

VERMONT YANKEE NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 78-12

FOR THE MONTH OF DECEMBER, 1978

7901170243

OPERATING DATA REPORT

DOCKET NO. 50-271
 DATE 790112
 COMPLETED BY R. M. Sjogren
 TELEPHONE (617) 366-9011
 X2281

OPERATING STATUS

1. Unit Name: VERMONT YANKEE
2. Reporting Period: December, 1978
3. Licensed Thermal Power (MWt): 1,593
4. Nameplate Rating (Gross MWe): 540
5. Design Electrical Rating (Net MWe): 514 (open cycle) 540 (closed cycle)
6. Maximum Dependable Capacity (Gross MWe): 535
7. Maximum Dependable Capacity (Net MWe): 504
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): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	8,760	55,034.75
12. Number Of Hours Reactor Was Critical	732	6,853.97	43,889.83
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	725	6,649	42,097
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,112,565.5	10,045,660.0	58,386,803.0
17. Gross Electrical Energy Generated (MWH)	379,252	3,394,758	19,339,468
18. Net Electrical Energy Generated (MWH)	364,182	3,240,697	18,319,530
19. Unit Service Factor	97.4	75.9	76.5
20. Unit Availability Factor	97.4	75.9	76.5
21. Unit Capacity Factor (Using MDC Net)	97.1	73.4	66.0
22. Unit Capacity Factor (Using DER Net)	95.2	71.9	64.7
23. Unit Forced Outage Rate	2.6	17.6	7.3
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:

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 December, 1978

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	523
2	524
3	509
4	523
5	524
6	523
7	523
8	523
9	523
10	513
11	522
12	523
13	524
14	523
15	523
16	523

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	469
18	523
19	522
20	523
21	521
22	522
23	521
24	507
25	369
26	122
27	355
28	459
29	467
30	413
31	508

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 December, 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
78-20	781203	S	0	H	4 (Power Reduction)	None	N/A	N/A	H - Turbine Surveillance
78-21	781217	S	0	H	4 (Power Reduction)	None	N/A	N/A	H - Turbine Surveillance
78-22	781224	S	0	H	4 (Power Reduction)	None	N/A	N/A	H - Turbine Surveillance
78-23	781225	F	19	B	3	None	CBA	Valve X	B - See Operations Summary
78-24	781229	S	0	H	4 (Power Reduction)	None	RAA	Conrod	H - Control Rod Pattern Adjustment

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

(9/17)

DOCKET NO. 50-271UNIT Vermont YankeeDATE 790112COMPLETED BY R. M. SjogrenTELEPHONE (617) 366-9011 X2281SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
RWCU Regen. Heat Exchanger Relief Valve	Corrective MR 78-1194	NA	Failed gasket	Flange leakage	Replaced gasket
RWCU Regen. Heat Exchanger	Corrective MR 78-1206	NA	Failed gasket	Flange leakage	Repaired
"A" Air Ejector Off Gas Monitor	Corrective MR 78-1236	LER 78-34	Failed components	Erratic Indication	Replaced with spare unit
Torus water level in- struments	Corrective MR 78-1249	LER 78-35	Loss of Reference Leg Water Level	Incorrect level indication	Established reference leg water level

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REPORT MONTH December, 1978

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 93.9% of rated thermal power for the month of December, 1978. Gross electrical generation for the month was 379,252 MWh, or 94.4% of design electrical capacity.

Operations Summary

The following is a chronological description of plant operations including other pertinent items of interest for the month:

- 12-1 At the beginning of this report period, the plant was operating at 99% of rated thermal power.
- 12-3 At 0500 hours power was reduced to 75% for turbine surveillance. A return to full power was initiated at 0600 hours.
- 12-17 At 0500 hours power was reduced to 77% for turbine surveillance. A return to full power was initiated at 0600 hours.
- 12-24 At 0500 hours power was reduced to 78% for turbine surveillance. A return to full power was initiated at 0600 hours.
- 12-25 At 1700 hours a reactor scram occurred. A control room operator was in the process of performing a routine MSIV exercise. The valve test pushbutton was depressed for a marginally long period of time, and as a result, MSIV 80A began to restrict steam flow in the "A" steam line. The reactor simultaneously isolated due to high steam flow in the other lines and a full reactor scram occurred. A return to full power was initiated at 0512 on 12-26. Phased to grid at 12:32 on 12-26.
- 12-29 At 1900 hours power was reduced to 65% to effect a Rod Pattern Adjustment. A return to full power was initiated at 2330 hours.
- 12-31 At the conclusion of this report period, the plant was operating at 99% of rated thermal power.