



VERMONT YANKEE NUCLEAR POWER CORPORATION

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

December 10, 1990  
VYV 90-383

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Dear Sir:

Submitted herewith is the Monthly Statistical Report for the Vermont Yankee Nuclear Power Station for the month of November, 1990.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORP.

Warren P. Murphy  
Senior Vice President, Operations

- cc: 1) USNRC  
Region I  
475 Allendale Road  
King of Prussia, PA 19406
- 2) USNRC  
Resident Inspector, VYNPS

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VERMONT YANKEE NUCLEAR POWER STATION  
MONTHLY STATISTICAL REPORT 90-11  
FOR THE MONTH OF NOVEMBER, 1990

OPERATING DATA REPORT

DOCKET NO. 50-271  
 DATE 901210  
 COMPLETED BY G.A. Wallin  
 TELEPHONE (802)257-7711

OPERATING STATUS

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

NOTES:

|   | This Month | Yr-to-Date  | Cumulative   |
|---|------------|-------------|--------------|
| 11. Hours In Reporting Period   | 720.00     | 8016.00     | -----        |
| 12. Number Of Hours Reactor was Critical                                      | 698.97     | 6778.77     | 127444.63    |
| 13. Reactor Reserve Shutdown Hours  | 0.00       | 0.00        | 0.00         |
| 14. Hours Generator On-Line   | 690.37     | 6650.53     | 124627.60    |
| 15. Unit Reserve Shutdown Hours   | 0.00       | 0.00        | 0.00         |
| 16. Gross Thermal Energy Generated(MWH)                                       | 1073579.50 | 10160500.50 | 184170057.00 |
| 17. Gross Electrical Energy Generated   | 359723.00  | 3408892.00  | 61362781.00  |
| 18. Net Electrical Energy Generated(MWH)                                      | 345140.00  | 3247317.00  | 58263016.00  |
| 19. Unit Service Factor   | 95.88      | 82.96       | 78.15        |
| 20. Unit Availability Factor  | 95.88      | 82.96       | 78.15        |
| 21. Unit Capacity Factor(Using MDC Net)                                       | 95.11      | 80.38       | 72.49        |
| 22. Unit Capacity Factor(Using DER Net)                                       | 93.26      | 78.81       | 71.08        |
| 23. Unit Forced Outage Rate   | 4.12       | 2.33        | 5.55         |
| 24. Shutdowns scheduled over next 6 months(Type, Date, and Duration of Each): | N/A        |             |              |

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

|                      | Forecast | Achieved |
|----------------------|----------|----------|
| INITIAL CRITICALITY  | _____    | _____    |
| INITIAL ELECTRICITY  | _____    | _____    |
| COMMERCIAL OPERATION | _____    | _____    |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-271  
 UNIT Vermont Yankee  
 DATE 901210  
 COMPLETED BY G.A. Wallin  
 TELEPHONE (802)257-7711

MONTH November

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|-----|--|
| 1.  | 514                                    | 17. | 515                                    |
| 2.  | 514                                    | 18. | 511                                    |
| 3.  | 514                                    | 19. | 513                                    |
| 4.  | 27                                     | 20. | 514                                    |
| 5.  | 153                                    | 21. | 516                                    |
| 6.  | 389                                    | 22. | 514                                    |
| 7.  | 475                                    | 23. | 514                                    |
| 8.  | 502                                    | 24. | 514                                    |
| 9.  | 514                                    | 25. | 511                                    |
| 10. | 514                                    | 26. | 512                                    |
| 11. | 511                                    | 27. | 511                                    |
| 12. | 514                                    | 28. | 512                                    |
| 13. | 514                                    | 29. | 511                                    |
| 14. | 514                                    | 30. | 512                                    |
| 15. | 514                                    | 31. | —                                      |
| 16. | 514                                    |     |  |

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.

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER

DOCKET NO 50-271  
 UNIT NAME Vermont Yankee  
 DATE 901210  
 COMPLETED BY G.A. Wallin  
 TELEPHONE (802)257-7711

| No.   | Date   | 1<br>Type | Duration<br>(hours) | 2<br>Reason | Method of<br>Shutting Down<br>Reactor 3 | License<br>Event<br>Reports | System<br>Code<br>4 | Component<br>Code<br>5 | Cause and Corrective<br>Action to<br>Prevent Recurrence                                  |
|-------|--------|-----------|---------------------|-------------|---|-----------------------------|---------------------|------------------------|--|
| 90-10 | 901104 | F         | 29.63               | A           | 3                                       | 90-15                       | HA                  | MEC/UN                 | Turbine tripped causing a reactor scram due to an emergency governor switch malfunction. |
| 90-11 | 901107 | S         | 0.00                | H           | N/A                                     | N/A                         | RB                  | CONROD                 | Rod Pattern Adjustment.  |

1 F: Forced  
 S: Scheduled

2 Reason:  
 A-Equipment Failure (Explain)- See LER 90-15  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training and License Examination  
 F-Administrative  
 G-Operator 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 Licensee  
 Event Report (LER) File  
 (NUREG 0161)

5 Exhibit I - Same Source



DOCKET NO. 50-271  
UNIT Vermont Yankee  
DATE 901210  
COMPLETED BY G.A. Wallin  
TELEPHONE (802)257-7711

REPORT MONTH November

## SUMMARY OF OPERATING EXPERIENCES

### Highlights

Vermont Yankee operated at 93.6% of rated thermal power for the month. Gross electrical generation was 359,723 MWh or 92.5% 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.

- 901104 At 0120 hours, the turbine tripped and the reactor scrammed. (See Unit Shutdowns and Power Reductions)
- 901104 At 2222 hours, the reactor was critical.
- 901105 At 0658 hours, the turbine-generator was phased to the grid and a return to full power was initiated.
- 901107 At 1600 hours, reducing power to 75% to perform a rod pattern adjustment. (See Unit Shutdowns and Power Reductions)
- 901107 At 1755 hours, completed the rod pattern adjustment and a return to full power was initiated.

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

DOCKET NO. 50-271  
DATE 900710  
COMPLETED BY G.A. Wallin  
TELEPHONE (802)257-7711

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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

NOTES:

|  | This Month | Yr-to-Date | Cumulative   |
|--|------------|------------|--------------|
| 11. Hours In Reporting Period            | 720.00     | 4343.00    |              |
| 12. Number Of Hours Reactor was Critical | 690.80     | 4184.32    | 124850.18    |
| 13. Reactor Reserve Shutdown Hours       | 0.00       | 0.00       | 0.00         |
| 14. Hours Generator On-Line              | 682.57     | 4098.18    | 122075.25    |
| 15. Unit Reserve Shutdown Hours          | 0.00       | 0.00       | 0.00         |
| 16. Gross Thermal Energy Generated(MWH)  | 1046693.50 | 6416675.00 | 180426231.50 |
| 17. Gross Electrical Energy Generated    | 349204.00  | 2167559.00 | 60121448.00  |
| 18. Net Electrical Energy Generated(MWH) | 330064.00  | 2073428.00 | 57089127.00  |
| 19. Unit Service Factor                  | 94.75      | 94.35      | 78.35        |
| 20. Unit Availability Factor             | 94.75      | 94.35      | 78.35        |
| 21. Unit Capacity Factor(Using MDC Net)  | 90.96      | 94.73      | 72.70        |
| 22. Unit Capacity Factor(Using DER Net)  | 89.18      | 92.88      | 71.29        |
| 23. Unit Forced Outage Rate              | 5.20       | 3.06       | 5.63         |

24. Shutdowns scheduled over next 6 months(Type, Date, and Duration of Each): 1990 Refueling Outage scheduled to begin on September 1, 1990

and conclude on October 13, 1990.

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

|                      | Forecast | Achieved |
|----------------------|----------|----------|
| INITIAL CRITICALITY  | _____    | _____    |
| INITIAL ELECTRICITY  | _____    | _____    |
| COMMERCIAL OPERATION | _____    | _____    |

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CORRECTED ADJUSTMENT by +.40

NOVEMBER 1990 REPORT REFLECTS ADJUSTMENT  
TO Y-T-D AND CUMULATIVE TOTALS.