VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH Sept. YEAR 1979

(Revised 11-05-79)

SUBMITTED:

SUPERINTENDENT - OPERATIONS

APPROVED:

MANAGER

1367 334

7911200590

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 11-5-79
COMPLETED BY W. R. Madison
TELEPHONE (703) 894-5151

OPERATING STATUS

1. Unit Name: North Anna Unit 1
2. Reporting Period: September 1979 (Revised)
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): 928
7. Maximum Dependable Capacity (Net MWe): 898
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
N/A

Notes

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	11,568
12. Number Of Hours Reactor Was Critical	582.2	5,478.4	10,525.2
13. Reactor Reserve Shutdown Hours	2.8	51.5	148.3
14. Hours Generator On-Line	582.2	5,401.5	10,053.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,134,388	21,083,118	26,279,913
17. Gross Electrical Energy Generated (MWH)	345,793	4,445,776	8,346,349
18. Net Electrical Energy Generated (MWH)	320,744	4,188,866	7,853,446
19. Unit Service Factor	80.7	82.4	86.9
20. Unit Availability Factor	80.7	82.4	86.9
21. Unit Capacity Factor (Using MDC Net)	49.6	71.2	75.6
22. Unit Capacity Factor (Using DER Net)	49.1	70.5	74.8
23. Unit Forced Outage Rate	0.5	4.8	3.3

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: December 17, 1979
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 Unit 1
DATE 11-5-79
COMPLETED BY W. R. Madison
TELEPHONE (703) 894-5151

REPORT MONTH September 1979 (Revised)

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
79-15	790912	S	0	F*	4*	N/A	N/A	N/A	Ramped down to 35% reactor power in preparation for extended period of operation beyond 9/15/79 pending amendment of NPF-4.
79-16	790921	F	0	B*	4*	N/A	N/A	N/A	Ramped down to 28% reactor power to perform turbine valve freedom test. Testing was performed & the reactor was escalated to 80%.
79-17	790925	F	2.8	A*	3*	LER/RO 79-128	SF	VALVEX	Automatic R_x Turbine Generator trip due to high level in the extraction steam side of the 5B feedwater heater. The plant is presently shutdown & the cooler will be repaired.
79-18	790925	S	135	C*	4*	N/A	N/A	N/A	Commenced scheduled refueling outage.

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 I - Same Source

(9/77)

*See Attached Sheet
Shutdown 79-18 continued into October.

1567 336

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-338

REPORT MONTH September (Revised) NAME North Anna

YEAR 1979 DATE 11-5-79

COMPLETED BY W. R. MADISON

79-15 (F) (4) The reactor was operating in the end of cycle 1 coastdown: Reactor power was decreased to extend the cycle to October 5, 1979 pending NRC approval. Amendment 15 to NPF-4 was approved. Subsequent analysis indicated that reactor power could be increased back to maximum attainable. Reactor power was increased to approximately 80%.

79-16 (B) (4) Reactor power was decreased to establish the required conditions for turbine valve testing. The required testing was completed and reactor power was escalated to 80%. The reactor was not shutdown.

79-17 ( ) (3) The 5th point heater drain cooler dump valve LCV-5D-128B began to cycle due to a tube rupture inside the cooler The leakage was more than the capability of the drain valves causing extraction steam condensate to back up into the 5th point heater to the turbine trip setpoint. This resulted in an automatic Reactor Turbine Generator trip. The heater drain cooler tubes will be replaced during the current outage.

79-18 (C) (4) Commenced the scheduled refueling outage at 0900 September 25, 1979. The reactor was already shutdown from event 79-16.