VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH MAY YEAR 1981

APPROVED:

STATION MANAGER

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 06-05-81
COMPLETED BY L.L. Rogers
TELEPHONE (703) 894-5151 X2510

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: May 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:

Reevaluation of auxiliary load consumption.

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	3,623	26,184
12. Number of Hours Reactor Was Critical	744	1,333.6	19,306.7
13. Reactor Reserve Shutdown Hours	0	2.2	215.3
14. Hours Generator On-Line	744	1,243.6	18,891.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,060,316	3,168,324	48,337,027
17. Gross Electrical Energy Generated (MWH)	679,537	1,042,502	15,377,414
18. Net Electrical Energy Generated (MWH)	642,950	983,096	14,468,099
19. Unit Service Factor	100	34.3	72.1
20. Unit Availability Factor	100	34.3	72.1
21. Unit Capacity Factor (Using MDC Net)	99.9	31.4	63.9
22. Unit Capacity Factor (Using DER Net)	95.3	29.9	60.9
23. Unit Forced Outage Rate	0	0.6	5.6

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

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MAY

DOCKET NO.	50-338
UNIT NAME	North Anna 1
DATE	06-05-81
COMPLETED BY	L. L. ROGERS
TELEPHONE	(703) 894-5151 X2510

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

Normal power operation through the month.

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-Other (Explain)

4

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

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Exhibit 1 - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 06-05-81

COMPLETED BY L.L. Rogers

TELEPHONE 703-894-5151X2510

MONTH May

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	866	17	857
2	867	18	854
3	865	19	861
4	867	20	862
5	868	21	868
6	867	22	868
7	869	23	859
8	869	24	863
9	859	25	866
10	864	26	867
11	863	27	867
12	863	28	866
13	863	29	866
14	864	30	866
15	862	31	864
16	859		

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 06-05-81
COMPLETED BY L.L. Rogers
TELEPHONE (703) 894-5151 X2510

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: May 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:

Changed to steam flow calorimetric on May 1, 1981 to correct for inaccurate FW flow measurements from fouled flow venturies.

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	3,623	4,055
12.	Number of Hours Reactor Was Critical	465.9	3,320.4	3,749.3
13.	Reactor Reserve Shutdown Hours	0	35.5	315.5
14.	Hours Generator On-Line	457.5	3,250.2	3,662.9
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	1,198,573	8,605,243	9,727,756
17.	Gross Electrical Energy Generated (MWH)	403,885	2,811,881	3,180,312
18.	Net Electrical Energy Generated (MWH)	382,461	2,657,942	3,007,586
19.	Unit Service Factor	61.5	89.7	90.3
20.	Unit Availability Factor	61.5	89.7	90.3
21.	Unit Capacity Factor (Using MDC Net)	57.8	82.4	83.3
22.	Unit Capacity Factor (Using DER Net)	56.7	80.9	81.8
23.	Unit Forced Outage Rate	0.8	2.8	3.0

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

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MAY

DOCKET NO. 50-339
UNIT NAME North Anna 2
DATE 06-05-81
COMPLETED BY L. L. RODGERS
TELEPHONE (703) 894-5151 X2510

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
81-12	810508	S	279.5	B	1	N/A	N/A	N/A	Spring maintenance outage
81-13	810520	F	2.3	G	3	N/A	N/A	N/A	Reactor trip due to "A" steam generator lo-lo level
81-14	810522	S	5	B	1	N/A	N/A	N/A	Reduced power to 30% for repair of LCV-2460A
81-15	810523	S	4.7	B	1	N/A	N/A	N/A	Manual shutdown to repair LCV-2460A due to high rad area around the 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-Other (Explain)

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit 1 - Same Source

UNIT SHUTDOWN AND POWER REDUCTION

EXPLANATION SHEET

DOCKET NO. 50-339

REPORT MONTH MAY

UNIT NAME NA-2

YEAR 1981

DATE 06-05-81

COMPLETED BY L. L. ROGERS

81-12	(B)	(1)	The unit was removed from service on May 8 at 2213 hours to begin the Spring Maintenance Outage. Scheduled outage repairs and modifications included: Multiple Structure ARS Pipe Support Modification, Service Water Rad Monitor Pump and Seal Replacement, Snubber inspection, condenser leak check, containment Rad Monitor Modification, No. 4 Governor Valve Change Out, and general valve repair and rework.
81-13	(G)	(3)	Reactor trip due to "A" steam generator lo-lo level.
81-14	(B)	(1)	On May 22 the Unit was ramped down to 30% power to repair LCV-2460A.
81-15	(B)	(1)	The Unit was taken off line after ramping the unit down to 30% for repair of LCV-2460A when the general area of the valve was found to have 2R/hr.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 06-05-81

COMPLETED BY L.L. Rogers

TELEPHONE 703-894-5151X2510

MONTH May

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	859	17	0
2	882	18	0
3	888	19	0
4	890	20	89
5	892	21	852
6	892	22	880
7	890	23	269
8	802	24	634
9	0	25	887
10	0	26	891
11	0	27	889
12	0	28	890
13	0	29	866
14	0	30	886
15	0	31	887
16	0		

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.