

VERMONT YANKEE NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 83-01

FOR THE MONTH OF JANUARY, 1983

8302160244 830209  
PDR ADUCK 05000271  
R PDR

OPERATING DATA REPORT

DOCKET NO. 50-271  
 DATE 830209  
 COMPLETED BY F.J. Burger  
 TELEPHONE (802) 257-7711  
 Ext. 136

OPERATING STATUS

1. Unit Name: Vermont Yankee
2. Reporting Period: January
3. Licensed Thermal Power(MWt): 1593
4. Nameplate Rating(Gross MWe): 540
5. Design Electrical Rating(Net MWe): 514(oc) 504 (cc)
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 Reason:  
N/A

Notes

9. Power Level to Which Restricted, If Any(Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	744.00	744.00	
12. Number Of Hours Reactor Was Critical	703.36	703.36	74,246.35
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	691.20	691.20	72,110.89
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated(MWH)	979,792.50	979,792.50	104,019,035.00
17. Gross Electrical Energy Generated(MWH)	329,329.00	329,329.00	34,590,476.00
18. Net Electrical Energy Generated(MWH)	315,162.00	315,162.00	32,805,703.00
19. Unit Service Factor	92.90	92.90	79.38
20. Unit Availability Factor	92.90	92.90	79.38
21. Unit Capacity Factor(Using MDC Net)	84.05	84.05	71.65
22. Unit Capacity Factor(Using DER Net)	82.41	82.41	70.26
23. Unit Forced Outage Rate	7.10	7.10	6.37

24. Shutdowns Scheduled Over Next 6 Months(Type, Date, and Duration of Each):  
An eight week refueling outage is scheduled to start March 5, 1983.

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  
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MONTH January

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	490
2.	485
3.	488
4.	486
5.	484
6.	483
7.	483
8.	44
9.	0
10.	142
11.	422
12.	486
13.	476
14.	476
15.	335
16.	448

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17.	479
18.	471
19.	470
20.	461
21.	460
22.	460
23.	453
24.	458
25.	462
26.	460
27.	459
28.	455
29.	456
30.	449
31.	452

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 January

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No.	Date	Typed <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting <sup>3</sup> Down Reactor	License Event Report#	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
83-01	830108	F	52.8	A	1	N/A LEK 83-02/IP	HH CG	PIPEXX PIPEXX	Plant shutdown to repair a leak in the main turbine moisture separator drain piping and leakage from RWCU line CUW-19. See LER for details of the CUW-19 leak repair.
83-02	830115	S	0	B	4 (Power Reduction)	N/A	RB	CONROD	Power reduction for a control rod pattern exchange and turbine surveillance.

<sup>1</sup> F: Forced  
S: Scheduled

<sup>2</sup> 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)

<sup>3</sup> Method:  
1- Manual  
2- Manual Scram  
3- Automatic Scram  
4- Other (Explain)

<sup>4</sup> Exhibit G- Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

<sup>5</sup> Exhibit I - Same Source

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SAFETY RELATED MAINTENANCE

Page 1 of 2

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
Output Breaker for the "B" 24 VDC Neutron Monitoring Battery	Corrective MR 82-0631	N/A	Failed Parts	Breaker Wouldn't Stay Closed	Replaced Breaker.
Reactor Recirc Pump Discharge Valve V2-53A Out of Service Alarm	Corrective MR 82-1059	N/A	Alarm Limit Switch Out of Adjustment	Alarm Energized	Adjusted Limit Switch
Deadweight Hanger ASCP-HD-25A	Corrective MR 82-1367	N/A	Improper Installation	Threaded Rod Disengaged From Hanger	Re-engaged Threaded Rod and Tightened All Bolting.
MSIV 80-D RPS Relay	Corrective MR 82-1388	N/A	Limit Switch Out of Adjustment	Relay Dropped Out Too Soon	Adjusted Limit Switch.
HPCI Steam Valve V23-15 Position Indicator	Corrective MR 82-1520	N/A	Loose and Dirty Switch Contacts	Indicated Increased Valve Stroke Time	Adjusted and Cleaned Switch Contacts
MSIV 80-B Testing Mechanism	Corrective MR 83-0005	N/A	Sluggish Pilot Valve	Upon Release of Slow Closure Test Button Valve is Slow To Re-open.	Replaced Pilot Valve

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SAFETY RELATED MAINTENANCE

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EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
Drywell Nitrogen Makeup Valves SB16-20-20 and SB 16-20-22B Solenoid Actuators	Corrective MR 83-0015	LER 83-1/1P	Dirt	Valves Would Not Close	Disassembled and Cleaned Actuators
RWCU, CUW-19 Line	Corrective MR 83-0020	LER 83-2/1P	See LER	Leakage	Replaced One Elbow
Containment Air Compressor Suction Valve V72-38A Actuator	Corrective MR 83-0032	N/A	Loose Bolting	Air Leakage From Actuator	Tightened Bolting
"A" Emergency Diesel Generator	Corrective MR 83-0054	LER 83-3/3L	Failed Cooling Water Heater and Stuck Open Fuel Return Header Check Valve	Low Jacket Coolant Temp. and Slow Start Time	Replaced Heater and Cleaned Check Valve.
"A" RBCCW Pump Suction Pressure Gage	Corrective MR 83-0121	N/A	Vibration Disconnected Bourdon Tube	Gage Stuck High	Re-connected Bourdon Tube

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REPORT MONTH January

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 82.66% of rated thermal power for the month. Gross electrical generation was 329329 MWh<sub>e</sub> or 81.97% of design electrical capacity.

Operating Summary

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

At the beginning of the reporting period the plant was operating at 94.71% of rated thermal power.

- 830108 At 0102 hours, a shutdown was initiated to repair leaking main turbine moisture separator drain piping and leakage from RWCU line CUW-19.
- 830108 At 0413 hours, the generator was removed from the grid.
- 830108 At 0647 hours, the reactor was manually scrammed.
- 830109 At 2325 hours, the reactor was critical.
- 830110 At 0901 hours, the generator was phased to the grid.
- 830115 At 0030 hours, a power reduction was initiated for a control rod pattern exchange and turbine surveillance.
- 830115 At 0315 hours, a return to full power was started.

At the end of the reporting period the plant was operating at 88.03% of rated thermal power. The coastdown toward the March 1983 refueling was in progress.