>881</u>	27	<u>871</u>
12	<u>879</u>	28	<u>883</u>
13	<u>877</u>	29	<u>882</u>
14	<u>884</u>	30	<u>882</u>
15	<u>884</u>	31	<u>883</u>
16	<u>884</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.

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 09-02-83
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2507

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: August 1983
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): 930
7. Maximum Dependable Capacity (Net MWe): 877
8. If Changes Occur in Capacity Ratings (Items No. 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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,831	45,912
12. Number of Hours Reactor Was Critical	744	4,104.5	31,227.5
13. Reactor Reserve Shutdown Hours	0	1,726.5	2,980.6
14. Hours Generator On-Line	774	3,942.3	30,324.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,053,536	10,500,870	78,761,224
17. Gross Electrical Energy Generated (MWH)	686,900	3,507,955	25,292,487
18. Net Electrical Energy Generated (MWH)	651,834	3,325,614	23,846,347
19. Unit Service Factor	100	67.6	66.0
20. Unit Availability Factor	100	67.6	66.0
21. Unit Capacity Factor (Using MDC Net)	99.9	65.0	59.2
22. Unit Capacity Factor (Using DER Net)	96.6	62.9	57.3
23. Unit Forced Outage Rate	0	37.1	11.8
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Scheduled Maintenance, 10-07-83, 10 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338
UNIT NAME North Anna 1
DATE 09-02-83
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2507

REPORT MONTH August

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
83-07	830820	F	0	A	5	NA	NA	NA	Unit rampdown to reduce generator leads temperatures, allowing replacement of worn bearings on the generator leads cooling fan. Repairs were made and the unit returned to full 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 SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-338

REPORT MONTH August UNIT NAME NA-1

YEAR 1983 DATE 09-02-83

COMPLETED BY G.D. Schmitendorf

83-07 (A) (2)

At 2000 on August 20, 1983 a rampdown of Unit 1 from 100% power was commenced. The rampdown was to reduce generator leads temperatures, thus allowing removal from service of the generator leads cooling fan for replacement of worn bearings. The unit was stabilized at 60% power while the repairs were made. The repairs were completed and a ramp-up to 100% power commenced at 0140 on August 21, 1983. The unit was stabilized at 100% power at 1453 on August 21, 1983.

VIRGINIA ELECTRIC AND POWER COMPANY
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.

August 1, 1983	0000	This month begins with the unit stable at 100% power.
August 5,	2106	Commenced unit rampdown for Turbine Valve Freedom Test.
August 6,	0043	Commenced Turbine Valve Freedom Test. (Stabilized at 91% power).
	0110	Turbine Valve Freedom Test completed. Commenced ramp-up at 3%/hr.
	0400	Unit stabilized at 100%.
August 12,	2130	Commenced unit rampdown for Turbine Valve Freedom Test.
August 13,	0015	Commenced Turbine Valve Freedom Test. (Stabilized at 91% power).
	0052	Turbine Valve Freedom Test completed. Commenced ramp-up at 3%/hr.
	0340	Unit stabilized at 100%.
August 20,	2000	Commenced unit rampdown at 3%/hr to less than 60% power to remove generator leads cooling fan from service for bearing replacement. (Turbine Valve Freedom Test performed at approximately 855 MW during the rampdown to remove the fan for repair).
	2340	Unit stabilized at approximately 60% power. Generator leads cooling fan removed from service for bearing replacement.
August 21,	0140	Repairs completed and generator leads cooling fan returned to service. Commenced ramp-up at 3%/hr.

	1453	Unit stabilized at 100% power.
August 26,	2307	Commenced unit rampdown for Turbine Valve Freedom Test.
August 27,	0230	Commenced Turbine Valve Freedom Test. (Stabilized at 91% power).
	0300	Turbine Valve Freedom Test completed. Commenced ramp-up at 3%/hr.
	0615	Unit stabilized at 100% power.
August 31,	2400	This month ends with the unit stable at 100% power.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 09-02-83

COMPLETED BY G. Schmitendor

TELEPHONE 703-894-5151X2507

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>863</u>	17	<u>870</u>
2	<u>863</u>	18	<u>868</u>
3	<u>864</u>	19	<u>866</u>
4	<u>865</u>	20	<u>861</u>
5	<u>866</u>	21	<u>866</u>
6	<u>863</u>	22	<u>866</u>
7	<u>867</u>	23	<u>867</u>
8	<u>867</u>	24	<u>867</u>
9	<u>866</u>	25	<u>868</u>
10	<u>868</u>	26	<u>868</u>
11	<u>867</u>	27	<u>862</u>
12	<u>867</u>	28	<u>867</u>
13	<u>864</u>	29	<u>867</u>
14	<u>828</u>	30	<u>870</u>
15	<u>843</u>	31	<u>871</u>
16	<u>835</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.

OPERATING DATA REPORT

DOCKET NO. 50-339
DATE 09-02-83
COMPLETED BY G. D. Schmitendorf
TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: August 1983
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): 939
7. Maximum Dependable Capacity (Net MWe): 890
8. If Changes Occur in Capacity Ratings (Items No. 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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,831	23,783
12. Number of Hours Reactor Was Critical	744	4,236.2	16,739.3
13. Reactor Reserve Shutdown Hours	0	1,753.9	3,008
14. Hours Generator On-Line	744	4,153.4	16,606.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,049,533	10,744,221	42,470,241
17. Gross Electrical Energy Generated (MWH)	677,545	3,510,174	14,099,487
18. Net Electrical Energy Generated (MWH)	642,191	3,321,253	13,370,871
19. Unit Service Factor	100	71.2	69.8
20. Unit Availability Factor	100	71.2	69.8
21. Unit Capacity Factor (Using MDC Net)	97.0	64.0	63.2
22. Unit Capacity Factor (Using DER Net)	95.2	62.8	62.0
23. Unit Forced Outage Rate	0	8.0	17.7
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Scheduled Maintenance, 11-18-83, 10 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339
 UNIT NAME North Anna 2
 DATE 09-02-83
 COMPLETED BY G. D. Schmitendorf
 TELEPHONE (703) 894-5151 X2507

REPORT MONTH August

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
83-15	830814	S	0	H	5	NA	NA	NA	Unit rampdown for load following as per System Operator. Unit returned to full power.
83-16	830815	S	0	H	5	NA	NA	NA	Unit rampdown for load following as per System Operator. Unit returned to full power.
83-17	830816	S	0	H	5	NA	NA	NA	Unit rampdown for load following as per System Operator. Unit returned to full 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 SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-339REPORT MONTH August UNIT NAME NA-2YEAR 1983 DATE 09-02-83COMPLETED BY G. D. Schmitendorf

- 83-15 (H) (5) At 0156 on August 14, 1983 a rampdown of Unit 2 from 100% power was commenced. The rampdown was as per the System Operator due to the system load requirements. The unit was stabilized at 750 MW at 0312 on August 14, 1983. A ramp-up as per the System Operator was commenced at 0700 on August 14, 1983. The unit was stabilized at 100% power at 1013 on August 14, 1983.
- 83-16 (H) (5) At 0120 on August 15, 1983 a rampdown of Unit 2 from 100% power was commenced. The rampdown was as per the System Operator due to the system load requirements. The unit was stabilized at 750 MW at 0230 on August 15, 1983. A ramp-up as per the System Operator was commenced at 0434 on August 15, 1983. The unit was stabilized at 100% power at 0705 on August 15, 1983.
- 83-17 (H) (5) At 0105 on August 16, 1983 a rampdown of Unit 2 from 100% power was commenced. The rampdown was as per the System Operator due to the system load requirements. The unit was stabilized at 710 MW at 0300 on August 16, 1983. A ramp-up as per the System Operator was commenced at 0503 on August 16, 1983. The unit was stabilized at 100% power at 0646 on August 16, 1983.

VIRGINIA ELECTRIC AND POWER COMPANY
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.

August 1, 1983	0000	This month begins with the unit stable at 100% power.
August 6,	0112	Commenced unit rampdown for Turbine Valve Freedom Test.
	0138	Commenced Turbine Valve Freedom Test. (Stabilized at 870 MW).
	0215	Turbine Valve Freedom Test completed. Commenced ramp-up.
	0315	Unit stabilized at 100% power.
August 13,	0046	Commenced unit rampdown for Turbine Valve Freedom Test.
	0115	Commenced Turbine Valve Freedom Test. (Stabilized at 850 MW).
	0202	Turbine Valve Freedom Test completed. Commenced ramp-up.
	0300	Unit stabilized at 100% power.
August 14,	0156	Commenced unit rampdown for load following, as per System Operator.
	0312	Stabilized at 750 MW as per System Operator.
	0700	Commenced unit ramp-up as per System Operator.
	1013	Unit stabilized at 100% power.
August 15,	0120	Commenced unit rampdown for load following, as per System Operator.

	0230	Stabilized at 750 MW as per System Operator.
	0434	Commenced unit ramp-up as per System Operator.
	0705	Unit stabilized at 100% power.
August 16,	0105	Commenced unit rampdown for load following, as per System Operator.
	0300	Stabilized at 710 MW as per System Operator.
	0503	Commenced unit ramp-up as per System Operator.
	0646	Unit stabilized at 100% power.
August 20,	0000	Commenced unit rampdown for Turbine Valve Freedom Test.
	0039	Commenced Turbine Valve Freedom Test. (Stabilized at 865 MW).
	0220	Turbine Valve Freedom Test completed. Commenced ramp-up.
	0308	Unit stabilized at 100% power.
August 27,	0010	Commenced unit rampdown for Turbine Valve Freedom Test.
	0028	Commenced Turbine Valve Freedom Test. (Stabilized at 860 MW).
	0225	Turbine Valve Freedom Test completed. (Commenced ramp-up).
	0321	Unit stabilized at 100% power.
August 31,	2400	This month ends with the unit stable at 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

September 15, 1983

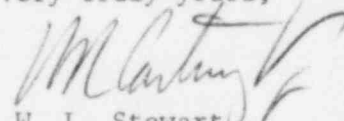
Mr. N. M. Haller, Director
Office of Management and Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 520
NO/JHL:acm
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Dear Mr. Haller:

Enclosed is the Monthly Operating Report for North Anna Power Station Unit Nos. 1 and 2 for the month of August, 1983.

Very truly yours,


W. L. Stewart

Enclosure (3 copies)

cc: Mr. R. C. DeYoung, Director (12 copies)
Office of Inspection and Enforcement

Mr. James P. O'Reilly (1 copy)
Regional Administrator
Region II

Mr. M. B. Shymlock
NRC Resident Inspector
North Anna Power Station

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