



BOSTON EDISON

Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360

January 10, 1992
BECO Ltr. #92- 001

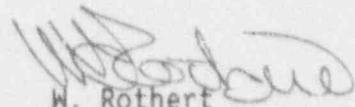
U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

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

Subject: December 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.


W. Rothert
Acting V.P. Nuclear
Operations & Station
Director

WJM/bal

Attachment

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

Mr. R. B. Eaton
Div. of Reactor Projects I/II
Office of NRR - USNRC
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Rockville, MD 20852

Senior Resident Inspector

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OPERATING DATA REPORT

DOCKET NO. 50-293
 DATE January 10, 1992
 COMPLETED BY W. Munro
 TELEPHONE (508) 747-8474

OPERATING STATUS

Notes

1. Unit Name Pilgrim I
2. Reporting Period December 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	744.0	8760.0	167088.0
12. Number Of Hours Reactor Was Critical	744.0	5759.9	98360.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	5566.8	94502.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated(MWH)	1464384.0	10362984.0	163704480.0
17. Gross Electrical Energy Generated(MWH)	507880.0	3558900.0	55206414.0
18. Net Electrical Energy Generated (MWH)	489138.0	3424540.0	53050948.0
19. Unit Service Factor	100.0	63.8	56.6
20. Unit Availability Factor	100.0	63.8	56.6
21. Unit Capacity Factor (Using MDC Net)	98.1	58.4	47.4
22. Unit Capacity Factor (Using DER Net)	100.4	59.7	48.5
23. Unit Forced Outage Rate	0.0	10.5	12.6
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>None</u>		

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
 UNIT Pilgrim 1
 DATE January 10, 1992
 COMPLETED BY W. Munro
 TELEPHONE (508) 747-8474

MONTH December 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>668</u>	17	<u>669</u>
2	<u>667</u>	18	<u>669</u>
3	<u>669</u>	19	<u>669</u>
4	<u>668</u>	20	<u>670</u>
5	<u>629</u>	21	<u>668</u>
6	<u>561</u>	22	<u>670</u>
7	<u>665</u>	23	<u>659</u>
8	<u>668</u>	24	<u>668</u>
9	<u>667</u>	25	<u>668</u>
10	<u>666</u>	26	<u>668</u>
11	<u>666</u>	27	<u>668</u>
12	<u>668</u>	28	<u>667</u>
13	<u>666</u>	29	<u>667</u>
14	<u>667</u>	30	<u>541</u>
15	<u>667</u>	31	<u>621</u>
16	<u>667</u>		

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.

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

Operational Summary for December 1991

The unit started the reporting period at approximately 100 percent core thermal power (CTP) and maintained that level until December 5. At 2048 hours on December 5 a power reduction to approximately 40 percent CTP commenced to facilitate replacement of generator brushes on the "B" Recirculation Motor Generator Set. Following repairs on December 6, power was increased to 100 percent CTP by 1300 hours. Power remained at that level until December 30 when it was reduced to approximately 63 percent CTP to maintain main condenser vacuum which had degraded due to macrofouling resulting from an ocean storm. The unit was returned to 100 percent CTP and was immediately reduced to 50 percent CTP to perform a main condenser backwash. On December 31 at approximately 0900 hours the unit returned to 100 percent CTP and was maintained at that level for the remainder of the reporting period. Minor power reductions were initiated on December 7, 13, 21 and 28 to perform weekly control rod exercises.

Safety Relief Valve Challenges
Month of December 1991

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

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

Reason: Manual opening of SRV 203-3D momentarily per surveillance Procedure 8.5.6.2 to check operability of the recently replaced valve.

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: April 3, 1993
3. Scheduled date for restart following next refueling: June 8, 1993
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 1991 refueling outage was of the same design as loaded in the previous outage and consisted of 168 assemblies.
7. (a) There are 580 fuel assemblies in the core.
(b) There are 1489 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 831 fuel assemblies.

PILGRIM NUCLEAR POWER STATION
MAJOR SAFETY RELATED MAINTENANCE

<u>SYSTEM</u>	<u>COMPONENT</u>	<u>MALFUNCTION</u>	<u>CAUSE</u>	<u>MAINTENANCE</u>	<u>CORRECTIVE ACTION TO PREVENT RECURRENCE</u>	<u>ASSOCIATED LER</u>
Salt Service Water (SSW) System	SSW Pump P-208D	High vibration and low discharge flow, while performing surveillance procedure 8.5.3.2. (F&MR 91-451)	Spider bearing degradation	Overhauled P-208D: Replaced motor guide bearings and thrust bearings. Repaired six (6) spider bearings, installed rebuilt bowl assembly, stuffing box bushing, one (1) new head shaft and three (3) new line shafts. Also, installed new twelve (12) inch expansion joint on discharge side of pump.	Engineering Service Request 91-742 initiated to evaluate and upgrade the line shaft bearings and suction bowl.	N/A
Recirculation System	"B" Recirculation Motor Generator "MG" Set*	Both brushes on generator end inner collector ring arcing and worn down to holder (F&MR 91-510)	Under investigation	"B" Recirculation pump taken out of service and both brushes were replaced.	To be determined	N/A

* Not safety related but required a significant power reduction to perform repairs.

PILGRIM NUCLEAR POWER STATION
MAJOR SAFETY RELATED MAINTENANCE

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Recirculation System	"B" Recirculation Motor Generator "MG" Set*	Both brushes on generator end inner collector ring arcing and worn down to holder (F&MR 91-510)	Under investigation	"B" Recirculation pump taken out of service and both brushes were replaced.	To be determined	N/A

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293

NAME Pilgrim 1DATE January 10, 1992COMPLETED BY W. MunroTELEPHONE (508) 747-8474REPORT MONTH December 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
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No shutdowns or power reductions occurred during this reporting period.

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)