

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293  
UNIT Pilgrim 1  
DATE 1/13/86  
COMPLETED BY P. Hamilton  
TELEPHONE (617)746-7900

MONTH December 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>662.</u>	17	<u>668.</u>
2	<u>667.</u>	18	<u>667.</u>
3	<u>667.</u>	19	<u>667.</u>
4	<u>669.</u>	20	<u>668.</u>
5	<u>665.</u>	21	<u>670.</u>
6	<u>667.</u>	22	<u>662.</u>
7	<u>666.</u>	23	<u>667.</u>
8	<u>666.</u>	24	<u>667.</u>
9	<u>666.</u>	25	<u>668.</u>
10	<u>668.</u>	26	<u>668.</u>
11	<u>668.</u>	27	<u>668.</u>
12	<u>667.</u>	28	<u>668.</u>
13	<u>666.</u>	29	<u>661.</u>
14	<u>667.</u>	30	<u>668.</u>
15	<u>574.</u>	31	<u>667.</u>
16	<u>666.</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.

8601230146 851231  
PDR ADOCK 05000293  
R PDR

JE24  
111

# OPERATING DATA REPORT

DOCKET NO. 50-293  
 DATE 1/13/86  
 COMPLETED BY P. Hamilton  
 TELEPHONE (617)746-7900

## OPERATING STATUS

1. Unit Name Pilgrim 1 Notes  
 2. Reporting Period December 1985  
 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) 690  
 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

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	744.0	8760.0	114504.0
12. Number Of Hours Reactor Was Critical	744.0	8159.0	78075.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	8014.8	75583.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1477968.0	14953656.0	131905464.0
17. Gross Electrical Energy Generated (MWH)	512860.0	5144390.0	44376604.0
18. Net Electrical Energy Generated (MWH)	493771.0	4950971.0	42647898.0
19. Unit Service Factor	100.0	91.5	66.0
20. Unit Availability Factor	100.0	91.5	66.0
21. Unit Capacity Factor (Using MDC Net)	99.1	84.4	55.6
22. Unit Capacity Factor (Using DER Net)	101.3	86.3	56.9
23. Unit Forced Outage Rate	0.0	6.3	8.9
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>None</u>		

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		

(9/77)

## 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: September 1986
3. Scheduled date for restart following refueling: November 1986
4. Due to their similarity, requests 4, 5, & 6 are responded to collectively under #6:
5. See #6.
6. The new fuel, which was loaded during the 1983-84 refueling outage, is of the same P8x8R design, as loaded the previous outage and consists of 160 P8DRB282 assemblies. In addition, 32 GE6B-P8DRB282 assemblies were also loaded.
7. (a) There are 580 fuel assemblies in the core.  
(b) There are 1,128 fuel assemblies in the spent fuel pool.
8. (a) The station is presently licensed to store 2320 spent fuel assemblies. The actual spent fuel storage capacity is \*1573 fuel assemblies at present.  
(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 \*445 fuel assemblies.

\*Fuel pool rerack to 2320 is in progress.

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

Operational Summary for December 1985

The unit was operated at an average daily power level ranging between 98.7 and 100.0 percent during the month with the exception of the fifteenth. On the fifteenth the unit was operated at an average daily power level of 85.6 percent due to a stuck control rod which occurred during a control rod exercise. During the month, high vibration on the #9 turbine bearing was experienced.

\*The capacity factor for calendar year 1985 was 84.4 percent, which is the best since initial plant startup.

---

Safety Relief Valve Challenges  
Month of December 1985

Requirement: NUREG-0737

T.A.P.

II.K.3.3.

There were no safety relief valve challenges during the month.

Month December 1985

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>
PCIS	(5) High Flow Switches	Setpoint Drift Outside T.S. Limit	Probable Misalignment of Linkage	Realigned linkages, modified switches, and recalibrated.	Realigned linkages, modified switches, and recalibrated.	85-032
Aux. Elec.	"B" Diesel Generator	Fuel Oil Leak on 1 Cylinder	Loose Fuel Line	Tightened fuel supply line.	Routine Maintenance	N/R
CRD	Control Rod 14-35	Drifted In	Faulty Withdrawn Solenoid Valves	Replaced solenoid valves.	Routine Maintenance	
SSW	Pump P208E	High Vibration	Normal Wear	Repaired/rebuilt pump and motor.	Routine Maintenance	N/R
SBLC	R/V 1105B	Loose Flange to Valve Connection	Unknown	Cleaned, tightened connection.	Routine Maintenance	N/R

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293  
UNIT NAME Pilgrim 1  
DATE 1/13/86  
COMPLETED BY P. Hamilton  
TELEPHONE (617) 746-7900

REPORT MONTH December 1985

NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSE EVENT REPORT #	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
-----	------	-------------------	---------------------	---------------------	----------------------------------------------------	------------------------------	-----------------------------	--------------------------------	-------------------------------------------------------

No shutdowns or power reductions this month.

1	2	2	3	4 & 5
F-Forced S-Sched	A-Equip Failure B-Maint 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 Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-1022)

BOSTON EDISON COMPANY  
800 BOYLSTON STREET  
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON  
SENIOR VICE PRESIDENT  
NUCLEAR

January 13, 1986  
BECO Ltr. #86-003

Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attn: Document Control Desk

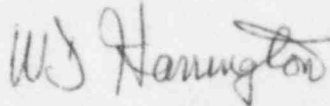
License No. DPR-35  
Docket No. 50-293

Subject: December 1985 Monthly Report

Dear Sir:

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.

Respectfully submitted,



W. D. Harrington

PJH:caw

Attachment

cc: Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

IE24  
1/1