VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH October YEAR 1978

SUBMITTED:

W R Carter Jr

SUPERINTENDENT - STATION OPERATIONS

APPROVED:

W R Carter Jr

MANAGER

7811170 C9

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 11-7-78
COMPLETED BY D. C. Woods
TELEPHONE 703-894-5151 x 360

OPERATING STATUS

1. Unit Name: North Anna
2. Reporting Period: October 1978
3. Licensed Thermal Power (MWt): 2,775
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	745	3,553	3,553
12. Number Of Hours Reactor Was Critical	679.4	3,242.1	3,242.1
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	657.2	3,211.4	3,211.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,750,627	8,379,826	8,379,826
17. Gross Electrical Energy Generated (MWH)	560,197	2,684,107	2,684,107
18. Net Electrical Energy Generated (MWH)	528,766	2,517,863	2,517,863
19. Unit Service Factor	88.2%	90.4%	90.4%
20. Unit Availability Factor	88.2%	90.4%	90.4%
21. Unit Capacity Factor (Using MDC Net)	79.1%	78.9%	78.9%
22. Unit Capacity Factor (Using DER Net)	76.5%	76.4%	76.4%
23. Unit Forced Outage Rate	5.3%	1.4%	1.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Snubber Inspection, April 1979, 1 week

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	_____	_____

(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338
UNIT #North Anna #1
DATE 11/7/78
COMPLETED BY D. C. Woods
TELEPHONE 703-894-5151 x 360

MONTH October

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	844
2	0	18	840
3	481	19	834
4	73	20	836
5	481	21	832
6	750	22	833
7	834	23	836
8	844	24	634
9	837	25	407
10	785	26	820
11	839	27	823
12	847	28	825
13	845	29	831
14	840	30	828
15	844	31	830
16	845		

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.

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October

DOCKET NO. 50-338
UNIT NAME North Anna 1
DATE Nov. 1, 1978
COMPLETED BY A. G. Neufer
TELEPHONE 703-894-5151 x 229

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
78-28	781003	F	12.3	B	4*				Manual Shutdown to repair blown plug on high pressure turbine cross under pipe rewelded returned to power.
78-29	781004	F	9.0	A*	3				High flux rate 2/4 channels caused reactor trip due to fault in a gain pot.
78-30	781024	F	15.7	A*	1				Manual reactor/turbine/generator trip due to a loss of cooling water to "A" reactor coolant pump. Repaired faulty cooling water valve.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance of 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

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*See attached sheet.

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET
REPORT MONTH
YEAR 1978

DOCKET NO. 50-338
UNIT NAME North Anna
DATE Nov. 1, 1978

COMPLETED BY A. G. Neufer

NOTE: Shutdown 78-27 was concluded 10-3-78 at 0023. 48.7 hours.

78-28 (4) Reactor was not shutdown.

78-29 (A) While power range nuclear instrumentation channel N-44 was in the trip mode due to maintenance, operator attempted to adjust remaining 3 NIS channels in accordance with calorometric data when adjust knob locking device was released. A voltage spike occurred causing a high flux rate trip in channel N-41. This made up the 2/4 consequence for automatic reactor trip.

78-30 (A) The reactor was manually tripped by the operator from 100% power due to a loss of cooling water to "A" reactor coolant pump. After the Rx was tripped, the reactor coolant pump was shutdown to preclude pump damage. Subsequent to the occurrence, a section of charging and volume control piping was being returned to service. A drain valve was left open while the piping was pressured. The drain valve allowed water to spray in the vicinity of the containment valve penetration area. 1-TV-CC-102E "A" reactor coolant pump component cooling outlet valve was in the area. 1-TV-CC-102-E went closed at about the same time causing low CC flow alarm alerting the operator. Upon inspection of 1-TV-CC102-E, electricians found a broken micro switch as well as moisture. Either problem could have caused the valve to short out and close.