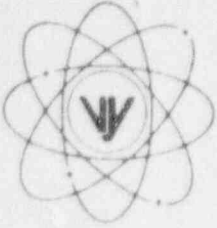


# VERMONT YANKEE NUCLEAR POWER CORPORATION



P.O. Box 157, Governor Hunt Road  
Vernon, Vermont 05354-0157  
(802) 257-7711

June, 10 1997  
BVY-97-074

United States Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Reference: (a) License No. DPR-28 (Docket No. 50-271)

In accordance with section 6.7.A.3 of the Vermont Yankee Technical Specifications, submitted herewith is the Monthly Statistical Report for the Vermont Yankee Nuclear Power Station for the month of May, 1997.

Sincerely,

VERMONT YANKEE NUCLEAR POWER CORPORATION



Gregory A. Maret  
Plant Manager

cc: USNRC Region I Administrator  
USNRC Resident Inspector - VYNPS  
USNRC Project Manager - VYNPS

11-1224

9706180171 970531  
PDR ADOCK 03000271  
R PDR



**VERMONT YANKEE NUCLEAR POWER STATION**

**MONTHLY STATISTICAL REPORT 97-05**

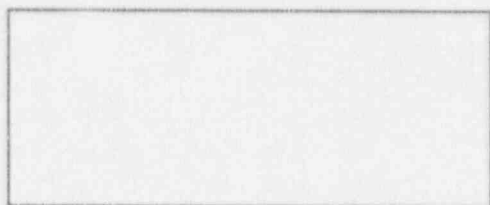
**FOR THE MONTH OF MAY 1997**

# OPERATING DATA REPORT

DOCKET NO. 50-271  
 DATE 970610  
 COMPLETED BY G.A. WALLIN  
 TELEPHONE (802)258-5414

## OPERATING STATUS

1. Unit Name: Vermont Yankee
2. Reporting Period: May
3. Licensed Thermal Power (MWt): 1593
4. Nameplate Rating (Gross MWe): 540
5. Design Electrical Rating (Net MWe): 522
6. Maximum Dependable Capacity (Gross MWe): 535
7. Maximum Dependable Capacity (Net MWe): 510
8. If changes, occur in capacity ratings (Items Number 3 through 7) since last report, give reasons:



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	3623.00	214751.00
12. Number Of Hours Reactor was Critical	597.37	3317.54	178284.20
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	565.87	3286.04	174959.94
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	889693.40	5213848.80	262860982.20
17. Gross Electrical Energy Generated	304949.00	1797381.00	87848803.00
18. Net Electrical Energy Generated (MWH)	292454.00	1728035.00	83543924.00
19. Unit Service Factor	76.00	90.70	80.80
20. Unit Availability Factor	76.00	90.70	80.80
21. Unit Capacity Factor (Using MDC Net)	77.10	93.50	76.50
22. Unit Capacity Factor (Using DER Net)	75.30	91.40	75.00
23. Unit Forced Outage Rate	20.58	7.10	4.65
24. Shutdowns scheduled over next 6 months (Type, Date, and Duration of Each): <u>N/A</u>			

25. If shut down at end of report period, estimated date of startup: N/A
26. Units In Test Status (prior to commercial operation): N/A

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast Achieved

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

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-271  
UNIT Vermont Yankee  
DATE 970610  
COMPLETED BY G.A. WALLIN  
TELEPHONE (802) 258-5414

MONTH May

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	0	17.	524
2.	0	18.	526
3.	0	19.	527
4.	0	20.	527
5.	0	21.	527
6.	0	22.	526
7.	0	23.	522
8.	142	24.	526
9.	491	25.	527
10.	515	26.	526
11.	528	27.	52
12.	518	28.	524
13.	528	29.	524
14.	528	30.	524
15.	527	31.	526
16.	527		

## 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 MAY

DOCKET NO 50-271  
UNIT NAME Vermont Yankee  
DATE 970610  
COMPLETED BY G.A. Wallin  
TELEPHONE (802) 258-5414

No.	Date	1 Type	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
97-04 (cont)	970501	F	146.63	B	3	N/A	EB	TRANSF	Mini-Outage Repairs
97-04 (cont)	970501	S	31.50	B	3	N/A	EB	TRANSF	Mini-Outage Repairs

1 F: Forced  
S: Scheduled

2 Reason:  
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-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 License  
Event Report (LER) File  
(NUREG 0161)

5 Exhibit I - Same Source

DOCKET NO. 50-271  
DATE 970610  
COMPLETED BY G.A. WALLIN  
TELEPHONE (802)258-5414

REPORT MONTH May

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 75.1% of rated thermal power for the month. Gross electrical generation was 304,949 MWh or 75.1% 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 00.0% of rated thermal power.

970507 At 0238 hours, the reactor was critical following completion of the mini-outage. (See Unit Shutdowns and Power Reductions)

970508 At 1008 hours, the turbine-generator was phased to the grid, and a return to full power was initiated.

970516 At 0001 hours, began complying with stricter thermal discharge requirements as delineated by our NPDES permit. These requirements, based on upstream river temperature, define operation of the Circulation Water system in open, hybrid or closed cycle.

At the end of the reporting period the plant was operating at 99.9% of rated thermal power.