

OPERATING DATA REPORT

DOCKET NO. 50-293  
 DATE 02-07-83  
 COMPLETED BY G.G. Whitney  
 TELEPHONE 1-617-746-7900

OPERATING STATUS

1. Unit Name: Pilgrim I
2. Reporting Period: January, 1983
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

Notes

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	<u>744.0</u>	<u>744.0</u>	<u>88944.0</u>
12. Number Of Hours Reactor Was Critical	<u>744.0</u>	<u>744.0</u>	<u>62689.3</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>744.0</u>	<u>60623.2</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>1449072.0</u>	<u>1449072.0</u>	<u>104162664.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>507630.0</u>	<u>507630.0</u>	<u>34834454.0</u>
18. Net Electrical Energy Generated (MWH)	<u>488596.0</u>	<u>488596.0</u>	<u>33470107.0</u>
19. Unit Service Factor	<u>100.0</u>	<u>100.0</u>	<u>68.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>100.0</u>	<u>68.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>98.0</u>	<u>98.0</u>	<u>56.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>100.3</u>	<u>100.3</u>	<u>57.5</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>9.6</u>

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: Unit Operating

26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	<u>----</u>	<u>----</u>
INITIAL ELECTRICITY	<u>----</u>	<u>----</u>
COMMERCIAL OPERATION	<u>----</u>	<u>----</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293

UNIT Pilgrim I

DATE 02/07/83

COMPLETED BY G.G. Whitney

TELEPHONE 1-617-746-7900

MONTH January, 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	669
2	669
3	670
4	669
5	670
6	669
7	669
8	670
9	669
10	669
11	670
12	669
13	669
14	670
15	669
16	438

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	656
18	669
19	668
20	670
21	669
22	669
23	659
24	669
25	669
26	669
27	669
28	668
29	547
30	664
31	666

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.

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

REPORT MONTH January, 1983

DOCKET NO. 50-293  
 UNIT NAME Pilgrim I  
 DATE 02/07/83  
 COMPLETED BY G.G. Whitney  
 TELEPHONE 1-617-746-7900

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
1	83/01/16	S	0.0	B	5	NA	HF	HTEXCH	Load Reduction To Backwash Main Condenser And Test Turbine Stop Valves.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

<sup>5</sup>  
 Exhibit I - Same Source

## REFUELING INFORMATION

The following refueling information is included in the Monthly Report as requested in a letter to Mr. G. C. Andognini 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, 1983
3. Scheduled date for restart following refueling: November, 1983
- 4.
5. Due to their similarity, requests 4, 5, & 6 are responded to collectively:
6. The fuel, which had been loaded during the 1981 scheduled refueling outage, is of the same P8x8R design, as loaded the previous outage consisting of 112 P8DRB282 assemblies and 60 P8DRB265 assemblies.
7. (a) There are 580 fuel assemblies in the core.  
(b) There are 936 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 834 fuel assemblies.

BOSTON EDISON COMPANY  
PILGRIM NUCLEAR POWER STATION

Summary of Operations for JANUARY, 1983

The unit operated at 100% (MWE) until 1/2/83 when power was reduced for control rod exercises and returned to 100% the same day. Condensate demineralizers were worked on throughout the month.

On 1/5/83, reactor water sample isolation valve, AO-220-44, was found to be inoperable. The redundant in-line valve, AO-220-45, was isolated and red tagged closed to comply with Technical Specifications (Ref: LER 83-001/03L-0). On 1/9/83, power was reduced to 90% for control rod exercises and returned to 100%.

On 1/15/83, power was reduced for condenser backwash, surveillances and to repair oil leaks on the "A" reactor feedwater pump.

On 1/6/83, control rod number 10-31, could not be withdrawn and was electrically disabled at position 00. The supply breaker for the "A" RPS was found to be overheated and a  $\frac{1}{2}$  scram was initiated until replacement was made. (Ref: LER 83-004/03L-0). Return to full power was made later the same day (1/16/83).

A reduction in power to 90% was made on 1/23/83 for control rod exercises and rod number 06-15 drifted to position 10. A further reduction to 70% was made, the rod withdrawn to position 48 and return to 100% was achieved.

A condenser backwash on 1/29/83 required a power reduction to 50% and control rod 10-31 was moved to position 48 and electrically disabled. Twenty five additional control rods were timed and the unit returned to 100% power.

SAFETY/RELIEF VALVE CHALLENGES FOR THE MONTH OF JANUARY, 1983

No safety/relief valve challenges occurred during the month of January, 1983.

PILGRIM NUCLEAR POWER STATION

Month January, 1983

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
RPS	Supply Breaker #5ACB1A	Coil	overheated	Replaced changed	Single pole replaced with 3 pole.	83-004/03L-0
CRD	#10-31	Would not withdraw	Worn Seals	Changed directional solenoids and friction tested.	Will change at next refuel outage.	N/A
CRD	#06-15	Insert time too fast	Normal wear	Adjusted speed control	N/A	N/A
APRM	Proportional Amplifiers 260-8A+8B	Setpoint drift	Unknown at this time	Recalibrated outputs	Monitor outputs and recalibrate if necessary	83-002/01T-0
RWCS	DPIS 1243	Setpoint drift	Loose switch plate screw	Recalibrated and tightened screw	None required	83-003/03L-0
RW Sample Isolation	A0-220-44	Would not close	Unknown	Closed inline valve	Will repair at next drywell entry of sufficient duration	83-001/03L-0
Reactor Building Containment	Outer door seal	Ripped rubber seal	Wear	Replaced seal	N/A	N/A