

OPERATING DATA REPORT

DOCKET NO. 50-293
DATE 03/09/83
COMPLETED BY G.G. Whitney
TELEPHONE 1-617-746-7900

OPERATING STATUS

1. Unit Name: Pilgrim 1
2. Reporting Period: February, 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.
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
None

Notes

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>672.0</u>	<u>1416.0</u>	<u>89616.0</u>
12. Number Of Hours Reactor Was Critical	<u>630.9</u>	<u>1374.9</u>	<u>63320.2</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>623.8</u>	<u>1367.8</u>	<u>61247.0</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>1208208.0</u>	<u>2657280.0</u>	<u>105370872.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>421080.0</u>	<u>928710.0</u>	<u>35255534.0</u>
18. Net Electrical Energy Generated (MWH)	<u>405181.0</u>	<u>893777.0</u>	<u>33875288.0</u>
19. Unit Service Factor	<u>92.8</u>	<u>96.6</u>	<u>68.3</u>
20. Unit Availability Factor	<u>92.8</u>	<u>96.6</u>	<u>68.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>90.0</u>	<u>94.2</u>	<u>56.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>92.1</u>	<u>96.4</u>	<u>57.7</u>
23. Unit Forced Outage Rate	<u>7.2</u>	<u>3.4</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 1
DATE 03/09/83
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TELEPHONE 1-617-746-7900

MONTH February, 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	667.	17	663
2	667.	18	665
3	667.	19	666
4	666.	20	630
5	649.	21	667
6	666.	22	665
7	666.	23	667
8	666.	24	666
9	667.	25	666
10	666.	26	666
11	666.	27	664
12	639.	28	664
13	9.	29	0
14	0	30	0
15	348	31	0
16	625		

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 February, 1983

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 UNIT NAME Pilgrim 1
 DATE 03/09/83
 COMPLETED BY G.G. Whitney
 TELEPHONE 1-617-746-7900

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
2	83/02/13	F	48.2	H	3	83-007/03L	EA	ZZZZZZ	Scram due to load reject from salt build up on insulators in switchyard.

¹
 F: Forced
 S: Scheduled

²
 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)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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

⁵
 Exhibit I - Same Source

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

Summary of Operations for February, 1983

The month began with the unit operating at 100% reactor power. The "A" TBCCW heat exchanger was out of service to repair leaking tubes. It was returned to service 2/3/83. On 2/5/83 while performing control rod exercise, control rod 22-39 inserted to position 16. Reactor power was reduced to 65% to withdraw the rod and returned to 100% power. On 2/7/83 "B" TBCCW heat exchanger was removed from service to repair leaks. On 2/12/83 "A" standby gas treatment system was declared inoperable to replace charcoal in the filters. The reactor scrambled on 2/13/83 due to load reject at 0039. At 1025, a loss of offsite power due to salt buildup in the switchyard occurred from a Northeast storm. "A" standby gas treatment system filter was declared operable 2/16/83. The reactor was brought critical at 1745 on 2/14/83 and synchronized onto the grid at 0047 on 2/15/83.

100% power was achieved on 2/17/83.

On 2/20/83 while exercising control rods, rod 18-31 inserted to position 26. Power was reduced to 65%, the rod was withdrawn and the unit returned to 100% reactor power. On 2/24/83 "B" standby gas treatment was declared inoperable due to solenoid valve on sprinkler system leaking causing charcoal to become wet. "B" SBGT was returned to service 2/28/83.

Safety/Relief Valve Challenges for the month of February, 1983

There were no challenges to relief valves during February.

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.

PILGRIM NUCLEAR POWER STATION

Month February, 1983

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED L.
Reactor Water Clean Up	1201-2(R/W Cleanup 1/B Isolation valve)	Cleanup A&B w/n start	S-2 LT Switch inop	Temp Mod repair when available	Attributed to normal wear	NA
Core Spray	MO-1400-4A Core spray A injection valve	2 bolts fell out	vibration	replaced bolts inspected & retorqued all bolts	Isolated case	LER to be issued
Service Water	B, SSW Pump	Pump vibration	Normal wear	oil change and meggar	Rebuild pump, perform motor PM	NA
Feedwater	1705-2C MSL Rad monitor	Out of calibra-	Unknown	Recalibrated per S.M1-13	None	NA
Standby gas treatment	B SBGT	Wet charcoal	Deluge System Failure	Replaced all 24 charcoal filters	Install valve in proper orientation to correct design error	LER to be issued
Diesel Generator	"A" Diesel Gen	Broken Belt	Worn	Replaced	Failure considered normal wear	83-009/03L-0
Standby Gas Treatment	A SBGT	Failed Test	Age	Installed 11 new charcoal filters in first charcoal bank A train	Procedures adequate to detect end of life of filters	83-006/03L-0
Diesel Generator	B Diesel Gen	Broken Belt	Worn	Replaced	Failure considered normal wear.	83-009/03L-0
N/A	Emergency air breathing apparatus	None	N/A	Removed from Control Room	Potential personnel safety hazard and system no longer required.	N/A