

VERMONT YANKEE NUCLEAR POWER STATION
MONTHLY STATISTICAL REPORT 84-09
FOR THE MONTH OF SEPTEMBER, 1984

8410180495 840930
PDR ADDCK 05000271
R PDR

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OPERATING DATA REPORT

Docket No. 50-271
 Date 841010
 Completed by FJ Burger
 Telephone (802)257-7711

OPERATING STATUS

Notes:

1. Unit Name: Vermont Yankee
2. Reporting Period: September
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 | 720.00 | 6,575.00 | -- |
| 12. Number of Hours Reactor was Critical | 463.00 | 4,929.16 | 84,627.81 |
| 13. Reactor Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 14. Hours Generator On-Line | 435.83 | 4,761.84 | 82,254.42 |
| 15. Unit Reserve Shutdown Hours | 0.00 | 0.00 | 0.00 |
| 16. Gross Thermal Energy Generated (MWH) | 588,189.50 | 7054,498.00 | 119,215,177.50 |
| 17. Gross Electrical Energy Generated (MWH) | 190,453.00 | 2368,314.00 | 39,661,392.00 |
| 18. Net Electrical Energy Generated (MWH) | 177,944.00 | 2259,680.00 | 37,624,696.00 |
| 19. Unit Service Factor | 60.53 | 72.42 | 78.01 |
| 20. Unit Availability Factor | 60.53 | 72.42 | 78.01 |
| 21. Unit Capacity Factor (using MDC Net) | 49.04 | 68.19 | 70.80 |
| 22. Unit Capacity Factor (using DER Net) | 48.08 | 66.86 | 69.43 |
| 23. Unit Forced Outage Rate | 39.47 | 9.87 | 7.52 |

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: 10/1/84
26. Units in Test Status (prior to commercial operation):

Initial Criticality
 Initial Electricity
 Commercial Operation

| Forecast | Achieved |
|----------|----------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

AVERAGE DAILY UNIT POWER LEVEL

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 Completed by F.J. Burger
 Telephone (802) 257-7711

Month September

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 1 | <u>385</u> |
| 2 | <u>382</u> |
| 3 | <u>385</u> |
| 4 | <u>386</u> |
| 5 | <u>364</u> |
| 6 | <u>424</u> |
| 7 | <u>423</u> |
| 8 | <u>424</u> |
| 9 | <u>420</u> |
| 10 | <u>426</u> |
| 11 | <u>465</u> |
| 12 | <u>464</u> |
| 13 | <u>465</u> |
| 14 | <u>460</u> |
| 15 | <u>466</u> |
| 16 | <u>447</u> |

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|--------------|
| 17 | <u>466</u> |
| 18 | <u>59</u> |
| 19 | <u>0</u> |
| 20 | <u>0</u> |
| 21 | <u>0</u> |
| 22 | <u>0</u> |
| 23 | <u>0</u> |
| 24 | <u>0</u> |
| 25 | <u>0</u> |
| 26 | <u>0</u> |
| 27 | <u>0</u> |
| 28 | <u>0</u> |
| 29 | <u>10</u> |
| 30 | <u>93</u> |
| 31 | <u>-----</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September

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| 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 |
|-------|--------|-----------|---------------------|-------------|--|------------------------------|---------------------|------------------------|---|
| 84-15 | 840905 | S | 0 | B | 4 - power reduction | N/A | RB | CONROD | Power reduction for control rod pattern adjustment + other surveillance. |
| 84-16 | 840918 | F | 275.17 | H | 1 | LER 84-21 | RA | XXXXXX | Plant shutdown to investigate and correct steam carry-under caused by untightened moisture separator in the reactor vessel. Separator was re-installed and controlling procedures changed to prevent re-occurrence. |
| 84-17 | 840930 | F | 9.0 | A | 1 | N/A | CD | VALVUP | Plant shutdown to investigate and repair slow MSIV closing time caused by galled guide rods on valve actuator. The actuator was rebuilt and returned to service. |

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)

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 | |
| RCIC Valve, V13-15 Position Indication | Corrective MR84-1704 | LER 84-20 | Failed Relay | No Position Indication | Replaced Relay |
| HPCI Valve, V23-14 | Corrective MR84-1743 | N/A | Cracked Seat | Seat Leakage | Replaced Wedge and stem |
| Main Station Battery | Corrective MR84-1776 | N/A | Copper Contamination | Degraded Cells | Replaced Affected Cells |
| MSIV, V2-80D Actuator | Corrective MR84-1851 | N/A | Spring Plate Bound up on Guide Rods | Slow Closure Time | Replaced Parts |

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REPORT MONTH September

SUMMARY OF OPERATING EXPERIENCES

Highlights

Vermont Yankee operated at 51.28% of rated thermal power for the month. Gross electrical generation was 190,453 MWH_e or 48.98% 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 80% capacity due to an inoperable condensate pump.

840905 At 1000 hrs, initiated power reduction for a control rod pattern exchange and other surveillance.

840905 At 1447 hrs, started a return to 80% power.

840910 At 1230 hrs, condensate pump returned to service, started increasing power.

840911 At 0600 hrs, power level held at 95% due to steam carry-under in the reactor vessel.

840918 At 0200 hrs, commenced a reactor shutdown to investigate and correct carry-under.

840918 At 0518 hrs, the generator was removed from the grid.

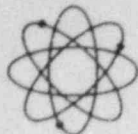
840929 At 0114 hrs, commenced a reactor startup.

840929 At 1628 hrs, the generator was phased to the grid.

840930 At 1330 hrs, commenced a plant shutdown to investigate MSIV timing problems.

840930 At 1500 hrs, the generator was removed from the grid.

At the end of the reporting period the plant was shutdown.



VERMONT YANKEE NUCLEAR POWER CORPORATION

P. O. BOX 157
GOVERNOR HUNT ROAD
VERNON, VERMONT 05354
VYV 84-500

October 10, 1984

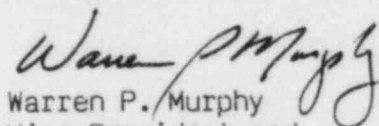
U. S. Nuclear Regulatory Commission
Director, Office of Management Information
and Program Control
Washington, D.C. 20555

Dear Sir:

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

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION


Warren P. Murphy
Vice President and
Manager of Operations

WPM/FJB/jb/MSR1.1

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