OPERATING DATA REPORT

DOCKET NO. 50-293
DATE October 11, 1985
COMPLETED BY P. Hamilton
TELEPHONE (617)746-7900

OPERATING STATUS

1. Unit Name Pilgrim 1 — Notes
2. Reporting Period September 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	6551.0	112295.0
12. Number Of Hours Reactor Was Critical	592.5	5950.0	75866.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	561.5	5805.8	73374.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated(MWH)	1051080.0	10751760.0	127703568.0
17. Gross Electrical Energy Generated(MWH)	357980.0	3695490.0	42927704.0
18. Net Electrical Energy Generated (MWH)	344490.0	3555815.0	41252742.0
19. Unit Service Factor	78.0	88.6	65.3
20. Unit Availability Factor	78.0	88.6	65.3
21. Unit Capacity Factor (Using MDC Net)	71.4	81.0	54.8
22. Unit Capacity Factor (Using DER Net)	73.0	82.9	56.1
23. Unit Forced Outage Rate	5.3	8.5	9.2

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)

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
UNIT Pilgrim 1
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MONTH September 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	39.	17	661.
2	0.	18	661.
3	0.	19	660.
4	0.	20	659.
5	0.	21	655.
6	0.	22	653.
7	134.	23	663.
8	585.	24	662.
9	613.	25	656.
10	653.	26	659.
11	629.	27	440.
12	654.	28	224.
13	643.	29	572.
14	658.	30	614.
15	659.	31	-
16	649.		

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.

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: September 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.

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

Operational Summary for September 1985

On the first, while at reduced power to perform a condenser backwash, the reactor scrammed due to load reject at 0521 hours. The load reject was the result of arcing in the switchyard caused by salt build-up on the insulators from a heavy ocean storm.

While shutdown, the switchyard was washed and a drywell entry was made to replace the "B" recirculation pump mechanical seal which had been leaking. The seal replacement was completed and plant startup commenced on the fourth. While testing the "B" recirculation pump on the 5th, the new seal failed and the reactor was again shut down. Seal repairs were completed on the 7th and the unit was synchronized to the grid on the 7th at approximately 1243 hours.

On the eighth, a control rod pattern change was completed and power was increased to an average daily level of 87%. From the ninth through the twenty-sixth, the unit operated at an average daily power level of 92%--99%. During this time frame, slight power reductions were required at low tide in order to maintain adequate condenser vacuum. Slight power reductions also were required on the eleventh in response to potential problem with HPCI system and on the twentieth when the "A" Emergency Diesel and the LPCI System were simultaneously out of service for a short period of time.

On the twenty-seventh, power was reduced to approximately 20% in response to Hurricane Gloria. Highest winds recorded during the storm were 75 mph as detected on the 220' elevation of the meteorological tower. No storm damage to the Station was identified.

The unit was removed from the grid on the twenty-eighth at approximately 0115 hours to wash the switchyard. Normally, the switchyard is washed live, but, due to low demand for power as the result of downed power lines, the generator was taken off-line. The generator was synchronized to the grid approximately 7.5 hours later that day. Power was increased to an average daily level of 92% by the end of the month.

Items of Interest

The annual Emergency Drill was successfully completed on the fifth.

Safety Relief Valve Challenges
Month of September 1985

Requirement: NUREG-0737 T.A.P. II.K.3.3

There were no safety relief valve challenges during the month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293
UNIT NAME Pilgrim 1
DATE October 11, 1985
COMPLETED BY P. Hamilton
TELEPHONE (617) 746-7900

REPORT MONTH September 1985

NO.	DATE	TYPE[1]	DURATION (HOURS)	REASON[2]	METHOD OF SHUTTING DOWN REACTOR[3]	LICENSE EVENT REPORT #	SYSTEM CODE[4]	COMPONENT CODE[5]	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
18	9/1/85	F	151.0	H	3	85-025	ZZ	ZZ	Scram on load reject due to salt on insulators from storm.
18 (Continued)	9/2/85	S	127.0	H	4	N/R	ZZ	ZZ	While shutdown, repaired B recirc. pump seal as planned.
19	9/28/85	F	7.5	H	1	N/R	ZZ	ZZ	Took unit off-line due to Hurricane Gloria.

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)

Month September 1985

PILGRIM NUCLEAR POWER STATION

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
Containment Atmos. Control	AO-5033	No Valve Indication	Limit Switch	Set limits.	Routine Maintenance	N/R
Instr. Control	Mode Switch	Broken Key	Wear	Removed key from lock.	Routine Maintenance	N/R
Electrical Power	"A" Battery Ground	1301-32 Moisture-Ground	Steam Leak	Dried out switch/ repaired steam leak.	Routine Maintenance	N/R
Aux. Electrical	"A" Diesel Generator	Fuel Booster Pump Broken Belt	Wear	Replaced connector.	Routine Maintenance	N/R
RCIC	P221 Condensate Pump	Will not operate.	Contactor Mechanism Binding	Disassembled, cleaned, and lubricated.	Routine Maintenance	N/R
LPCI	MO-1001-29B	Would not operate.	Faulty Heaters	Replaced block and heaters.	Routine Maintenance	LER 85-027 to be issued.
Neutron Monitoring	IRM B	Erratic Indication	Loose Connector Under Vessel	Re-tightened connector and re-taped.	Routine Maintenance	N/R
Main Steam	Acoustic Monitor S/RV 3B	In Alarm - No other indication of open valve.	Loose Connection	Tightened connection.	Routine Maintenance	N/R

Month September 1985

PILGRIM NUCLEAR POWER STATION

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
Secondary Containment	Damper AO/N-95	Gears Misaligned	Normal Wear	Re-aligned.	Secondary Containment dampers to be replaced RFO #7.	N/R
Secondary Containment	Damper AO/N-90	No valve indication on start of SBGT.	Pinched Diaphragm	Re-positioned diaphragm.	Routine Maintenance	N/R
Structural	Outer Truck Lock Door Seal	Leaking Door Seal	Normal Wear	Replaced door seal.	Routine Maintenance	N/R
HPCI	HPCI Exhaust Line	Linear indication found on exhaust line to torus.	Original fabrication	Removed indication.	Routine Maintenance	N/R

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

October 11, 1985
BECo Ltr. #85-184

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: September 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

PJH:caw

Attachment

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

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