

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293  
UNIT Pilgrim 1  
DATE 8/14/85  
COMPLETED BY P. Hamilton  
TELEPHONE (617)746-7900

MONTH July 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>663.</u>	17	<u>666.</u>
2	<u>662.</u>	18	<u>664.</u>
3	<u>657.</u>	19	<u>664.</u>
4	<u>558.</u>	20	<u>663.</u>
5	<u>663.</u>	21	<u>601.</u>
6	<u>663.</u>	22	<u>664.</u>
7	<u>663.</u>	23	<u>641.</u>
8	<u>664.</u>	24	<u>631.</u>
9	<u>662.</u>	25	<u>644.</u>
10	<u>664.</u>	26	<u>665.</u>
11	<u>660.</u>	27	<u>595.</u>
12	<u>651.</u>	28	<u>554.</u>
13	<u>663.</u>	29	<u>664.</u>
14	<u>663.</u>	30	<u>665.</u>
15	<u>663.</u>	31	<u>665.</u>
16	<u>665.</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 8/14/85  
 COMPLETED BY P. Hamilton  
 TELEPHONE (617)746-7900

OPERATING STATUS

1. Unit Name	<u>Pilgrim 1</u>	Notes
2. Reporting Period	<u>July 1985</u>	
3. Licensed Thermal Power (Mwt)	<u>1998</u>	
4. Nameplate Rating (Gross MWe)	<u>678</u>	
5. Design Electrical Rating (Net MWe)	<u>655</u>	
6. Maximum Dependable Capacity (Gross MWe)	<u>690</u>	
7. Maximum Dependable Capacity (Net MWe)	<u>670</u>	
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:	<u>None</u>	

9. Power Level To Which Restricted, If Any (Net MWe)	<u>None</u>
10. Reasons For Restrictions, If Any	<u>N/A</u>

	<u>This Month</u>	<u>Yr-to-Date</u>	<u>Cumulative</u>
11. Hours In Reporting Period	<u>744.0</u>	<u>5087.0</u>	<u>110831.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>4613.5</u>	<u>74530.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>744.0</u>	<u>4500.3</u>	<u>72068.8</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>1456032.0</u>	<u>8249400.0</u>	<u>125201208.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>501770.0</u>	<u>2837830.0</u>	<u>42070044.0</u>
18. Net Electrical Energy Generated (MWH)	<u>483196.0</u>	<u>2730133.0</u>	<u>40427060.0</u>
19. Unit Service Factor	<u>100.0</u>	<u>88.5</u>	<u>65.0</u>
20. Unit Availability Factor	<u>100.0</u>	<u>88.5</u>	<u>65.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>96.9</u>	<u>80.1</u>	<u>54.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.2</u>	<u>81.9</u>	<u>55.7</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>10.2</u>	<u>9.3</u>
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):

	<u>Forecast</u>	<u>Achieved</u>
INITIAL CRITICALITY	<u>_____</u>	<u>_____</u>
INITIAL ELECTRICITY	<u>_____</u>	<u>_____</u>
COMMERCIAL OPERATION	<u>_____</u>	<u>_____</u>

## 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. 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 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.

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293  
 UNIT NAME Pilgrim 1  
 DATE 8/14/85  
 COMPLETED BY P. Hamilton  
 TELEPHONE (617) 746-7900

REPORT MONTH July 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
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No reportable shutdowns or power reductions occurred during July 1985.

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  
PILGRIM NUCLEAR POWER STATION  
DOCKET NO. 50-293

Operational Summary for July 1985

The month commenced with the unit at 100% power. This power level was maintained until the third when a power reduction was made for a condenser backwash.

On the fourth, the unit was returned to 100% power. Full power was essentially maintained until the twenty-first when power was reduced in response to loss of steam to the Augmented Off-Gas (AOG) jet compressor. Subsequent to AOG repairs, the unit was returned to full power on the twenty-second.

On the twenty-third, power level was reduced in response to an increase in the AOG system temperature upstream of the recombiner. The unit was returned to full power on the twenty-fifth after resolution of the AOG temperature increase. Full power was maintained until the twenty-seventh when power was reduced for a condenser backwash. While at reduced power, maintenance was performed on the "B" reactor feed-pump minimum flow valve. Subsequent to completion of maintenance, the unit was returned to full power on the twenty-eighth and maintained at that level through the end of the month.

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Safety Relief Valve Challenges  
Month of July 1985

Requirement: NUREG-0737

T.A.P.

II.K.3.3

There were no safety relief valve challenges during the month.

Month July 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>
RCIC	RCIC Vac. Pump (P-222)	Received Overload Alarm While Running	Overload Heater Blown	Replaced with new overload heater.	Routine Maintenance	N/R
HPCI	Hanger H-23-1-15SS	Bent Paddle on Smasher Attachment	Improper Installation of Attachment	Replaced with new paddle.	Re-emphasize proper installation of hanger attachments.	N/R
Containment Atmospheric Control	TRU-9045	TE Failed	Age	Installed Temporary Modification 85-35.	Replace TE during next opening of torus.	N/R
Aux. Electrical	"A" Diesel	Shutdown on High Jacket Water Temp.	Setpoint Drift	Recalibrated instrument.	Routine Maintenance	N/R
Aux. Electrical	"A" Diesel	Water in Fuel Oil Storage Tank	Unknown	Pumped water out.	Increased sampling frequency.	LER to be issued.
Aux. Electrical	"B" Diesel	Leaking Drain Line to Muffler	Age	Rewelded drain line.	PDC 84-41 will replace drain line with new design.	N/R

Month July 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>
HVAC Secondary Containment Isol.	Damper AO/N 83	Gears Misaligned	Loose Linkage	Realigned gears and tightened linkage.	New dampers on order.	LER to be issued.
HVAC Secondary Containment Isol.	Damper AO/N 82	Gears Misaligned	Worn Gears	Realigned gears and replaced worn gears.	New dampers on order.	LER to be issued.
HVAC Secondary Containment Isol.	Damper AO/N 90	Gears Misaligned	Worn Gear	Realigned gears and replaced worn gears.	New dampers on order.	LER to be issued.

BOSTON EDISON COMPANY  
800 BOYLSTON STREET  
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON  
SENIOR VICE PRESIDENT  
NUCLEAR

August 14, 1985  
BECo Ltr. #85-150

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

Attn: Document Control Desk

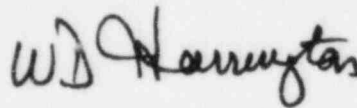
License No. DPR-35  
Docket No. 50-293

Subject: July 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

:caw

Attachment

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

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