

VERMONT YANKEE NUCLEAR POWER STATION
MONTHLY STATISTICAL REPORT 80-12
FOR THE MONTH OF DECEMBER, 1980

8101210 505

OPERATING DATA REPORT

DOCKET NO. 50-271
 DATE 810113
 COMPLETED BY D. Bernard
 TELEPHONE 617-872-8100
 ext. 2390

OPERATING STATUS

1. Unit Name: Vermont Yankee
2. Reporting Period: December
3. Licensed Thermal Power(MWt): 1593
4. Nameplate Rating(Gross MWe): 540
5. Design Electrical Rating(Net MWe): 514 (open) 504 (closed)
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): _____
10. Reasons For Restrictions, If Any: _____

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	<u>744.00</u>	<u>8,784.00</u>	<u>---</u>
12. Number Of Hours Reactor Was Critical	<u>110.50</u>	<u>6,377.39</u>	<u>57,535.78</u>
13. Reactor Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
14. Hours Generator On-Line	<u>73.70</u>	<u>6,273.80</u>	<u>55,601.58</u>
15. Unit Reserve Shutdown Hours	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
16. Gross Thermal Energy Generated(MWH)	<u>30,933.00</u>	<u>9,378,904.00</u>	<u>78,603,517.00</u>
17. Gross Electrical Energy Generated(MWH)	<u>7,171.00</u>	<u>3,143,177.00</u>	<u>26,112,847.00</u>
18. Net Electrical Energy Generated(MWH)	<u>6,406.00</u>	<u>2,979,214.00</u>	<u>24,747,579.00</u>
19. Unit Service Factor	<u>9.91</u>	<u>71.42</u>	<u>76.61</u>
20. Unit Availability Factor	<u>9.91</u>	<u>71.42</u>	<u>76.61</u>
21. Unit Capacity Factor(Using MDC Net)	<u>1.71</u>	<u>67.29</u>	<u>67.65</u>
22. Unit Capacity Factor(Using DER Net)	<u>1.68</u>	<u>65.99</u>	<u>66.34</u>
23. Unit Forced Outage Rate	<u>90.06</u>	<u>13.11</u>	<u>7.31</u>
24. Shutdowns Scheduled Over Next 6 Months(Type, Date, and Duration of Each):			

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. 50-271

UNIT Vermont Yankee

DATE 810113

COMPLETED BY F.J. Burger

TELEPHONE 802-257-7711 Ext. 137

MONTH December

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	0	17.	0
2.	0	18.	0
3.	0	19.	0
4.	0	20.	0
5.	0	21.	0
6.	0	22.	0
7.	0	23.	0
8.	0	24.	0
9.	0	25.	0
10.	0	26.	0
11.	0	27.	0
12.	0	28.	15
13.	0	29.	73
14.	0	30.	90
15.	0	31.	89
16.	0		

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

DOCKET NO 50-271
 UNIT NAME Vermont Yankee
 DATE 810113
 COMPLETED BY F.J. Burger
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No.	Date	Typed ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report#	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
80-22 (cont)	801124	F	559.9	A*	4*	80-37/1T	CG	PIPEXX	The pipe cracking is believed to have been caused by IGSCC. The Sweep-0-Let is undergoing a failure analysis to determine the cause of the cracking. The Sweep-0-Let and piping are being replaced with materials which meet the intent of Section II of NUREG 0313, Rev. 1, dated October, 1979. *See RO 80-37/1T
80-23	801224	F	1.0	A	3	N/A	CH HA	INSTRU MECFUN	Reactor scram caused by a combination of a feedwater instrument failure and a Turbine Generator mechanical pressure regulator malfunction.

¹ r: 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December

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No.	Date	Typed ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
80-24	801225	F	106.9	A	4	N/A	CF	VALVEX	Maintained reactor shutdown from previous scram to repair RHR System valve leakage.
80-25	801229	S	2.5	B	N/A	N/A	N/A	N/A	Turbine Generator removed from the grid for overspeed testing.

¹ F: Forced
 S: Scheduled

² Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
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 E-Operator Training & License Examination
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DOCKET NO. 50-271UNIT Vermont YankeeDATE 810113COMPLETED BY F.J. BurgerTELEPHONE 802-257-7711 Ext. 137SAFETY RELATED MAINTENANCE

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EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
"D" RHR Pump, P-10-1D	Corrective MR 80-0289	N/A	Normal Operation	Seal Leakage	Replaced Seal
Instrument Isolation Valve V2-12B	Corrective MR 80-0508	N/A	Normal Operation	Leakage	Repacked Valve
A-D RHR Pumps P-10-1A → 1D Seal Water Supply Connections at pump suctions	Corrective MR 80-0804	N/A	Normal Operation	Leakage	Replaced Tubing and Connections
Containment Air Monitor Isolation Valve 76 A	Corrective MR 80-0995	N/A	Shifted Valve Internals Prevented Closure	Leakage	Installed Re-designed Valve Internals Supplied by the Factory
CRD Hydraulic Control Unit 14-31 Air Solenoids	Corrective MR 80-1045	N/A	Normal Operation	Air Leakage	Replaced Solenoids and Rebuilt Valves
#3 TIP Machine Containment Penetration	Corrective MR 80-1051	N/A	Normal Operation	Leakage	Replaced Seals
CRD Hydraulic Control Unit 30-07 Alarm Pressure Switch	Corrective MR 80-1127	N/A	Set Point Drift	Out of Calibration	Recalibrated Switch
RWCU line CUW-18	Corrective MR 80-1133	LER 80-37/1P	See LER	Leakage	Replaced Affected Components

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SAFETY RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
RHR Piping Support HD-200D	Corrective MR 80-1134	N/A	Construction Defects	Rejectable NDT Indication on the Pipe to Saddle Welds	Removed Indications
HPCI Piping Support H-31	Corrective MR 80-1153	N/A	Normal Operation	Loose Turnbuckle	Tightened Turnbuckle
Spring Hangers HPCI-3 and H-107A, RHR HD-194C and HD-87C, RR-65 and 66, CSHD-84	Corrective MR 80-1187	N/A	Normal Operation	Settings Out of Spec.	Reset Hangers
RHR Pumps P 10-1A → C	Preventive MR 80-1200	N/A	Updated Information from the Factory	Need for New Type "O" Ring	Replaced Seals
RHR Minimum Flow Valve V10-16A	Corrective MR 80-1246	N/A	Failed Breaker	Valve Inoperable	Replaced Breaker
Shock Suppressor RHR-4	Corrective MR 80-1255	N/A	Jarred During Outage Maintenance	Fluid Leakage	Rebuilt Suppressor
Spring Hangers RR 29 and 30, RHR HD-16 and HD 189	Corrective MR 80-1302	N/A	Normal Operation	Setting Out of Spec.	Reset Hangers

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			CAUSE	RESULT	
"B" RPS HG Set UV Relay	Corrective MR 80-1316	N/A	Worn Parts	Did Not Trip	Replaced Breaker
"E" IRM Bypass Switch Relay	Corrective MR 80-1317	N/A	Worn Parts	Relay Inoperable	Replaced Relay
Service Water Pumps P7-1A → D Discharge Pressure Gages	Corrective MR 80-1347	N/A	Normal Operations	Out of Cal.	Cleaned and Recalibrated Gages
Service Water Pump P7-1A	Corrective MR 80-1354	N/A	Normal Wear	Packing Leak	Repacked Pump
RWCU Valve V12-18	Corrective MR 80-1360	N/A	Normal Wear	Bonnet Seal Leakage	Replaced Seal Ring
Shock Suppressor RR 76	Corrective MR 80-1361	N/A	Normal Operation	Leakage at Sight Glass	Refilled Reservoir and Tightened Fittings
Reactor Drain Valve V2-99	Corrective MR 80-1380	N/A	Normal Operation	Packing Leak	Repacked Valve
RHR Valve V10-81A	Corrective MR 80-1381	N/A	Normal Operation	Packing Leak	Adjusted Packing
RHR Valve V10-46A	Corrective MR 80-1382	N/A	Normal Operation	Bonnet Leakage	Replaced Gasket

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			CAUSE	RESULT	
HPCI Valve V23-19	Corrective MR 80-1383	N/A	Normal Operation	Packing Leak	Adjusted Packing
RCIC Valve V13-22	Corrective MR 80-1384	N/A	Normal Operation	Packing Leak	Adjusted Packing
Level Switch LS-6-52B	Corrective MR 80-1385	N/A	Normal Operation	Tubing Joint Leak	Replaced Fittings
Level Switch LS-2-3-72B	Corrective MR 80-1386	N/A	Normal Operation	Tubing Joint Leak	Tightened Fittings
RCIC Valve V13-15	Corrective MR 80-1388	N/A	Normal Operation	Bonnet Leakage	Replaced Seal Ring
RCIC Valve V13-15	Corrective MR 80-1408	LER 80-43/3L	Normal Operation	Excessive Seat Leakage	Lapped Disc and Seat
"B" Diesel Pyrometers #4 & #6 Cylinder	Corrective MR 80-1437	N/A	Vibration	Not Indicating	Resoldered Connections
RHR Valve V10-27A	Corrective MR 80-1442	Outage 80-24	Normal Operation	Excessive Seat Leakage	Replaced Parts As Necessary
RHR Valve V10-46A	Corrective MR 80-1443	Outage 80-24	Normal Operation	Excessive Seat Leakage	Replaced Parts As Necessary

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EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
RHR Valve V10-81A	Corrective MR 80-1454	Outage 80-24	Failed Packing	Leakage	Repacked Valve

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REPORT MONTH December

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 2.6% of rated thermal power for the month. Gross electrical generation was 7171 MWh_e or 1.8% of design electrical capacity.

Operating Summary

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

- 12/1/80 At the beginning of the reporting period the plant was shutdown for the replacement of Reactor Water Cleanup System piping.
- 12/23/80 At 1910 hrs. a reactor startup was initiated. Criticality was reached at 1950 hrs.
- 12/24/80 At 0752 hrs. the reactor scrambled due to a combination of a feedwater instrument failure and a malfunction of the turbine generator mechanical pressure regulator.
At 0852 hrs. the shutdown was continued to repair excessive valve seat leakage in the RHR system.
- 12/27/80 At 2050 hrs. a reactor startup was initiated. Criticality was reached at 2128 hrs.
- 12/28/80 At 1948 hrs. the turbine generator was phased onto the grid.
- 12/29/80 At 0939 the turbine generator was removed from the grid for overspeed testing. At 1207 the turbine generator was phased onto the grid. Power was maintained at 23% due to the replacement of additional Reactor Water Cleanup piping.
- 12/31/80 At the end of the reporting cycle the plant was at 23% of rated thermal power.