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, 1981

3. Scheduled date for restart following refueling:

4.

5. Due to their similarity, requests 4, 5, & 6 are responded to collectively:

6. The fuel, which had been loaded during the 1980 scheduled refueling outage, is of the new P8x8R design, consisting of approximately 64 P8DRB282 assemblies and 120 P8DRB265 assemblies.

7. (a) There are 580 fuel assemblies in the core.
   (b) There are 764 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 1006 fuel assemblies.

OPERATING DATA REPORT

DOCKET NO. 50-293
DATE 2/11/81
COMPLETED BY G. G. Whitney
TELEPHONE 617-746-7900

OPERATING STATUS

1. Unit Name: Pilgrim I
2. Reporting Period: January, 1981
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	744.0	744.0	71424.0
12. Number Of Hours Reactor Was Critical	726.1	726.1	50910.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	716.3	716.3	49223.2
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1296936.0	1296936.0	83586312.0
17. Gross Electrical Energy Generated (MWH)	444410.0	444410.0	27773774.0
18. Net Electrical Energy Generated (MWH)	427360.0	427360.0	26677967.0
19. Unit Service Factor	96.3	96.3	68.9
20. Unit Availability Factor	96.3	96.3	68.9
21. Unit Capacity Factor (Using MDC Net)	85.7	85.7	55.7
22. Unit Capacity Factor (Using DER Net)	87.7	87.7	57.0
23. Unit Forced Outage Rate	3.7	3.7	10.4

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: Unit Operating
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
UNIT Pilgrim I
DATE 2/11/81
COMPLETED BY G. G. Whitney
TELEPHONE 617-746-7900

MONTH January, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	671	17	663
2	671	18	421
3	610	19	340
4	392	20	483
5	654	21	518
6	646	22	587
7	669	23	661
8	670	24	573
9	669	25	666
10	669	26	664
11	670	27	665
12	671	28	316
13	666	29	103
14	668	30	361
15	668	31	453
16	668		

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.

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1981

DOCKET NO. 50-293
UNIT NAME Pilgrim I
DATE 2/11/81
COMPLETED BY G. G. Whitney
TELEPHONE 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
1	1/4/81	S	0.0	B	1	N/A	CB	GENERA	Repair of brushes on A & B reactor recirculation motor-generator sets.
2	1/18/81	S	0.0	B	1	N/A	HB	HTEXCH	Bypass of "B" Low pressure heater train and repair of 1-2 water box tailpipe.
3	1/28/81	F	27.7	B	4	N/A	HA	INSTRU	Reactor scram due to inadvertant high water trip during surveillance test.
4	1/29/81	F	0.0	H	1	N/A	HB	HTEXCH	"B" high and low pressure heater trains have been isolated limiting power to 75%.

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

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PILGRIM NUCLEAR POWER STATION

MONTH JANUARY 1981

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED L.
10	"B" RHR Heat Exch	Head Gasket Leak		Furmanited Head Flange	Furmanite is Permanent	
11	SBLC Pump	Leak		Replaced Head Gasket		
27	1-2 Water Box	Pipe Leaking		Made Temporary Repairs	Investigate/Planning	
29	"E" SSWP	Check Valve Leaking		Replaced Disc		
27	"D" Screen	Bearing Worn		Replaced Bearing		
18	"B" Cond. Pump	High Vibration		Replaced Motor Bearings		

BOSTON EDISON COMPANY

PILGRIM NUCLEAR POWER STATION

Summary of Operations for January, 1981

The month of January began with the unit operating at 100% reactor power. The unit operated at 100% thru January 4th when a unit reduction to 50% power was conducted to repair brushes on A & B reactor recirculation motor-generator sets and other minor maintenance. The unit was returned to 100% power and operated at this level until January 18th.

On January 18th the unit power was reduced to 50% power to backwash the main condenser and bypass the "B" Low Pressure Heater Train. During this power reduction, a 3½" crack was identified in the 1-2 waterbox (Main Condenser) outlet piping. Power increase was commenced and unit returned to 80% on January 19th.

Problems with control of level in the "B" Low Pressure Heater Train limited reactor power to 80% until January 22nd. On January 23rd, feedwater heaters were returned to service and unit power reached 100% on January 23rd. Shortly after reaching 100%, increased leakage in the 1-2 outlet piping necessitated a power reduction to 55% to remove the waterbox.

Power was increased to 100% on January 24th and continued to operate at this power until 1125 hours on January 28th. At this time, the reactor scrammed due to surveillance testing of Reactor High Water Trip. The unit was started up and synchronized to the grid @1506 hours on January 29th. Power was increased to 75% and limited to that power for the remainder of the month because "B" Low and High Pressure Heater Trains were isolated.