AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
UNIT Pilgrim 1
DATE June 13, 1985
COMPLETED BY P. Hamilton
TELEPHONE (617)746-7900

MONTH May 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	667.	17	660.
2	659.	18	666.
3	641.	19	666.
4	298.	20	667.
5	401.	21	666.
6	650.	22	665.
7	659.	23	655.
8	608.	24	660.
9	657.	25	662.
10	665.	26	554.
11	667.	27	667.
12	666.	28	666.
13	662.	29	646.
14	666.	30	660.
15	628.	31	664.
16	575.		

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 June 13, 1985
COMPLETED BY P. Hamilton
TELEPHONE (617)746-7900

OPERATING STATUS

1. Unit Name Pilgrim 1 Notes
2. Reporting Period May 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:
Revised MDC Gross / Net Upward per Management Directive, dated 5/2/85.
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	3623.0	109367.0
12. Number Of Hours Reactor Was Critical	744.0	3176.0	73092.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	3079.8	70648.3
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated(MWH)	1415712.0	5549832.0	122501640.0
17. Gross Electrical Energy Generated(MWH)	488440.0	1909990.0	41142204.0
18. Net Electrical Energy Generated (MWH)	470229.0	1836937.0	39533864.0
19. Unit Service Factor	100.0	85.0	64.6
20. Unit Availability Factor	100.0	85.0	64.6
21. Unit Capacity Factor (Using MDC Net)	94.3	75.7	54.0
22. Unit Capacity Factor (Using DER Net)	96.5	77.4	55.2
23. Unit Forced Outage Rate	0.0	14.2	9.5

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)

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.

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

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 May 1985

The month commenced with the unit at approximately 100% power which was maintained until the third when power was reduced to facilitate cleaning of the condenser waterboxes which became fouled due to rough seas. On the fourth and fifth, both sides of the condenser were backwashed and heat treated and the "B" recirculation Motor Generator (MG) set brushes were changed out.

Full power was achieved on the sixth and essentially maintained until the eighth when a slight power reduction was made in response to high differential pressure across the condensate demineralizers. Subsequent to maintenance on the demineralizers, power was increased and maintained at an average daily level between 98% and 100% until the fifteenth. During that time frame, a control rod exercise was performed and hydrogen injection testing was successfully completed.

On the sixteenth, a slight power reduction was made to perform a condenser backwash. Also on the sixteenth, the "B" Emergency Diesel Generator was declared inoperable when the pre-lube pump tripped and would not restart. This, combined with the discovery of several potentially degraded pipe hangers in the HPCI, RCIC, and RHR systems, resulted in the commencement of a shutdown and the declaration of an Unusual Event at 2219 hrs. At 0017 hours on the seventeenth, the "B" Diesel lube oil pump trouble shooting was completed, the Diesel declared operable, and the shutdown and Unusual Event were secured. The hanger discrepancies were also resolved on the seventeenth and the unit was returned to full power.

On the eighteenth, the HPCI system was declared inoperable (Ref.: LER 85-012) when a turbine exhaust line snubber was found broken after the start of a HPCI surveillance test. Power level was maintained between 98% and 100% until the twenty-sixth. During that time frame, the "B" Diesel was declared inoperable on the twenty-third when the pre-lube pump again tripped and would not restart. This, combined with an inoperable HPCI system, resulted in the initiation of a shutdown and the declaration of an Unusual Event. The pre-lube pump/motor unit was replaced and the "B" Diesel was returned to service on the same day. At that time, the shutdown and Unusual Event were secured. The HPCI system was declared operable on the twenty-fourth.

On the twenty-sixth, power was reduced to perform a condenser backwash and to investigate a suspected turbine control valve oil leak in the condenser compartment. Power was increased on the twenty-seventh and maintained between 96% and 100% until the end of the month. During that time frame, the HPCI system was declared inoperable on the twenty-ninth when the system isolated as the result of a HPCI steam line flow differential pressure switch failure (Ref.: LER 85-013 to be issued). The HPCI system was returned to service on the twenty-ninth.

Safety Relief Valve Challenges
Month of May 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	June 13, 1985
COMPLETED BY	P. Hamilton
TELEPHONE	(617) 746-7900

REPORT MONTH May 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
13	5/4/85	F	0.0	B	5	N/A	ZZ	ZZ	Reduced power to clean condenser waterboxes and backwash.

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 May 1985

PILGRIM NUCLEAR POWER STATION

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
Closed Cooling Water	MOV-4060B	Noisy	Worn Motor Pinion Gear & Shaft Gear	Installed new gears.	Routine Maintenance	N/R
Diesel Generator	"B" Diesel Pre-Lube Oil Pump & Motor	Would not pump oil.	Broken Teeth on Pump Gear	Installed new pump and motor.	Routine Maintenance	N/R
RHR	MOV-1001-37	Would not open from Control Switch.	Valve was in mid-position.	Manually closed valve & adjusted Limit Switch so valve would complete cycle.	Routine Maintenance	N/R
RHR	MOV-1001-34A	Would not operate.	Motor Windings Shorted	Installed new motor and new heaters.	Routine Maintenance	N/R
RHR	RHR Flow Indicator	Indicator Reading Upscale	Instrument Drift	Recalibrated; returned to normal.	Routine Maintenance	N/R
Main Steam	1705-2A & 2C Main Steam Line Radiation Monitors	Low Calibration & Recorder	Minor Set Point Drift	Recalibrated drawer & recorder.	Routine Maintenance	N/R
Salt Service Water	"C" SSW Pump	Reduced Pump Head	Impeller & Wearing Ring Wear	Overhauled pump.	Routine Maintenance	N/R

Month May 1985

PILGRIM NUCLEAR POWER STATION

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
HVAC Secondary Contain. Isolation	Damper AON 81	Cracked Gear	Aging Gear	Replaced gear.	Routine Maintenance (New Design Dampers on Order)	N/R
HVAC Secondary Contain. Isolation	Damper AON 83	Gears Unmeshed & Cracked	Adjustment Aging Gear	Re-Adjustment Replaced gear.	Routine Maintenance (New Design Dampers on Order)	N/R
HPCI	DPIS 2353	Isolated HPCI System	None Found	Replaced internal parts of switch.	Routine Maintenance	LER 85-013 (To be issued.)
HPCI	HPCI Snubber A-8661	Broken Snubber Extension	Anomalous Event (Water-Hammer)	Rebuild snubber & redesigned installation.	Routine Maintenance	LER 85-012 (To be issued.)

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

June 13, 1985
BECo Ltr. #85-106

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: May 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,

J E Howard for

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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