

YANKEE ATOMIC NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 78-9

FOR THE MONTH OF SEPTEMBER, 1978

7810170178 R

OPERATING DATA REPORT

DOCKET NO. 50-29
 DATE 781006
 COMPLETED BY R.M. Sjogren
 TELEPHONE (617) 366-9011
 Ext. 2281

OPERATING STATUS

1. Unit Name: Yankee Rowe
2. Reporting Period: September, 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:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): 599 MWt
10. Reasons For Restrictions, If Any: Maximum Allowable Linear Heat Generation Rate Reduced

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	6,551	---
12. Number Of Hours Reactor Was Critical	715.23	6,383.42	130,377.2
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	714.08	6,363.06	126,147.17
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	419,988.1	3,769,149.4	67,184,788.31
17. Gross Electrical Energy Generated (MWH)	125,362.1	1,152,920.3	20,643,267.0
18. Net Electrical Energy Generated (MWH)	117,619.115	1,083,465.915	19,323,967.82
19. Unit Service Factor	99.2	97.1	79.4
20. Unit Availability Factor	100.0	100.0	---
21. Unit Capacity Factor (Using MDC Net)	93.3	94.5	73.0
22. Unit Capacity Factor (Using DER Net)	93.3	94.5	73.0
23. Unit Forced Outage Rate	.82	2.7	1.6

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling October 20, 1978 for a duration of 6 weeks.

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

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MONTH September, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>168.6</u>	17	<u>167.9</u>
2	<u>168.4</u>	18	<u>168.1</u>
3	<u>159.2</u>	19	<u>168.0</u>
4	<u>168.1</u>	20	<u>168.1</u>
5	<u>168.2</u>	21	<u>167.9</u>
6	<u>168.3</u>	22	<u>167.8</u>
7	<u>168.2</u>	23	<u>167.7</u>
8	<u>168.3</u>	24	<u>167.2</u>
9	<u>168.0</u>	25	<u>167.2</u>
10	<u>167.6</u>	26	<u>166.8</u>
11	<u>167.6</u>	27	<u>166.5</u>
12	<u>168.7</u>	28	<u>167.1</u>
13	<u>96.7</u>	29	<u>167.9</u>
14	<u>130.3</u>	30	<u>167.8</u>
15	<u>150.1</u>	31	<u>-</u>
16	<u>168.4</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

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REPORT MONTH September, 1978

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
11	9/13/78	F	5.92	H	3	None	N/A	N/A	Spurious reactor protection system scram signal. No corrective action possible.

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

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SUMMARY OF OPERATING EXPERIENCES

- 9/3 At 0300 hours a load reduction for throttle and control valve exercises was commenced. At 0530 hours, with plant load at 130 MWe, the throttle valve exercise was begun. At 0630 hours the throttle valve exercise was completed and plant load escalation was started. At 1145 hours the plant was operating at full load.
- 9/13 At 1135 hours a reactor scram and turbine trip occurred, from 179.5 MWe, as a result of a spurious scram signal. At 1621 hours the reactor was brought critical and at 1730 hours, the generator was phased to the grid.
- 9/14 At 0900 hours, with the Group "C" control rods at 75 inches, a 24-hour hold was begun to allow Xenon equilibrium.
- 9/15 At 0900 hours plant load escalation was commenced. At 1800 hours the plant was operating at the maximum allowable power (600 MWt).
- 9/25 At 1600 hours the maximum allowable power level was reduced to 599 MWt due to the reduction in the allowable linear heat generation rate.