

VERMONT YANKEE NUCLEAR POWER STATION
MONTHLY STATISTICAL REPORT 84-10
FOR THE MONTH OF OCTOBER, 1984

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OPERATING DATA REPORT

Docket No. 50-271
 Date 841110
 Completed by F.J. Burger
 Telephone (802) 257-7711

OPERATING STATUS

Notes:

1. Unit Name: Vermont Yankee
2. Reporting Period: October
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 reasons:

N/A

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	745.00	7320.00	_____
12. Number of Hours Reactor was Critical	722.12	5651.28	85349.93
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	711.65	5473.49	82966.07
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	1041181.00	8095679.00	120256358.50
17. Gross Electrical Energy Generated (MWH)	346564.00	2714878.00	40007956.00
18. Net Electrical Energy Generated (MWH)	326312.00	2585992.00	37951008.00
19. Unit Service Factor	95.52	74.77	78.14
20. Unit Availability Factor	95.52	74.77	78.14
21. Unit Capacity Factor (using MDC Net)	86.91	70.09	70.92
22. Unit Capacity Factor (using DER Net)	85.21	68.73	69.54
23. Unit Forced Outage Rate	4.48	9.20	7.50

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: N/A
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 October

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	157
3	395
4	459
5	496
6	499
7	489
8	494
9	492
10	474
11	491
12	490
13	492
14	487
15	509
16	508

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	509
18	510
19	509
20	508
21	502
22	509
23	314
24	210
25	387
26	364
27	350
28	442 (25 hr. day)
29	507
30	512
31	512

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.

MSR.F2

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October

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No.	Date	1 Typed	Duration (hours)	2 Reason	3 Method of Shutting Down Reactor	License Event Report #	4 System Code	5 Component Code	Cause and Corrective Action to Prevent Recurrence
84-17 (cont)	840930	F	33.35	A	1	N/A	CD	VALVOP	Plant shutdown due to slow MSIV closing times caused by galled guide rods on valve actuator. The actuator was rebuilt and returned to service.
84-18	841023	F	0	A	4 Power Reduction	LER 84-22	EE	RELAYX	Commenced shutdown because both emergency diesel generators were out of service due to failed differential relays. Relays were repaired and returned to service. Shutdown terminated.
84-19	841026	F	0	4	4 Power Reduction	N/A	RB	CONROD	Power reduction for control rod pattern adjustment and other testing

1
F-Forced
S-Scheduled

2
A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training and 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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SAFETY-RELATED MAINTENANCE

EQUIPMENT	NATURE OF MAINTENANCE	LER OR OUTAGE NUMBER	MALFUNCTION		CORRECTIVE ACTION
			CAUSE	RESULT	
A Diesel Generator Lockout Circuit	Corrective MR 84-1968	N/A	Differential Relay Diode failure	Differential Relay tripped lockout. Diesel inop.	Replaced diode
B Diesel Generator Lockout Circuit	Corrective MR 84-1970	LER* 84-22	Differential Relay Diode failure	Differential Relay tripped lockout. Diesel inop.	Replaced diode
* Both diesels inop. at the same time					

REPORT MONTH October

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 87.7% of rated thermal power for the month. Gross electrical generation was 346564 MWh_e or 86.1 % 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 shut down to repair a MSIV valve actuator.

841001 At 2253 hrs. the reactor was critical.

841002 At 0921 hrs. the turbine generator was phased to the grid.

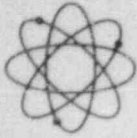
841023 At 0140 hrs. commenced a plant shutdown due to both emergency diesels being out of service.

841023 At 1820 hrs. required repairs were completed and a power ascension was initiated.

841026 At 1143 hrs. a power reduction was initiated for a control rod pattern adjustment and other testing.

841026 At 1930 hrs. a return to full power was initiated.

At the end of the reporting period, the plant was operating at 99.8% of rated thermal power.



VERMONT YANKEE NUCLEAR POWER CORPORATION

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GOVERNOR HUNT ROAD
VERNON, VERMONT 05354

VYV 84-562

November 10, 1984

U. S. Nuclear Regulatory Commission
Director, Office of Management Information
and Program Control
Washington, D.C. 20555

Dear Sir:

Submitted herewith is the Monthly Statistical Report for the Vermont Yankee Nuclear Power Station for the month of October, 1984.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

Warren P. Murphy
Warren P. Murphy
Vice President and
Manager of Operations

WPM/FJB/jb/MSR1.1

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