

VERMONT YANKEE NUCLEAR POWER STATION  
MONTHLY STATISTICAL REPORT 79-08  
FOR THE MONTH OF AUGUST, 1979

956270

7909170409

# OPERATING DATA REPORT

DOCKET NO. 50-271  
 DATE 790912  
 COMPLETED BY R. M. Siogren  
 TELEPHONE (617) 366-9011  
 X2281

## OPERATING STATUS

1. Unit Name: Vermont Yankee
2. Reporting Period: August 1979
3. Licensed Thermal Power (MWt): 1,593
4. Nameplate Rating (Gross MWe): 540
5. Design Electrical Rating (Net MWe): 514 (open cycle) 504 (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): \_\_\_\_\_
10. Reasons For Restrictions, If Any: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,831</u>	<u>---</u>
12. Number Of Hours Reactor Was Critical	<u>660</u>	<u>5,339.31</u>	<u>49,229.14</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
14. Hours Generator On-Line	<u>643</u>	<u>5,308.78</u>	<u>47,441.78</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>889,639.5</u>	<u>8,052,072.7</u>	<u>66,438,890.2</u>
17. Gross Electrical Energy Generated (MWH)	<u>287,213</u>	<u>2,691,078</u>	<u>22,030,546</u>
18. Net Electrical Energy Generated (MWH)	<u>267,921</u>	<u>2,553,707</u>	<u>20,873,230</u>
19. Unit Service Factor	<u>100</u>	<u>91.7</u>	<u>77.8</u>
20. Unit Availability Factor	<u>100</u>	<u>91.7</u>	<u>77.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>91.0</u>	<u>89.2</u>	<u>68.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>89.2</u>	<u>87.4</u>	<u>66.7</u>
23. Unit Forced Outage Rate	<u>7.36</u>	<u>1.9</u>	<u>6.6</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refueling September 22, 1979 - 7 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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

956271 (9/77)

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-271  
UNIT Vermont Yankee  
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MONTH August 1979

**POOR ORIGINAL**

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>267</u>
2	<u>373</u>
3	<u>462</u>
4	<u>459</u>
5	<u>457</u>
6	<u>460</u>
7	<u>459</u>
8	<u>455</u>
9	<u>277</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>175</u>
14	<u>304</u>
15	<u>173</u>
16	<u>369</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>423</u>
18	<u>438</u>
19	<u>435</u>
20	<u>435</u>
21	<u>436</u>
22	<u>434</u>
23	<u>434</u>
24	<u>431</u>
25	<u>430</u>
26	<u>435</u>
27	<u>430</u>
28	<u>428</u>
29	<u>429</u>
30	<u>427</u>
31	<u>433</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.

(9/77)

956272

POOR ORIGINAL

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1979

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956273

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
79-15	790809	F	88.0	A	2	-- --	CB	VALVEX	A - Bonnet and packing leaks on the "A" Recirc Discharge Valve. Valve was repacked and seal welded.
79-16	790814	F	13.0	H	3	-- --	XX	XXXXXX	H - Power spikes caused by instabili- ties in the electronic pressure regulator.

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

<sup>2</sup>  
 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)

<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 (LEK) File (NUREG-  
 0161)

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

(9/77)

DOCKET NO. 50-271

UNIT Vermont Yankee

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956274

## SAFETY RELATED MAINTENANCE

SHEET 1 of 2

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
RHR Pipe Restraint	Preventive MR 79-299	NA	Unknown	Loose Bolting	Tightened Bolting
"A" Recirc Pump Discharge Valve (V2-53-A)	Corrective MR 79-497	NA	Worn Packing	Leakage	Repacked Valve
Drywell Air Purge Inlet Valve (V16-20-22B)	Corrective MR 79-540	LER 79-16/3L	Foreign Material In Valve	Valve Would Not Open	Disassembled and Cleaned Valve
"B" RHR Service Water Pump Strainer	Corrective MR 79-585	NA	Clogged Strainer	High $\Delta P$	Cleaned Strainer
"A" Recirc Pump Discharge Valve (V2-53-A)	Corrective MR 79-606	NA	Normal Operation	Bonnet Leakage	Seal Welded the Bonnet
Hydraulic Control Unit 26-27, Control Valve CR 13-126	Corrective MR 79-609	NA	Normal Wear	Leakage Past Valve Seat	Overhauled Valve
HPCI Steam Supply Valve, V23-15 Motor Operator	Corrective MR 79-611	NA	Unknown	Housing Cover Cracked	Replaced Parts as Necessary
Hydraulic Control Unit 26-27, Nitrogen Cylinder Fitting	Corrective MR 79-627	NA	Normal Operation	Nitrogen Leakage	Replaced "O" Ring and Gaskets

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950275

SAFETY RELATED MAINTENANCE

SHEET 2 of 2

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
APRM "B"	Corrective MR 79-631	NA	Blown Fuse	Inoperative	Replaced Fuse
MSIV 80A	Corrective MR 79-632	LER 79-20/3L	Binding Guide Rods	Valve would not open	Dressed Guide Rods
"A" Emergency Diesel Generator Air Compressor	Corrective MR 79-662	NA	Broken Instrument Tubing	Compressor Would Start at 205 lbs. Instead of 220 lbs.	Replaced Tubing

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REPORT MONTH August 1979

#### SUMMARY OF OPERATING EXPERIENCES

##### Highlights

Vermont Yankee operated at 75.1% of rated thermal power for the month of August, 1979. Gross electrical generation for the month was 287,213 MWHe, or 71.5% of design electrical capacity.

##### Operations Summary

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

- 8-1 At the beginning of the report period, the plant was increasing power to 95% following repairs on the "A" Recirc MG Set Lube Oil Cooler Service Water Valve.
- 8-9 At 1820 hours the plant was shut down to repair a bonnet leak on the "A" Recirc Pump Discharge Valve. Reactor startup commenced at 2005 hours on 8-12, with the reactor achieving criticality at 0135 hours on 8-13.
- 8-14 At 1803 hours the reactor automatically scrammed due to power spikes caused by instabilities in the electronic pressure regulator. Reactor startup commenced at 2235 hours. The reactor was critical beginning at 0210 hours on 8-15. The generator was phased to the grid at 0727 hours.
- 8-31 At the conclusion of this report period, the plant was in the end of cycle coastdown, and was operating at 89% of rated thermal power.

956276