



**Entergy Nuclear Northeast**  
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February 16, 2005  
BVY-05-013

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 6.6.B of the Vermont Yankee Technical Specifications,  
submitted herewith is the Monthly Statistical Report for the Vermont Yankee Nuclear  
Power Station for the month of January, 2005.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Maguire", with a stylized flourish at the end.

William F. Maguire  
General Manager, Plant Operations

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

IE24

**VERMONT YANKEE NUCLEAR POWER STATION**

**MONTHLY STATISTICAL REPORT 05-01**

**FOR THE MONTH OF JANUARY 2005**

# OPERATING DATA REPORT

DOCKETNO. 50-271  
DATE 050215  
COMPLETED BY G.A. WALLIN  
TELEPHONE (802)258-5414

## 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): 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: High pressure turbine was replaced during RFO-24 with a unit designed for 1912 MWt. This results in the unit running at a lower efficiency when at 1593 MWt or lower.

|   | This Month | Yr-to-Date | Cumulative   |
|---|------------|------------|--------------|
| 11. Hours in Reporting Period   | 744.00     | 744.00     | 284449.80    |
| 12. Number Of Hours Reactor was Critical  | 744.00     | 744.00     | 240204.22    |
| 13. Reactor Reserve Shutdown Hours  | 0.00       | 0.00       | 0.00         |
| 14. Hours Generator On-Line   | 744.00     | 744.00     | 236472.06    |
| 15. Unit Reserve Shutdown Hours   | 0.00       | 0.00       | 0.00         |
| 16. Gross Thermal Energy Generated(MWH)   | 1146127.20 | 1146127.20 | 359146204.38 |
| 17. Gross Electrical Energy Generated(MWH)  | 380997.00  | 380997.00  | 120650582.00 |
| 18. Net Electrical Energy Generated(MWH)  | 365760.00  | 365760.00  | 114850292.00 |
| 19. Unit Service Factor   | 100.00     | 100.00     | 83.10        |
| 20. Unit Availability Factor  | 100.00     | 100.00     | 83.10        |
| 21. Unit Capacity Factor(Using MDC Net)   | 96.40      | 96.40      | 79.80        |
| 22. Unit Capacity Factor(Using DER Net)   | 94.20      | 94.20      | 78.20        |
| 23. Unit Forced Outage Rate   | 0.00       | 0.00       | 3.89         |
| 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: <u>N/A</u>           |            |            |              |
| 26. Units In Test Status(prior to commercial operation): <u>N/A</u>                       |            |            |              |

Forecast Achieved

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

VYDPF 0411.01 (Sample)  
DP 0411 Rev. 8  
Page 1 of 1  
RT No. 13.F01.19F

## AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-271UNIT Vermont YankeeDATE 050215COMPLETED BY G.A. WALLINTELEPHONE (802)258-5414MONTH JANUARY

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|-----|--|
| 1.  | <u>512</u>                             | 17. | <u>513</u>                             |
| 2.  | <u>512</u>                             | 18. | <u>512</u>                             |
| 3.  | <u>512</u>                             | 19. | <u>509</u>                             |
| 4.  | <u>512</u>                             | 20. | <u>512</u>                             |
| 5.  | <u>511</u>                             | 21. | <u>512</u>                             |
| 6.  | <u>511</u>                             | 22. | <u>512</u>                             |
| 7.  | <u>512</u>                             | 23. | <u>512</u>                             |
| 8.  | <u>512</u>                             | 24. | <u>512</u>                             |
| 9.  | <u>512</u>                             | 25. | <u>512</u>                             |
| 10. | <u>511</u>                             | 26. | <u>512</u>                             |
| 11. | <u>512</u>                             | 27. | <u>512</u>                             |
| 12. | <u>512</u>                             | 28. | <u>512</u>                             |
| 13. | <u>484</u>                             | 29. | <u>512</u>                             |
| 14. | <u>281</u>                             | 30. | <u>513</u>                             |
| 15. | <u>276</u>                             | 31. | <u>513</u>                             |
| 16. | <u>376</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.

VYDPF 0411.02 (Sample)

DP 0411 Rev. 8

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RT No. 13.F01.18V

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JANUARY

DOCKET NO 50-271  
 UNIT NAME Vermont Yankee  
 DATE 050215  
 COMPLETED BY G.A. Wallin  
 TELEPHONE (802)258-5414

| No.   | Date   | 1<br>Type | Duration<br>(hours) | 2<br>Reason | 3<br>Method of<br>Shutting<br>Down<br>Reactor | License<br>Event<br>Report # | 4<br>System<br>Code | 5<br>Component<br>Code | Cause and Corrective<br>Action to Prevent<br>Recurrence.   |
|-------|--------|-----------|---------------------|-------------|---|------------------------------|---------------------|------------------------|--|
| 05-01 | 050113 | S         | 0.00                | B,H*        | 4<br>Power<br>Reduction                       | N/A                          | RB                  | CONROD                 | Turbine bypass, stop valve and MSIV full closure testing. Rod pattern exchange, single rod scram testing, and condenser water box maintenance. |

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) - rod pattern exchange

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

VYDPF 0411.03  
 DP 0411 Rev. 8  
 Page 1 of 1

DOCKET NO. 50-271  
DATE 050215  
COMPLETED BY G.A. Wallin  
TELEPHONE (802)258-5414

REPORT MONTH JANUARY

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 96.7% of rated thermal power for the month. Gross electrical generation was 380,997 MWh or 93.7% 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 99.9% of rated thermal power.

050113 At 2000 hours, commenced a power reduction to 62% to perform turbine bypass, stop valve and MSIV full closure testing. Also, a rod pattern exchange, single rod scram testing and condenser water box maintenance. (See Unit Shutdowns and Power Reductions)

050113 At 2040 hours, commenced turbine bypass valve testing.

050113 At 2055 hours, completed turbine bypass valve testing.

050113 At 2118 hours, commenced a rod pattern exchange.

050113 At 2210 hours, completed the rod pattern exchange.

050114 At 0025 hours, commenced condenser water box maintenance.

050114 At 0838 hours, commenced MSIV full closure testing.

050114 At 0904 hours, completed MSIV full closure testing.

050114 At 0931 hours, commenced turbine stop valve testing.

050114 At 1000 hours, completed turbine stop valve testing.

050114 At 1905 hours, commenced single rod scram testing.

050114 At 2325 hours, completed single rod scram testing.

050116 At 1234 hours, completed condenser water box maintenance and began a return to full power.

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