



BOSTON EDISON

Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360

E. Thomas Boulette, PhD
Vice President Nuclear Operations
and Station Director

November 12, 1992
BECO Ltr. #92-127

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

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

Subject: October 1992 Monthly Report

In accordance with PNPS 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.

E. Thomas Boulette

WJM/bal

Attachment

cc: Mr. Thomas T. Martin
Regional Administrator, Region 1
U.S. Nuclear Regulatory Commission
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OPERATING DATA REPORT

DOCKET NO. 50-293
 DATE November 12, 1992
 COMPLETED BY W. Munro
 TELEPHONE (508) 747-8474

OPERATING STATUS

Notes

1. Unit Name Pilgrim 1
 2. Reporting Period October 1992
 3. Used 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 (Items Number 3 Through 7) Since Last Report, Give Reasons:
None

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>
11. Hours In Reporting Period	<u>745.0</u>	<u>7320.0</u>	<u>174408.0</u>
12. Number Of Hours Reactor Was Critical	<u>562.8</u>	<u>6760.4</u>	<u>105121.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>557.7</u>	<u>6703.2</u>	<u>101206.1</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated(MWH)	<u>1096680.0</u>	<u>13115040.0</u>	<u>176819520.0</u>
17. Gross Electrical Energy Generated(MWH)	<u>377760.0</u>	<u>4520220.0</u>	<u>59726634.0</u>
18. Net Electrical Energy Generated (MWH)	<u>363483.0</u>	<u>4351042.0</u>	<u>57401990.0</u>
19. Unit Service Factor	<u>74.9</u>	<u>91.6</u>	<u>58.0</u>
20. Unit Availability Factor	<u>74.9</u>	<u>91.6</u>	<u>58.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>72.8</u>	<u>88.7</u>	<u>49.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>74.5</u>	<u>90.7</u>	<u>50.2</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>6.0</u>	<u>12.2</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Refueling Outage #9 starting 4-3-93 for a duration of 58 days</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup 11-22-92

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
UNIT Pilgrim I
DATE November 12, 1992
COMPLETED BY W. Munro
TELEPHONE (508) 747-8474

MONTH October 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>569</u>	17	<u>663</u>
2	<u>662</u>	18	<u>663</u>
3	<u>661</u>	19	<u>663</u>
4	<u>661</u>	20	<u>661</u>
5	<u>661</u>	21	<u>662</u>
6	<u>662</u>	22	<u>662</u>
7	<u>663</u>	23	<u>609</u>
8	<u>663</u>	24	<u>60</u>
9	<u>661</u>	25	<u>0</u>
10	<u>662</u>	26	<u>0</u>
11	<u>664</u>	27	<u>0</u>
12	<u>664</u>	28	<u>0</u>
13	<u>661</u>	29	<u>0</u>
14	<u>663</u>	30	<u>0</u>
15	<u>663</u>	31	<u>0</u>
16	<u>662</u>		

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.

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
DOCKET NO. 50-293

Operational Summary for October 1992

The unit started the reporting period at approximately 64 percent core thermal power (CTP). Following maintenance on 'C' Reactor Feed Pump, the pump was started and power ascension commenced. At approximately 1500 hours the unit attained 100 percent CTP. This power level was essentially maintained until October 23 when at approximately 2036 hours a controlled shutdown was initiated to facilitate the planned Midcycle Maintenance and Surveillance Outage. During power reduction, a planned backwash of the main condenser was accomplished at approximately 50 percent (CTP). Following backwashing of the Main Condenser, power was increased temporarily to approximately 65 percent CTP to perform a thermal backwash. At approximately 0200 hours on October 24 power reduction continued, and at 0540 hours the turbine generator was tripped off line. All control rods were inserted at 1006 hours, and the mode switch was placed in SHUTDOWN position at 1045 hours. The unit ended the reporting period in cold shutdown condition with midcycle maintenance activities underway. Startup from the midcycle outage is scheduled for November 22, 1992.

Weekly control rod exercises were performed on October 3, 10 and 17, 1992. Minor power reductions occurred on October 9 and 10 while performing reactivity manipulations for training purposes.

Safety Relief Valve Challenges
Month of October 1992

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

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

An SRV challenge is defined as anytime an SRV has received a signal to operate via reactor pressure, auto signal (ADS) or control switch (manual). Ref. BECo ltr. #81-01 dated 01/05/81.

REFUELING INFORMATION

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: April 3, 1993
3. Scheduled date for restart following next refueling: May 30, 1993
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 1991 refueling outage was of the same design as loaded in the previous outage and consisted of 168 assemblies.
7.
 - (a) There are 580 fuel assemblies in the core.
 - (b) There are 1489 fuel assemblies in the spent fuel pool.
8.
 - (a) The station is presently licensed to store 2320 spent fuel assemblies. The actual usable spent fuel storage capacity is 2320 fuel assemblies.
 - (b) The planned spent fuel storage capacity is 2320 fuel assemblies.
9. With present spent fuel in storage, the spent fuel pool now has the capacity to accommodate an additional 831 fuel assemblies.

PILGRIM NUCLEAR POWER STATION
MAJOR SAFETY RELATED MAINTENANCE

<u>SYSTEM</u>	<u>COMPONENT</u>	<u>MALFUNCTION</u>	<u>CAUSE</u>	<u>MAINTENANCE</u>	<u>CORRECTIVE ACTION TO PREVENT RECURRENCE</u>	<u>ASSOCIATED LER</u>
Reactor Vessel (RV)	Reactor Vessel water level control instrumentation reference leg 'B' condensing chamber 12B.	False high reactor vessel water level signal causing automatic actuation of the Main Steam System/Group 1 portion of the Primary Containment Isolation Control System (PCIS). PR92-9203	Water level perturbations (spiking) in the 'B' reference leg of the reactor vessel water level instrumentation.	Correct leakage at fittings etc. for Instrument Rack C-2206 (Rack B). Measure instrument bypass valve leakage on Racks C-2205 and C-2206. Confirm accuracy of resistance temperature devices (RTDs) previously installed per Temporary Modification 91-44.	Refer to Associated LER.	LER 92-013-00 (To be issued)
Salt Service Water (SSW)	Pump P208E	SSW P208E pump failed surveillance Test Procedure 8.5.3.2 (Operability Test) due to low discharge flow. PR92-9184	Under investigation	Replaced seven (7) spider bearings, installed rebuilt bowl and two (2) intermediate columns which were out of tolerance, and a new pump motor.	Bid specifications sent to various vendors to investigate vibration problems and limited pump life.	N/A

Midcycle Maintenance outage commenced October 24, 1992 and maintenance activity is being accomplished in accordance with outage schedule.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.

50-293

NAME PILGRIM 1DATE November 12, 1992COMPLETED BY W. MUNROTELEPHONE 508 747-8474REPORT MONTH October, 1992

NO.	DATE	TYPE1	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN REACTOR	LICENSE EVENT REPORT#	SYSTEM CODE4	COMPONENT CODE5	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
06	10/24/92	S	187.3	B	1	N/A	N/A	N/A	Shutdown for Mid-cycle Outage.

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