

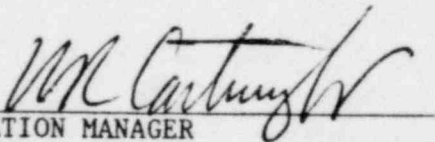
VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH JUNE YEAR 1981

APPROVED:


STATION MANAGER

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 07-03-81
COMPLETED BY L.L. Rogers
TELEPHONE (703) 894-5151 X2510

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: June 1981
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): 915
7. Maximum Dependable Capacity (Net MWe): 865
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	720	4,343	26,904
12. Number of Hours Reactor Was Critical	718.4	2,052	20,025.1
13. Reactor Reserve Shutdown Hours	1.6	3.8	216.9
14. Hours Generator On-Line	709.7	1,953.3	19,601.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,933,276	5,101,600	50,270,303
17. Gross Electrical Energy Generated (MWH)	633,348	1,675,850	16,010,762
18. Net Electrical Energy Generated (MWH)	598,983	1,582,079	15,067,082
19. Unit Service Factor	98.6	45	72.9
20. Unit Availability Factor	98.6	45	72.9
21. Unit Capacity Factor (Using MDC Net)	96.2	42.1	64.7
22. Unit Capacity Factor (Using DER Net)	91.7	40.2	61.7
23. Unit Forced Outage Rate	1.4	0.9	5.5
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Fall Maintenance - 10-02-81 thru 10-16-81

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
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 07-03-81
 COMPLETED BY L. L. ROGERS
 TELEPHONE (703) 894-5151 X2510

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
81-06	810624	F	10.3	A	3	N/A	N/A	N/A	Reactor trip due to No. 3 governor valve EHC line rupture.
81-07	810626	N/A	0	F	1	N/A	N/A	N/A	Power reduction to clean up chemistry in steam generators.

1	2	3	4
F: Forced S: Scheduled	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)	Method: 1-Manual 2-Manual Scram. 3-Automatic Scram 4-Other (Explain)	Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)
			5 Exhibit 1 - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 07-03-81

COMPLETED BY L.L. Rogers

TELEPHONE 703-894-5151X2510

MONTH June

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>858</u>	17	<u>856</u>
2	<u>858</u>	18	<u>356</u>
3	<u>863</u>	19	<u>857</u>
4	<u>866</u>	20	<u>848</u>
5	<u>865</u>	21	<u>848</u>
	<u>863</u>	22	<u>855</u>
7	<u>863</u>	23	<u>860</u>
8	<u>864</u>	24	<u>741</u>
9	<u>860</u>	25	<u>463</u>
10	<u>860</u>	26	<u>836</u>
11	<u>855</u>	27	<u>613</u>
12	<u>862</u>	28	<u>848</u>
13	<u>859</u>	29	<u>855</u>
14	<u>860</u>	30	<u>853</u>
15	<u>857</u>	31	<u></u>
16	<u>857</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 1981 DATE 07-03-81

COMPLETED BY L. L. ROGERS

81-06 (A) (3) Reactor trip due to No. 3 governor valve EHC
line rupture.

OPERATING DATA REPORT

DOCKET NO. 50-339
 DATE 07-03-81
 COMPLETED BY J.L. Rogers
 TELEPHONE (703) 894-5151 X2510

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: June 1981
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): 938
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	720	4,343	4,775
12. Number of Hours Reactor Was Critical	444.7	3,765.1	4,194
13. Reactor Reserve Shutdown Hours	275.3	310.8	590.8
14. Hours Generator On-Line	441.8	3,692	4,104.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,205,121	9,810,364	10,932,877
17. Gross Electrical Energy Generated (MWH)	404,242	3,216,123	3,584,554
18. Net Electrical Energy Generated (MWH)	383,539	3,041,481	3,391,125
19. Unit Service Factor	61.4	85	86
20. Unit Availability Factor	61.4	85	86
21. Unit Capacity Factor (Using MDC Net)	59.9	78.7	79.8
22. Unit Capacity Factor (Using DER Net)	58.7	77.2	78.3
23. Unit Forced Outage Rate	38.6	9.0	8.6
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

Fall Maintenance - 10-16-81 thru 10-30-81

25. If Shut Down At End Of Report Period, Estimated Date of Startup: July 2, 1981
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 07-03-81

COMPLETED BY L.L. Rogers

TELEPHONE 703-894-5151X2510

MONTH June

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>882</u>	17	<u>852</u>
2	<u>889</u>	18	<u>848</u>
3	<u>887</u>	19	<u>500</u>
4	<u>891</u>	20	<u>0</u>
5	<u>889</u>	21	<u>0</u>
6	<u>848</u>	22	<u>0</u>
7	<u>628</u>	23	<u>0</u>
8	<u>889</u>	24	<u>0</u>
9	<u>889</u>	25	<u>0</u>
10	<u>888</u>	26	<u>0</u>
11	<u>890</u>	27	<u>0</u>
12	<u>875</u>	28	<u>0</u>
13	<u>858</u>	29	<u>0</u>
14	<u>860</u>	30	<u>0</u>
15	<u>859</u>	31	<u>0</u>
16	<u>858</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	07-03-81
COMPLETED BY	L. L. ROGERS
TELEPHONE	(703) 894-5151 X2510

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
81-16	810605	S	0	B	5				Reduced power to perform turbine valve testing.
81-17	810606	F	3.7	A	3	N/A	N/A	N/A	Reactor trip/turbine trip due to loss of EHC pressure. No. 4 governor valve supply line rupture.
81-18	810613	S	0	B	5				Reduced power to perform turbine valve testing.
81-19	810619	F	274.5	A	3	N/A	N/A	N/A	Reactor trip due to failure of "C" Main Transformer.

1	2	3	4
F: Forced S: Scheduled	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)	Method: 1-Manual 2-Manual Scram. 3-Automatic Scram 4-Continuations 5-Load Reduction 6-Other	Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NAREG-0161) 5 Exhibit H - Same Source

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UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-339

REPORT MONTH JUNE UNIT NAME NA-2

YEAR 1981 DATE 07-03-81

COMPLETED BY L. L. ROGERS

81-17	(A)	(3)	Reactor trip from turbine trip due to loss of EHC pressure. No. 4 governor valve supply line rupture.
81-19	(A)	(3)	Reactor trip due to failure of "C" main transformer.