

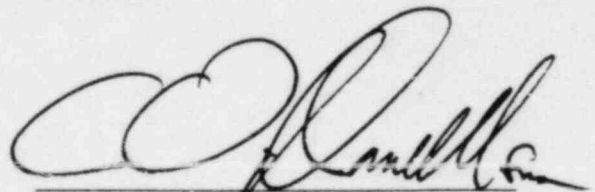
VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH August YEAR 1982

APPROVED:



STATION MANAGER

8211020216 820913  
PDR ADOCK 05000338  
R PDR

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 09-01-82

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2502

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</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 09-01-82  
 COMPLETED BY G. D. Schmitendorf  
 TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: August 1982
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): 918
7. Maximum Dependable Capacity (Net MWe): 865
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons:

NA

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	<u>744</u>	<u>5,831</u>	<u>37,152</u>
12. Number of Hours Reactor Was Critical	<u>0</u>	<u>3,129.9</u>	<u>26,958.2</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>21.5</u>	<u>256.4</u>
14. Hours Generator On-Line	<u>0</u>	<u>3,022.9</u>	<u>26,375.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>7,941,328</u>	<u>68,255,580</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>2,537,888</u>	<u>21,783,410</u>
18. Net Electrical Energy Generated (MWH)	<u>0</u>	<u>2,396,973</u>	<u>20,519,889</u>
19. Unit Service Factor	<u>0</u>	<u>51.8</u>	<u>71.0</u>
20. Unit Availability Factor	<u>0</u>	<u>51.8</u>	<u>71.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>47.5</u>	<u>63.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>45.3</u>	<u>60.9</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>7.3</u>	<u>5.1</u>
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: 10-21-82

26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	<u>                    </u>	<u>                    </u>
INITIAL ELECTRICITY	<u>                    </u>	<u>                    </u>
COMMERCIAL OPERATION	<u>                    </u>	<u>                    </u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338  
 UNIT NAME North Anna 1  
 DATE 09-01-82  
 COMPLETED BY G. D. Schmitendorf  
 TELEPHONE (703) 894-5151 X2502

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
82-10		S	744	The scheduled refueling outage continues					

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

DOCKET NO. 50-339

UNIT NA-2

DATE 09-01-82

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2502

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>92.5</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>93.7</u>
15	<u>0</u>	31	<u>206.6</u>
16	<u>0</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 09-01-82  
 COMPLETED BY G. D. Schmitendorf  
 TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: August 1982
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:

NA

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	15,023
12. Number of Hours Reactor Was Critical	49.9	2,192.6	9,607.4
13. Reactor Reserve Shutdown Hours	185.1	358.8	1,992
14. Hours Generator On-Line	46.8	2,108.5	9,567.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	40,396	5,112,986	23,895,827
17. Gross Electrical Energy Generated (MWH)	11,230	1,687,590	8,002,822
18. Net Electrical Energy Generated (MWH)	9,413	1,595,412	7,597,828
19. Unit Service Factor	6.3	36.2	63.7
20. Unit Availability Factor	6.3	36.2	63.7
21. Unit Capacity Factor (Using MDC Net)	1.4	30.7	56.8
22. Unit Capacity Factor (Using DER Net)	1.4	30.2	55.8
23. Unit Forced Outage Rate	93.7	40.0	24.2
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	_____	_____

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339  
 UNIT NAME North Anna 2  
 DATE 09-01-82  
 COMPLETED BY G. D. Schmitendorf  
 TELEPHONE (703) 894-5151 X2502

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
82-13	820708	F	512.1						Continued from Previous Month Repair work necessary following thermal sleeves inspection in progress.
82-14	820822	F	185.1	A	3	NA	NA	NA	"B" Phase Main Transformer Failure.

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

EXPLANATION SHEET      DOCKET NO. 50-338

REPORT MONTH August      UNIT NAME NA-2

YEAR 1982      DATE 09-01-82

COMPLETED BY G. D. Schmitendorf

82-14      (A)      (3)      At 1931 on August 22, 1982 with the unit at approximately 30% power the unit was stable and maintaining a power level below 30% for secondary chemistry to come within allowable specification for power escalation. A "B" Main Transformer Differential Trip Alarm was received. This was immediately followed by a turbine trip and a reactor trip. Initial investigation indicated that an internal explosion had occurred on "B" Main Transformer. The unit was taken to Mode 3 and stabilized there. The reason for the transformer failure is still under investigation. The transformer was replaced with a spare and the unit returned to power one week after the unit trip.