BOSTON EDISON
Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360

R. A. Anderson
Vice President &
Station Director
Nuclear Operations

March 12, 1991
BECo Ltr. #91-33

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

License No. DPR-35
Docket No. 50-293

Subject: February 1991 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. Should you have any questions concerning this report please contact me directly.

R.A. Anderson

WJM/bal

Attachment

cc: Regional Administrator, Region 1
U.S. Nuclear Regulatory Commission
475 Allendale Rd.
King of Prussia, PA 19406

Senior Resident Inspector

IE24
1/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
UNIT Pilgrim 1
DATE March 12, 1991
COMPLETED BY W. Munro
TELEPHONE (508) 747-8474

MONTH February 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	665	17	532
2	663	18	553
3	665	19	556
4	665	20	552
5	664	21	654
6	625	22	665
7	435	23	664
8	494	24	665
9	551	25	665
10	552	26	666
11	552	27	664
12	552	28	665
13	553	29	N/A
14	557	30	N/A
15	559	31	N/A
16	422		

This format lists the average daily unit power level in MWe-Net for each day in the reporting month, computed to the nearest whole megawatt.

OPERATING DATA REPORT

DOCKET NO. 50-293
DATE March 12, 1991
COMPLETED BY W. Munro
TELEPHONE (508) 747-8474

OPERATING STATUS

Notes

1. Unit Name Pilgrim 1
2. Reporting Period February 1991
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) 696
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	672.0	1416.0	159744.0
12. Number Of Hours Reactor Was Critical	672.0	1416.0	94016.7
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	672.0	6.0	90332.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated(MWH)	1210752.0	2647768.0	17977917.0
17. Gross Electrical Energy Generated(MWH)	415390.0	909230.0	52556744.0
18. Net Electrical Energy Generated (MWH)	400155.0	875582.0	50501990.0
19. Unit Service Factor	100.0	100.0	56.5
20. Unit Availability Factor	100.0	100.0	56.5
21. Unit Capacity Factor (Using MDC Net)	88.9	92.3	47.2
22. Unit Capacity Factor (Using DER Net)	90.9	94.4	48.3
23. Unit Forced Outage Rate	0.0	0.0	12.6

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling Outage No. 8, May 1991, approximately 70 days

25. If Shut Down At End Of Report Period, Estimated Date of Startup N/A

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

Operational Summary for February 1991

The unit started the reporting period at 100 percent power. On February 4, 1991 a metal shroud was removed from the "B" reactor feed pump, to investigate the source of leaking water, and a pin hole leak was discovered in the casing. On February 6, 1991 power was reduced to 70 percent and the "B" reactor feed pump was removed from service to further investigate the casing leak. Following removal of the pump from service, power was then returned to 80 percent using recirculation flow. On February 7, 1991 the "A" recirculation pump was removed from service and power was reduced to 52 percent when it was discovered that the "A" recirculation pump MG set exciter brushes were worn and arcing. On February 8, 1991 following installation of a temporary modification which added an additional brush holder onto the MG set exciter, the "A" recirculation pump was restarted. By February 9, 1991 power was increased to 84 percent and remained at that level, with the "B" reactor feed pump out of service due to the casing leak, until February 16, 1991. On February 16, 1991 power was reduced to 50 percent to perform a backwash of the main condenser. Upon completion of the backwash, power was increased to 85 percent and remained at that level until February 20, 1991 when power was reduced to 70% percent to restore "B" reactor feed pump to service following repair to the pump casing. On February 20, 1991 a power increase was initiated and power level reached 100 percent by 0805 hours on February 21, 1991 and remained there for the remainder of the reporting period. Control rod exercising was performed on February 2, 9, 16 and 23.

Safety Relief Valve Challenges
Month of February 1991

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

There were no safety relief valve challenges during this reporting period.

An SRV challenge is defined as anytime an SRV has received a signal to operate via reactor pressure, auto signal (ADS) or control switch (manual). Ref. BECo ltr. #81-01 dated 01/05/81.

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: Second Quarter 1991

3. Scheduled date for restart following refueling: Third Quarter 1991

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

5. See #6.

6. The new fuel loaded during the 1986/87 refueling outage was of the same design as loaded in the previous outage, and consisted of 192 assemblies.

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

   (b) There are 1320 fuel assemblies in the spent fuel pool.

8. (a) The station is presently licensed to store 2320 spent fuel assemblies. The actual usable spent fuel storage capacity is 2320 fuel assemblies.

   (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 1000 fuel assemblies.

Month February 1991

PILGRIM NUCLEAR POWER STATION

MAJOR SAFETY RELATED MAINTENANCE

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
Feed-water System	"B" Reactor Feed-water Pump (RFP) P-103B*	Crack in upper half of P-103B casing. (F&MR 91-47)	Root cause under investigation.	Temporary Modification TM 91-14 implemented to restore casing integrity using mechanical metal stitch repair process by Metalock Corp.	N/A	N/A
Recirc-ulation System	"A" Recirculation Motor Generator Set.*	Exciter brushes worn and arcing due to worn and pitted collector ring. (F&MR 91-48)	Root cause to be determined.	Incorporated Temporary Modification TM 91-12 to add a second set of brushes on the outboard collector ring.	Collector rings scheduled for repair or replacement during RFO-8.	N/A

* NOTE
Items are not safety related, however caused major reduction in power.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293
NAME Pilgrim 1
DATE March 12, 1991
COMPLETED BY W. Munro
TELEPHONE (508) 747-8474

REPORT MONTH February 1991

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
2	02/07/91	F	0.0	N/A	5	N/A	N/A	N/A	Power reduced to investigate "B" RFP sealing leak, and add additional brush on "A" Recirc. MG set. (TM91-12)
3	02/16/91	S	0.0	N/A	5	N/A	N/A	N/A	Power reduced to perform main condenser backwash.

1 — F-Forced, S-Sched

2 — A-Equip Failure; B-Maint or Test; C-Refueling; D-Regulatory Restriction; E-Operator Training & License Examination; F-Admin; G-Oper Error; H-Other

3 — 1-Manual; 2-Manual Scram; 3-Auto Scram; 4-Continued; 5-Reduced Load; 9-Other

4&5 — Exhibit F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-1022)