

VERMONT YANKEE NUCLEAR POWER STATION

MONTHLY STATISTICAL REPORT 84-04

FOR THE MONTH OF April, 1984

8405170104 840430  
PDR ADOCK 05000271  
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1504

# OPERATING DATA REPORT

DOCKET NO. 50-271  
DATE 840510  
COMPLETED BY FJ Burger  
TELEPHONE 802/257-7711

## OPERATING STATUS

1. Unit Name: Vermont Yankee
2. Reporting Period: April
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

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   | <u>719.00</u>     | <u>2903.00</u>    | <u>-----</u>        |
| 12. Number Of Hours Reactor Was Critical                                      | <u>706.07</u>     | <u>2782.68</u>    | <u>82481.33</u>     |
| 13. Reactor Reserve Shutdown Hours  | <u>0.00</u>       | <u>0.00</u>       | <u>0.00</u>         |
| 14. Hours Generator On-Line   | <u>701.67</u>     | <u>2752.37</u>    | <u>80244.95</u>     |
| 15. Unit Reserve Shutdown Hours   | <u>0.00</u>       | <u>0.00</u>       | <u>0.00</u>         |
| 16. Gross Thermal Energy Generated(MWH)                                       | <u>1061021.00</u> | <u>4246283.50</u> | <u>116406963.00</u> |
| 17. Gross Electrical Energy Generated(MWH)                                    | <u>360710.00</u>  | <u>1442688.00</u> | <u>38735766.00</u>  |
| 18. Net Electrical Energy Generated(MWH)                                      | <u>345774.00</u>  | <u>1384243.00</u> | <u>36749259.00</u>  |
| 19. Unit Service Factor   | <u>97.59</u>      | <u>94.81</u>      | <u>78.85</u>        |
| 20. Unit Availability Factor  | <u>97.59</u>      | <u>94.81</u>      | <u>78.85</u>        |
| 21. Unit Capacity Factor(Using MDC Net)                                       | <u>95.42</u>      | <u>94.61</u>      | <u>71.65</u>        |
| 22. Unit Capacity Factor(Using DER Net)                                       | <u>93.56</u>      | <u>92.77</u>      | <u>70.26</u>        |
| 23. Unit Forced Outage Rate   | <u>2.41</u>       | <u>5.19</u>       | <u>7.30</u>         |
| 24. Shutdowns Scheduled Over Next 6 Months(Type, Date, and Duration of Each): |                   |                   |                     |

Refueling and Maintenance Outage scheduled to start 6/16/84 and last 8 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 | _____    | _____    |

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-271

UNIT Vermont Yankee

DATE 840510

COMPLETED BY FJ Burger

TELEPHONE 302/257-7711

MONTH April

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1. 514  
2. 519  
3. 519  
4. 518  
5. 519  
6. 520  
7. 521  
8. 497  
9. 522  
10. 522  
11. 522  
12. 521  
13. 521  
14. 521  
15. 481  
16. 167

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17. 253  
18. 385  
19. 345  
20. 443  
21. 438  
22. 516  
23. 521  
24. 520  
25. 521  
26. 520  
27. 420  
28. 518  
29. 506  
30. 518  
31. ---

## 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 AprilDOCKET NO 50-271UNIT NAME Vermont YankeeDATE 840510COMPLETED BY FJ BurgerTELEPHONE 802/257-7711

| No.   | Date   | Typed <sup>1</sup> | Duration<br>(Hours) | Reason <sup>2</sup> | Method of<br>Shutting <sup>3</sup><br>Down Reactor | License<br>Event<br>Report# | System<br>Code <sup>4</sup> | Component<br>Code <sup>5</sup> | Cause & Corrective<br>Action to<br>Prevent Recurrence   |
|-------|--------|--------------------|---------------------|---------------------|--|-----------------------------|-----------------------------|--------------------------------|---|
| 84-06 | 840415 | S                  | 0                   | B                   | 4<br>Power<br>Reduction                            | N/A                         | RB                          | CONROD                         | Power reduction for control rod pattern adjustment and other surveillance.  |
| 84-07 | 840416 | F                  | 17.33               | A                   | 3  | LER<br>84-04                | CD                          | VALVOP                         | During testing an inboard MSIV went fully shut causing a high steam flow signal and a Group I isolation which generated the scram. Caused by a stuck spool in the actuator test pilot valve. Spool valve assembly contained dirt. The test pilot valve was replaced. See LER 84-04. |
| 84-08 | 840420 | S                  | 0                   | B                   | 4<br>Power<br>Reduction                            | N/A                         | RB                          | CONROD                         | Power reduction for control rod pattern exchange and equipment surveillance.  |

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

<sup>2</sup> Reason:  
A-Equipment Failure (Explain)  
B-Maintenance Test  
C-Refueling  
D-Regulatory Re. Action  
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

DOCKET NO. 50-271

UNIT Vermont Yankee

DATE 840510

COMPLETED BY FJ Burger

TELEPHONE 802/257-7711

SAFETY RELATED MAINTENANCE

| EQUIPMENT                                | NATURE OF<br>MAINTENANCE | LER OR OUTAGE<br>NUMBER | MALFUNCTION                              |   | CORRECTIVE ACTION                    |
|--|--------------------------|-------------------------|--|---|--------------------------------------|
|  |                          |                         | CAUSE                                    | RESULT  |                                      |
| RHR Valve V10-39A<br>Motor Operator      | Corrective<br>MR 84-0469 | N/A                     | Indeterminate                            | Cracked Valve<br>Operator Housing & Burned up<br>Motor                        | Replaced Valve Operator<br>and Motor |
| MSIV V2-80C Actuator Test<br>Pilot Valve | Corrective<br>MR 84-0564 | LER<br>84-4             | Dirt in Pilot<br>Valve Spool<br>Assembly | MSIV would go<br>full closed<br>instead of partially closed<br>during testing | Replaced Test Pilot<br>Valve         |

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REPORT MONTH April

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 92.63% of rated thermal power for the month. Gross electrical generation was 360,710 MWh<sub>e</sub> or 92.90% of design electrical capacity.

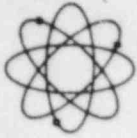
Operating Summary

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 99.9% of rated thermal power.

- 840415 At 0030 hrs. a power reduction was initiated for control rod pattern adjustment and equipment surveillance.
- 840415 At 0208 hrs. a return to full power was started.
- 840416 At 0742 hrs. the reactor automatically scrammed because of an inadvertent MSIV closure (See Unit Shutdowns and Power Reductions).
- 840416 At 2038 hrs. the reactor was critical.
- 840417 At 0102 hrs. the generator was phased onto the grid.
- 840420 At 2000 hrs. a power reduction was initiated for a control rod pattern exchange and equipment surveillance.
- 840420 At 2150 hrs. a return to full power was started.

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



# VERMONT YANKEE NUCLEAR POWER CORPORATION

P. O. BOX 157  
GOVERNOR HUNT ROAD  
VERNON, VERMONT 05354

VYV 84-206

May 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 April, 1984.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORP.

Warren P. Murphy  
Vice President and  
Manager of Operations

WPM:FJB/pt:403.011.1

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