

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293  
UNIT Pilgrim 1  
DATE July 12, 1985  
COMPLETED BY P. Hamilton  
TELEPHONE (617)746-7900

MONTH June 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>627.</u>	17	<u>476.</u>
2	<u>480.</u>	18	<u>611.</u>
3	<u>666.</u>	19	<u>666.</u>
4	<u>666.</u>	20	<u>665.</u>
5	<u>666.</u>	21	<u>665.</u>
6	<u>665.</u>	22	<u>664.</u>
7	<u>662.</u>	23	<u>572.</u>
8	<u>548.</u>	24	<u>667.</u>
9	<u>666.</u>	25	<u>666.</u>
10	<u>667.</u>	26	<u>664.</u>
11	<u>666.</u>	27	<u>358.</u>
12	<u>666.</u>	28	<u>294.</u>
13	<u>665.</u>	29	<u>608.</u>
14	<u>520.</u>	30	<u>662.</u>
15	<u>7.</u>	31	<u>N/A</u>
16	<u>13.</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.

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# OPERATING DATA REPORT

DOCKET NO. 50-293  
 DATE July 12, 1985  
 COMPLETED BY P. Hamilton  
 TELEPHONE (617)746-7900

## OPERATING STATUS

1. Unit Name	Pilgrim 1	Notes
2. Reporting Period	June 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	720.0	4343.0	110087.0
12. Number Of Hours Reactor Was Critical	693.5	3869.5	73786.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	676.5	3756.3	71324.8
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1243536.0	6793368.0	123745176.0
17. Gross Electrical Energy Generated (MWH)	426070.0	2336060.0	41568274.0
18. Net Electrical Energy Generated (MWH)	410000.0	2246937.0	39943864.0
19. Unit Service Factor	94.0	86.5	64.8
20. Unit Availability Factor	94.0	86.5	64.8
21. Unit Capacity Factor (Using MDC Net)	85.0	77.2	54.2
22. Unit Capacity Factor (Using DER Net)	86.9	79.0	55.4
23. Unit Forced Outage Rate	0.0	11.9	9.4
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	None		

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: August 1986
3. Scheduled date for restart following refueling: November 1986
- 4.
5. Due to their similarity, requests 4, 5, & 6 are responded to collectively:
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 1770 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 642 fuel assemblies.

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

Operational Summary for June 1985

The month commenced with the unit at 100% power. On the first, power was reduced to approximately 50% to perform a condenser backwash. While at reduced power, maintenance was performed on the "A" travelling screen and a solenoid valve (SV 122) for control rod drive 10-23.

The unit was returned to 100% power on the second and maintained at that level until the eighth when power was reduced for main condenser backwashing and control rod scram timing. During this time frame, the HPCI system and a containment cooling sub-system valve (MO-1001-34A) were found inoperable. Licensee Event Report (LER) 85-012 details the HPCI event.

On the eighth, MO-1001-34A was returned to service, the unit was returned to 100% power and maintained at that level until the fourteenth. HPCI was returned to service on the tenth. On the fourteenth, a unit shutdown commenced for planned turbine maintenance. Several hours after the generator was taken off-line, the reactor scrammed on high water level (Ref.: LER 85-014). The generator was synchronized to the grid on the sixteenth after completion of turbine maintenance.

On the seventeenth, power was increased to an average daily level of 71%. Maintenance was performed on the first point heater extraction valve and a control rod pattern exchange was completed.

From the eighteenth through the twenty-sixth, the unit essentially maintained 100% power with the exception of the weekend when a power reduction was made for a condenser backwash. On the twenty-fourth, an electrical storm caused an audible surge (bump) on the main generator although power generation was not interrupted.

On the twenty-seventh and twenty-eighth, power was reduced to approximately 50% in response to fouling of the travelling screens due to heavy seas. The unit was returned to 100% power on the twenty-ninth and maintained at this level through the thirtieth. HPCI was removed from service on the thirtieth for maintenance on the turbine exhaust diaphragm. The system was returned to service on the same day.

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Safety Relief Valve Challenges  
Month of June 1985

Requirement: NUREG-0737

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There were no safety relief valve challenges during the month.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293  
 UNIT NAME Pilgrim 1  
 DATE July 12, 1985  
 COMPLETED BY P. Hamilton  
 TELEPHONE (617) 746-7900

REPORT MONTH June 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
14	6/2/85	S	0.0	H	5	N/A	ZZ	ZZ	Reduced power to backwash main condenser.
15	6/15/85	S	43.5	B	3	85-014	ZZ	ZZ	Took unit off-line for planned turbine maintenance. Rx scrammed on high level while off-line.
16	6/27/85	F	0.0	H	5	N/A	ZZ	ZZ	Reduced power due to fouled travelling screens from heavy seas.

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)

PILGRIM NUCLEAR POWER STATION  
MAJOR SAFETY RELATED MAINTENANCE

Month June 1985

<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>
HPCI	Turbine	Tripped and Isolated	Control Valve Linkage Binding	Removed test equipment causing binding.	Ref.: LER 85-12-01	
HPCI	Turbine Exhaust Rupture Disk	Ruptured	Fatigue	Replaced disk.	N/R - Routine Maintenance	N/A
RHR	MO-1001-34A	Overload Alarm	Defective Hand-Wheel Drive Gear Housing	Replaced hand-wheel drive gear housing & limit switch drive gear.	N/R - Routine Maintenance	N/A
RWCU	DPIS #1244	Out of Calibration	Setpoint Drift	Recalibrated	N/R	N/A
HVAC Secondary Contain- ment Isol.	Damper AON-90	Broken Drive Gear	Aging Gear	Replaced gear.	Routine Maintenance (New Design Dampers on Order)	N/A



BOSTON EDISON COMPANY  
800 BOYLSTON STREET  
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON  
SENIOR VICE PRESIDENT  
NUCLEAR

July 12, 1985  
BECO Ltr. #85-128

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: June 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*  
for

W. D. Harrington

:caw

Attachment

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

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