

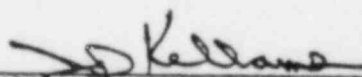
VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH November YEAR 1978

SUBMITTED:



SUPERINTENDENT - STATION OPERATIONS

APPROVED:



MANAGER

7812200255

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 12-01-78
COMPLETED BY D. C. Woods
TELEPHONE 703-894-5151 x 360

OPERATING STATUS

<p>1. Unit Name: <u>North Anna Unit 1</u></p> <p>2. Reporting Period: <u>November 1978</u></p> <p>3. Licensed Thermal Power (MWt): <u>2,775</u></p> <p>4. Nameplate Rating (Gross MWe): <u>947</u></p> <p>5. Design Electrical Rating (Net MWe): <u>907</u></p> <p>6. Maximum Dependable Capacity (Gross MWe): <u>928</u></p> <p>7. Maximum Dependable Capacity (Net MWe): <u>898</u></p> <p>8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u></p>	<p>Notes</p>
<p>9. Power Level To Which Restricted, If Any (Net MWe): <u>N/A</u></p> <p>10. Reasons For Restrictions, If Any: <u>N/A</u></p>	

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	4,273	4,273
12. Number Of Hours Reactor Was Critical	716.8	3,958.9	3,958.9
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	714.9	3,926.3	3,926.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,894,450	10,274,276	10,274,276
17. Gross Electrical Energy Generated (MWH)	606,775	3,290,882	3,290,882
18. Net Electrical Energy Generated (MWH)	572,250	3,090,113	3,090,113
19. Unit Service Factor	99.3%	91.9%	91.9%
20. Unit Availability Factor	99.3%	91.9%	91.9%
21. Unit Capacity Factor (Using MDC Net)	88.5%	80.5%	80.5%
22. Unit Capacity Factor (Using DER Net)	87.6%	79.7%	79.7%
23. Unit Forced Outage Rate	0.7%	1.4%	1.4%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Snubber Inspection April 1979, 1 week.</u>			

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	_____	_____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338
UNIT North Anna #1
DATE 12/01/78
COMPLETED BY D. C. Woods
TELEPHONE 703-894-5151 x 360

MONTH November

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>616</u>
2	<u>681</u>
3	<u>798</u>
4	<u>800</u>
5	<u>780</u>
6	<u>806</u>
7	<u>803</u>
8	<u>805</u>
9	<u>808</u>
10	<u>806</u>
11	<u>804</u>
12	<u>809</u>
13	<u>811</u>
14	<u>811</u>
15	<u>804</u>
16	<u>806</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>806</u>
18	<u>808</u>
19	<u>810</u>
20	<u>808</u>
21	<u>809</u>
22	<u>808</u>
23	<u>814</u>
24	<u>781</u>
25	<u>809</u>
26	<u>810</u>
27	<u>808</u>
28	<u>808</u>
29	<u>810</u>
30	<u>803</u>
31	<u></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

REPORT MONTH November

DOCKET NO. 50-338
 UNIT NAME North Anna
 DATE Dec. 4, 1978
 COMPLETED BY A. G. Neuffer
 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
78-31	781101	F	5.1	A*	2				Manual Reactor Turbine, Generation Trip due to total loss of cooling on "A" Phase of the unit main transformer. Repaired oil pump/cooling fan relay contactor. Returned to power

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

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET

DOCKET NO. 50-338REPORT MONTH NovemberUNIT NAME North AnnaYEAR 1978DATE Dec. 4, 1978COMPLETED BY A.G. Neuffer

78-31 (A)

Both sets of cooling fans and oil circulating pumps were found to be inoperative. Attempts to restart cooling system failed. A ramp down of power was begun. Shortly thereafter, it was discovered that this particular type transformer must not be energized with no cooling. At that time, the reactor, turbine and generator were tripped manually by the operator. Investigation determined a burned out circuit contactor.