



**Boston Edison**

Pilgrim Nuclear Power Station  
Rocky Hill Road  
Plymouth, Massachusetts 02360

**L. J. Olivier**

Vice President Nuclear Operations  
and Station Director

December 13, 1996  
BECO Ltr. #96-106

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Docket No. 50-293  
License No. DPR-35

**NOVEMBER 1996 MONTHLY REPORT**

In accordance with Pilgrim Nuclear Power Station Technical Specification 6.9.A.2, a copy of the Operational Status Summary for Pilgrim Nuclear Power Station is attached for your information and planning. Should you have any questions concerning this report, please contact me directly.

  
L. J. Olivier

RLC/dmc/9458

Attachment

cc: Mr. Hubert Miller  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Senior Resident Inspector

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# OPERATING DATA REPORT

DOCKET NO. 50-293  
NAME: Pilgrim  
COMPLETED BY: R. L. Cannon  
TELEPHONE: (508) 830-8321  
REPORT MONTH November 1996

## OPERATING STATUS

## NOTES

1. Unit Name Pilgrim I
2. Reporting Period November 1996
3. Licensed Thermal Power (MWt) 1998
4. Nameplate Rating (Gross MWe) 678
5. Design Electrical Rating (Net MWe) 655
6. Maximum Dependable Capacity (Gross MWe) 696
7. Maximum Dependable Capacity (Net MWe) 670
8. If Changes Occur in Capacity Ratings (Item Number 3 Through 7) Since Last Report, Give Reasons:  
No Changes
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

|  | <u>This Month</u> | <u>Yr-to-Date</u> | <u>Cumulative</u> |
|--|-------------------|-------------------|-------------------|
|--|-------------------|-------------------|-------------------|

AVERAGE DAILY UNIT POWER LEVEL

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| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|-----|--|
| 1   | 658                                    | 17  | 663                                    |
| 2   | 652                                    | 18  | 662                                    |
| 3   | 656                                    | 19  | 662                                    |
| 4   | 654                                    | 20  | 663                                    |
| 5   | 653                                    | 21  | 663                                    |
| 6   | 648                                    | 22  | 663                                    |
| 7   | 646                                    | 23  | 660                                    |
| 8   | 644                                    | 24  | 662                                    |
| 9   | 323                                    | 25  | 663                                    |
| 10  | 409                                    | 26  | 662                                    |
| 11  | 618                                    | 27  | 661                                    |
| 12  | 635                                    | 28  | 662                                    |
| 13  | 625                                    | 29  | 661                                    |
| 14  | 663                                    | 30  | 659                                    |
| 15  | 663                                    |     |  |
| 16  | 661                                    |     |  |

This format lists the average daily unit power level in MWe-Net for each day in the reporting month, computed to the nearest whole megawatt.

## OPERATIONAL SUMMARY

|               |                       |
|---------------|-----------------------|
| DOCKET NO.    | <u>50-293</u>         |
| NAME:         | <u>Pilgrim</u>        |
| COMPLETED BY: | <u>R. L. Cannon</u>   |
| TELEPHONE:    | <u>(508) 830-8321</u> |
| REPORT MONTH  | <u>November 1996</u>  |

The plant entered the reporting period at 100% CTP. Limited by the control rod pattern, the plant gradually descended to 97.5% CTP by November 8, 1996. On November 9, 1996, the plant commenced a scheduled reduction in power to approximately 50% CTP to perform a control rod pattern change, backwash the main condenser and complete selective maintenance in the condenser bay. On November 11, 1996, at approximately 1550 hours, the plant attained 100% CTP where it was essentially maintained through the end of the reporting period.

### SAFETY RELIEF VALVE CHALLENGES

#### MONTH OF NOVEMBER 1996

Requirement: NUREG-0737 T.A.P. II.K.3.3

There were no safety relief valve challenges during the reporting period.

An SRV challenge is defined as anytime an SRV has received a signal to operate via reactor pressure signal (ADS) or control switch (manual). Reference BECo Ltr. #81-01 dated January 5, 1981.

## REFUELING INFORMATION

|               |                       |
|---------------|-----------------------|
| DOCKET NO.    | <u>50-293</u>         |
| NAME:         | <u>Pilgrim</u>        |
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| TELEPHONE:    | <u>(508) 830-8321</u> |
| REPORT MONTH  | <u>November 1996</u>  |

The following refueling information is included in the Monthly Report as requested in an NRC letter to BECo, dated January 18, 1978:

For your convenience, the information supplied has been enumerated so that each number corresponds to equivalent notation utilized in the request.

1. The name of this facility is Pilgrim Nuclear Power Station, Docket Number 50-293.
2. Scheduled date for next refueling shutdown: February 1, 1997.
3. Scheduled date for restart following next refueling: March 14, 1997.
4. Due to their similarity, requests 4, 5, & 6 are responded to collectively under #6.
5. See #6.
6. The new fuel loaded during the 1995 refueling outage (RFO-10) is of a different design than that loaded in the previous refueling outage and consists of 136 new fuel assemblies.
7.
  - (a) There are 580 fuel assemblies in the core.
  - (b) There are 1962 fuel assemblies in the spent fuel pool. This includes 197 new fuel assemblies awaiting fuel loading for cycle 12.
  - (c) There are 11 fuel assemblies on-site awaiting receipt inspection for RFO-11.
8.
  - (a) The station is presently licensed to store 3859 spent fuel assemblies. The spent fuel storage capacity is 2891 fuel assemblies. However, 23 spent fuel locations cannot be used due to refuel bridge limitations.
  - (b) The planned spent fuel storage capacity is 3859 fuel assemblies.
9. With present spent fuel in storage, the spent fuel pool now has the capacity to accommodate an additional 1103 fuel assemblies.

PILGRIM NUCLEAR POWER STATION MAJOR SAFETY RELATED MAINTENANCE

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| SYSTEM | COMPONENT   | MALFUNCTION        | CAUSE                        | MAINTENANCE   | CORRECTIVE ACTION TO PREVENT RECURRENCE            | ASSOCIATED LER |
|--------|-------------|--------------------|------------------------------|---------------|--|----------------|
| SSW    | Pump P-208E | Low discharge head | Service wear and degradation | Overhaul pump | Install upgraded pump parts during future overhaul | None           |

# UNIT SHUTDOWNS AND POWER REDUCTIONS

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| NO. | DATE    | TYPE<br>1 | DURATION<br>(HOURS) | REASON<br>2 | METHOD OF<br>SHUTTING DOWN<br>REACTOR | LICENSE<br>EVENT<br>REPORT | SYSTEM<br>CODE<br>4 | COMPONENT<br>CODE<br>5 | CAUSE & CORRECTIVE<br>ACTION TO PREVENT<br>RECURRENCE  |
|-----|---------|-----------|---------------------|-------------|---------------------------------------|----------------------------|---------------------|------------------------|--|
| 27  | 11/9/96 | S         | 0.0                 | B           | N/A                                   | N/A                        | N/A                 | N/A                    | Power reduction to approximately 50% CTP to perform a backwash of main condenser, perform a control rod pattern change, and complete selective maintenance in the condenser bay. |

|                     |  |  |  |
|---------------------|--|--|--|
| 1                   | 2  | 3  | 4&5  |
| F-Forced<br>S-Sched | A-Equip Failure<br>B-Main or Test<br>C-Refueling<br>D-Regulatory Restriction<br>E-Operator Training<br>& License Examination<br>F-Admin<br>G-Operator Error<br>H-Other | 1-Manual<br>2-Manual Scram<br>3-Auto Scram<br>4-Continued<br>5-Reduced Load<br>9-Other | Exhibit F & H<br>Instructions for<br>Preparations of<br>Data Entry Sheet<br>Licensee Event Report<br>(LER) File (NUREG-1022) |