VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH APRIL YEAR 1981

APPROVED:

STATION MANAGER

OPERATING DATA REPORT

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

OPERATING STATUS

Notes

1. Unit Name: North Anna 1
2. Reporting Period: April 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): 898
7. Maximum Dependable Capacity (Net MWe): 850
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	719	2,879	25,440
12. Number of Hours Reactor Was Critical	589.6	589.6	18,562.7
13. Reactor Reserve Shutdown Hours	2.2	2.2	215.3
14. Hours Generator On-Line	499.6	499.6	18,147.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,108,008	1,108,008	45,940,150
17. Gross Electrical Energy Generated (MWH)	362,965	362,965	14,679,877
18. Net Electrical Energy Generated (MWH)	340,146	340,146	13,825,149
19. Unit Service Factor	69.5	17.4	71.3
20. Unit Availability Factor	69.5	17.4	71.3
21. Unit Capacity Factor (Using MDC Net)	55.7	13.9	63.9
22. Unit Capacity Factor (Using DER Net)	52.2	13.0	59.9
23. Unit Forced Outage Rate	1.4	1.4	5.9

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

N/A

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 APRIL

DOCKET NO. 50-338
UNIT NAME North Anna 1
DATE 05-05-81
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
Shutdown 80-28 Continues through April 9.									Duration 210.2 hours.
81-01	810409	F	3.8	G	3	N/A	N/A	N/A	Reactor trip due to "C" steam generator lo-lo level
81-02	810409	F	3.2	G	3	N/A	N/A	N/A	Reactor trip due to "B" steam generator hi-hi level
81-03	810410	S	2.2	B	2	N/A	N/A	N/A	Perform Overspeed Turbine Trip Test
81-04	810420	S	4.5	B	1	N/A	N/A	N/A	Ramp down to 65% power to repair feedwater pump
81-05	810425	S	18.5	D	N/A	N/A	N/A	N/A	Reduced power to 30% for chemistry hold

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 05-05-81

COMPLETED BY L.L. Rogers

TELEPHONE 703-894-5151X2510

MONTH April

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	830
2	0	18	842
3	0	19	852
4	0	20	790
5	0	21	857
6	0	22	862
7	0	23	867
8	0	24	867
9	2	25	828
10	192	26	596
11	222	27	863
12	235	28	851
13	239	29	857
14	323	30	858
15	613	31	
16	753		

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 APRIL UNIT NAME NA-1

YEAR 1981 DATE 05-05-81

COMPLETED BY L. L. ROGERS

81-01	(G)	(3)	Reactor trip/turbine trip due to "C" steam generator lo-lo level while attempting to bring unit on the line.
81-02	(G)	(3)	Reactor trip/turbine trip due to "B" steam generator hi-hi level while attempting to bring unit on the line.
81-03	(B)	(2)	The unit was manually tripped during performance of the 18 month Overspeed Turbine Trip Test.
81-04	(B)	(1)	With the unit at 100% a rampdown to 65% power was initiated to repair a vent valve on top of a discharge line for 1-FW-P-1C, a weld failed causing a leak that could not be isolated.

OPERATING DATA REPORT

DOCKET NO. 50-339
DATE 05-05-81
COMPLETED BY L.L. Rogers
TELEPHONE (703) 894-5151 X2510

OPERATING STATUS

Notes

1. Unit Name: North Anna 2
2. Reporting Period: April 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): 917
7. Maximum Dependable Capacity (Net MWe): 870
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	719	2,879	3,311
12. Number of Hours Reactor Was Critical	718.5	2,854.5	3,283.4
13. Reactor Reserve Shutdown Hours	1.5	35.5	315.5
14. Hours Generator On-Line	704.3	2,792.7	3,205.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,886,222	7,406,670	8,529,183
17. Gross Electrical Energy Generated (MWH)	606,095	2,407,996	2,776,427
18. Net Electrical Energy Generated (MWH)	573,581	2,275,481	2,625,125
19. Unit Service Factor	98.0	97.0	96.8
20. Unit Availability Factor	98.0	97.0	96.8
21. Unit Capacity Factor (Using MDC Net)	91.7	90.8	91.1
22. Unit Capacity Factor (Using DER Net)	88.0	87.1	87.4
23. Unit Forced Outage Rate	2.0	3.0	3.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

May 8-23, 1981 - Maintenance

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		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 05-05-81

COMPLETED BY L.L. Rogers

TELEPHONE 703-894-5151X2510

MONTH April

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	846	17	858
2	633	18	856
3	80	19	859
4	323	20	856
5	838	21	859
6	845	22	852
7	845	23	846
8	849	24	844
9	849	25	846
10	847	26	849
11	837	27	852
12	846	28	852
13	848	29	849
14	848	30	823
15	850	31	
16	853		

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

REPORT MONTH APRIL

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	05-05-81
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
81-10	810402	F	14.7	A	1	LER/RO-N1-81-20	EB	Z	Loss of circulating water for cooling main condenser due to loss of 2G bus.
81-11	810430	S	4.7	F	1	N/A	N/A	N/A	Reduced power to 74% per system operator for load following.

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 REDUCTIONS

EXPLANATION SHEET

DOCKET NO. 50-339

REPORT MONTH APRIL UNIT NAME NA-2

YEAR 1981 DATE 05-05-81

COMPLETED BY L. L. ROGERS

81-10	(A)	Unit 2 was manually tripped due to loss of circulating water for cooling main condenser due to loss of 2G bus. The unit was placed in a 200%/min. ramp down which was terminated with a manual turbine and reactor trip when the control room condenser vacuum indicator showed a decrease.