

YANKEE ATOMIC NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 78-1

FOR THE MONTH OF JANUARY, 1978

OPERATING DATA REPORT

DOCKET NO. 50-29
 DATE 780207
 COMPLETED BY E. C. Tarnuzzer
 TELEPHONE (617)366-9011 x276

OPERATING STATUS

- 1. Unit Name: Yankee Rowe
- 2. Reporting Period: January 1978
- 3. Licensed Thermal Power (MWt): 600
- 4. Nameplate Rating (Gross MWe): 185
- 5. Design Electrical Rating (Net MWe): 175
- 6. Maximum Dependable Capacity (Gross MWe): 180
- 7. Maximum Dependable Capacity (Net MWe): 175
- 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
None

Notes

- 9. Power Level To Which Restricted, If Any (Net MWe): None
- 10. Reasons For Restrictions, If Any: _____

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>744</u>	<u> </u>
12. Number Of Hours Reactor Was Critical	<u>611</u>	<u>611</u>	<u>124,605</u>
13. Reactor Reserve Shutdown Hour.	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>599</u>	<u>599</u>	<u>120,383</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>351,723</u>	<u>351,723</u>	<u>63,767,491</u>
17. Gross Electrical Energy Generated (MWH)	<u>108,343</u>	<u>108,343</u>	<u>19,598,689</u>
18. Net Electrical Energy Generated (MWH)	<u>101,750</u>	<u>101,750</u>	<u>18,348,338</u>
19. Unit Service Factor	<u>80.5</u>	<u>80.5</u>	<u>79.7</u>
20. Unit Availability Factor	<u>80.5</u> 100.0	<u>80.5</u> 100.0	not available
21. Unit Capacity Factor (Using MDC Net)	<u>78.1</u>	<u>78.1</u>	<u>72.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>78.1</u>	<u>78.1</u>	<u>72.1</u>
23. Unit Forced Outage Rate	<u>17.6</u>	<u>17.6</u>	<u>1.6</u>

- 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
None

25. If Shut Down At End Of Report Period, Estimated Date of Startup: February 2, 1978.

	Forecast	Achieved
26. Units In Test Status (Prior to Commercial Operation):		
INITIAL CRITICALITY	<u> </u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January 1978

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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
78-1	780107	S	14	E	1	-	-	-	-
78-2	780126	F	131	A, B, E	3	-	-	-	Auto scram caused by loose washer falling on printed circuit of steam generator NR level, resulting in ground on vital bus. Check made to insure other loose parts not available to cause recurrence. Outage extended to replace terminal blocks in containment on safeguards equipment with test approved blocks.

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

AVERAGE DAILY UNIT POWER LEVEL

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MONTH January 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	173.4	17	173.6
2	173.3	18	173.3
3	173.3	19	173.4
4	173.4	20	173.3
5	173.3	21	173.7
6	171.8	22	173.6
7	23.9	23	173.5
8	139.4	24	173.7
9	167.2	25	173.7
10	173.3	26	94.0
11	173.5	27	0
12	173.8	28	0
13	173.8	29	0
14	173.9	30	0
15	173.6	31	0
16	173.4		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compare to the nearest whole megawatt.

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SUMMARY OF OPERATING EXPERIENCE

- 1/6 At 2200 hours a scheduled plant shutdown was commenced for operators training.
- 1/7 At 0651 hours the generator was separated from the grid. After the completion of the training exercises the plant was started up and the generator phased on the line at 2117 hours.
- 1/8 At 0700 hours a hold in plant load, at 534 MWt, for 24 hours to allow Xenon equilibrium was started.
- 1/9 At 0700 hours plant load increase commenced and at 0845 hours full allowable power was reached.
- 1/26 At 1300 hours a reactor scram-turbine trip occurred from 600 MWt due to a ground in the steam generator narrow range level system. The plant remained shutdown for reactor operator licensing and replacement of terminal blocks in the Vapor Container on safeguards equipment and install time delay relays.
- 1/31 Terminal block replacement is still in progress with the plant in a Mode III operational status.