

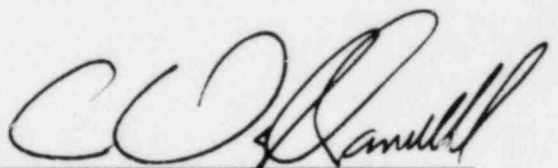
VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH September YEAR 1982

APPROVED:


STATION MANAGER

OPERATING DATA REPORT

DOCKET NO. 50-338
 DATE 10-01-82
 COMPLETED BY G. D. Schmitendorf
 TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: September 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	720	6,551	37,872
12. Number of Hours Reactor Was Critical	0	3,129.9	26,958.2
13. Reactor Reserve Shutdown Hours	0	21.5	256.4
14. Hours Generator On-Line	0	3,022.9	26,375.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	7,941,328	68,255,580
17. Gross Electrical Energy Generated (MWH)	0	2,537,888	21,783,410
18. Net Electrical Energy Generated (MWH)	0	2,396,973	20,519,889
19. Unit Service Factor	0	46.1	69.6
20. Unit Availability Factor	0	46.1	69.6
21. Unit Capacity Factor (Using MDC Net)	0	42.3	62.6
22. Unit Capacity Factor (Using DER Net)	0	40.3	59.7
23. Unit Forced Outage Rate	0	7.3	5.1
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: 11-09-82
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 10-01-82
 COMPLETED BY G. D. Schmitendorf
 TELEPHONE (703) 894-5151 X2502

REPORT MONTH September

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
82-10		S	720	The scheduled refueling outage continues					

<p>¹ F: Forced S: Scheduled</p>	<p>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)</p>	<p>³ Method: 1-Manual 2-Manual Scram. 3-Automatic Scram 4-Continuations 5-Load Reduction 9-Other</p>	<p>⁴ Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUR 5-0161)</p> <p>⁵ Exhibit H - Same Source</p>
--	--	--	---

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-338

REPORT MONTH September UNIT NAME NA-1

YEAR 1982 DATE 10-01-82

COMPLETED BY G. D. Schmitendorf

NO ENTRIES THIS MONTH

OPERATING DATA REPORT

DOCKET NO. 50-339
 DATE 10-01-82
 COMPLETED BY G. D. Schmitendorf
 TELEPHONE (703) 894-5151 X2502

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: September 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	<u>720</u>	<u>6,551</u>	<u>15,743</u>
12. Number of Hours Reactor Was Critical	<u>693.4</u>	<u>2,886</u>	<u>10,300.8</u>
13. Reactor Reserve Shutdown Hours	<u>29.8</u>	<u>388.6</u>	<u>2,021.8</u>
14. Hours Generator On-Line	<u>690.2</u>	<u>2,798.7</u>	<u>10,258.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>960,712</u>	<u>6,073,698</u>	<u>24,856,539</u>
17. Gross Electrical Energy Generated (MWH)	<u>626,330</u>	<u>2,319,920</u>	<u>8,629,152</u>
18. Net Electrical Energy Generated (MWH)	<u>595,585</u>	<u>2,190,997</u>	<u>8,193,413</u>
19. Unit Service Factor	<u>95.9</u>	<u>42.7</u>	<u>65.2</u>
20. Unit Availability Factor	<u>95.9</u>	<u>42.7</u>	<u>65.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>92.9</u>	<u>37.6</u>	<u>58.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>91.2</u>	<u>36.9</u>	<u>57.4</u>
23. Unit Forced Outage Rate	<u>4.1</u>	<u>33.9</u>	<u>23.2</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

None

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 10-01-82

COMPLETED BY G. Schmitendorf

TELEPHONE 703-894-5151X2502

MONTH September

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>797</u>	17	<u>882</u>
2	<u>876</u>	18	<u>878</u>
3	<u>878</u>	19	<u>869</u>
4	<u>876</u>	20	<u>823</u>
5	<u>879</u>	21	<u>696</u>
6	<u>881</u>	22	<u>0</u>
7	<u>880</u>	23	<u>631</u>
8	<u>882</u>	24	<u>878</u>
9	<u>885</u>	25	<u>872</u>
10	<u>879</u>	26	<u>874</u>
11	<u>874</u>	27	<u>821</u>
12	<u>886</u>	28	<u>859</u>
13	<u>881</u>	29	<u>880</u>
14	<u>878</u>	30	<u>867</u>
15	<u>878</u>	31	<u></u>
16	<u>881</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 SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339
 UNIT NAME North Anna 2
 DATE 10-01-82
 COMPLETED BY G. D. Schmitendorf
 TELEPHONE (703) 894-5151 X2502

REPORT MONTH September

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
82-15	820921	F	29.8	A	1	NA	NA	NA	Repair of Steam Generator FW PP Recirc Valve 2-FW-250C
82-16	820927	F	NA	A	1	NA	NA	NA	Repair of steam generator feedwater control valve

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 September UNIT NAME NA-2YEAR 1982 DATE 10-01-82COMPLETED BY G. D. Schmitendorf

- 82-15 (A) (1) At 1800 on September 21, 1982 with the unit at 100% power a rampdown to Generator off line was commenced. The Generator was taken off line and Control Banks driven to zero steps. The reactor was subcritical and maintained in Mode 3 (Hot Standby). Feed Pump Recirc Valve 2-FW-250C required repair due to an excessive leak. In order to isolate and repair no recirc path would be available for the Main Feed Pumps. The unit was brought off line and the repairs made in approximately 24 hours, at which time the unit was returned to power (Generator on line) at 0333 on September 23, 1982.
- 82-16 (A) (5) At 2015 on September 27, 1982 commenced power reduction to 32 percent power to allow repair of "B" feedwater control valve. Bypass feedwater control valves were used while repairs were made to normal feedwater control valve pneumatic control system. Repairs were successful and unit was returned to power, reaching 100 percent at 0300 on September 28, 1982.