



**Boston Edison**

Pilgrim Nuclear Power Station  
Rocky Hill Road  
Plymouth, Massachusetts 02360-5599

June 13, 1997  
BECO Ltr. 2.97.061

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

Docket No. 50.293  
License No. DPR-35

**May 1997 Monthly Report**

In accordance with Pilgrim Nuclear Power Station Technical Specification 6.9.A.2, a copy of the Operational Status Summary for Pilgrim Nuclear Power Station is provided in Attachment #1 for your information and planning. Should you have any questions concerning this report, please contact me directly.

In addition, Attachment #2 is the third and final in a series of reports on the progress of establishing a replacement location for the South Weymouth Naval Air Station (SWNAS) Reception Center.

N. L. Desmond  
Regulatory Relations Group Manager

RLC/dmc/radmisc/597-mrpt

Attachments: #1 May 1997 Monthly Report

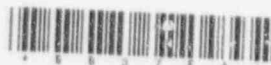
#2 Progress report on the South Weymouth Naval Air Station Reception Center.

cc: Mr. Hubert Miller  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Mr. John Lusher  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Senior Resident Inspector  
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OPERATING DATA REPORT

DOCKET NO. 50-293  
 NAME: Pilgrim  
 COMPLETED BY: R.L. Cannon  
 TELEPHONE: (508) 830-8321  
 REPORT MONTH: May 1997

OPERATING STATUSNOTES

1. Unit Name Pilgrim I
2. Reporting Period May 1997
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 (Item Numbers 3 through 7) Since Last Report, Give Reasons:  
No Changes
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	214559.0
12. Hours Reactor Critical	744.0	2211.7	136858.6
13. Hours Reactor Reserve Shutdown	0.0	0.0	0.0
14. Hours Generator On-Line	744.0	2058.2	132228.0
15. Hours Unit Reserve Shutdown	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1467261.0	3822518.0	236298448.0
17. Gross Electrical Energy Generated (MWH)	504900.0	1291360.0	80098974.0
18. Net Electrical Energy Generated (MWH)	485768.0	1239555.0	77007518.0
19. Unit Service Factor	100.0	56.8	61.6
20. Unit Availability Factor	100.0	56.8	61.6
21. Unit Capacity Factor (Using MDC Net)	97.4	51.1	53.6
22. Unit Capacity Factor (Using DER Net)	99.7	52.2	54.8
23. Unit Forced Outage Rate	0.0	21.0	11.7
24. Shutdowns, Scheduled Over Next 6 Months (Type, Date, and Duration of Each)	None		
25. If Shutdown At End Of Report Period, Estimate Date Of Start-Up	Unit Operating		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293  
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COMPLETED BY: R.L. Cannon  
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REPORT MONTH: May 1997

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL</u> <u>(MWe-Net)</u>
1	662
2	662
3	658
4	662
5	661
6	662
7	663
8	663
9	663
10	660
11	663
12	662
13	663
14	663
15	663

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL</u> <u>(MWe-Net)</u>
16	663
17	653
18	661
19	659
20	660
21	659
22	660
23	658
24	635
25	428
26	663
27	662
28	663
29	663
30	663
31	659

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.

## OPERATION SUMMARY

DOCKET NO.	<u>50-293</u>
NAME:	<u>Pilgrim</u>
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TELEPHONE:	<u>(508) 830-8321</u>
REPORT MONTH:	<u>May 1997</u>

The unit started the period at 100 percent core thermal power (CTP) where it was maintained until May 24, 1997, at 2130 hours, when reactor power was reduced for operator training and to perform a scheduled backwash of the main condenser. At approximately 2300 hours on May 24, 1997, approximately 50 percent CTP was reached. Following backwash of the main condenser, on May 25, 1997, at 2310 hours the plant attained 100 percent CTP where it was maintained for the remainder of the reporting period.

## SAFETY RELIEF VALVE CHALLENGES

### MONTH OF MAY 1997

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

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

An SRV challenge is defined as anytime an SRV has received a signal to operate via reactor pressure signal (ADS) or control switch (manual). Reference BECo Ltr. #81-01 dated January 5, 1981.

## REFUELING INFORMATION

DOCKET NO.	<u>50-293</u>
NAME:	<u>Pilgrim</u>
COMPLETED BY:	<u>R.L. Cannon</u>
TELEPHONE:	<u>(508) 830-8321</u>
REPORT MONTH:	<u>May 1997</u>

The following refueling information is included in the Monthly Report as requested in 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: March 20, 1999.
3. Scheduled date for restart following next refueling outage: April 24, 1999.
4. Due to similarity, requests 4, 5, and 6 are responded to collectively under #6.
5. See #6.
6. The new fuel loaded during the 1997 refueling outage (RFO #11) is of the same design loaded in the previous refueling outage and consists of 208 new fuel assemblies.
7.
  - (a) There are 580 fuel assemblies in the core.
  - (b) There are 1974 fuel assemblies in the spent fuel pool.
8.
  - (a) The station is presently licensed to store 3859 spent fuel assemblies. The spent fuel storage capacity is 2891 fuel assemblies. However, 23 spent fuel locations cannot be used due to refuel bridge limitations.
  - (b) The planned spent fuel pool storage capacity is 3859 fuel assemblies.
9. With present spent fuel in storage, the spent fuel pool now has the capacity to accommodate an additional 894 fuel assemblies.

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-293  
 NAME: Pilgrim  
 COMPLETED BY: R.L. Cannon  
 TELEPHONE: (508) 830-8321  
 REPORT MONTH: May 1997

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
4	970525	S	0.0	B	N/A	N/A	N/A	N/A	Reactor power was reduced from 100 percent CTP to approximately 50 percent CTP to perform training and a backwash of the main condenser.

1

F - Forced  
S - Scheduled

2

A - Equip Failure  
 B - Main or Test  
 C - Refueling  
 D - Regulatory Restriction  
 E - Operator Training &  
 License Examination  
 F - Admin  
 G - Operation 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 Preparations of  
 Data Entry Sheet Licensee Event Report (LER)  
 File (NUREG-1022)

PILGRIM NUCLEAR POWER STATION MAJOR SAFETY-RELATED MAINTENANCE

DOCKET NO. 50-293  
NAME: Pilgrim  
COMPLETED BY: R.L. Cannon  
TELEPHONE: (508) 830-8321  
REPORT MONTH: May 1997

ITEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER

No significant safety related corrective maintenance was completed during this reporting period.

## **ATTACHMENT 2**

### **BOSTON EDISON SOUTH WEYMOUTH RECEPTION CENTER RELOCATION PROGRESS STATUS REPORT NO. 3 June 13, 1997**

#### **INTRODUCTION**

This is the last in a series of reports on the progress of establishing a replacement for the South Weymouth Naval Air Station (SWNAS) reception center. These status reports have been submitted on a monthly basis pending opening a new reception center. The new reception center became fully operational on May 27, 1997.

The efforts described herein are those of Boston Edison Company in support of the Massachusetts Emergency Management Agency (MEMA). MEMA has overall responsibility for radiological emergency response planning in the Commonwealth of Massachusetts. Any views or opinions expressed within are those of Boston Edison and do not necessarily represent the views of MEMA or other state and local agencies.

#### **BACKGROUND**

The South Weymouth Naval Air Station in South Weymouth, Massachusetts, functioned as one of the three reception centers for evacuees from a potential emergency at the Pilgrim Nuclear Power Station. Boston Edison and the Commonwealth hold a letter of agreement with SWNAS for use of the facility in support of MEMA's Radiological Response Plan.

In 1995, SWNAS was listed by the federal government as slated for closing. On February 6, 1997, a letter from SWNAS notified Boston Edison that the base was closing and requested that all reception center equipment be removed by June 1, 1997. A February 25, 1997, meeting between MEMA, Boston Edison, and SWNAS confirmed the closing dates, the base mothballing process, and the firmness of the June 1, 1997, date for equipment removal.

FEMA expressed concern over the impending loss of the facility. Sharing FEMA's concern that a replacement reception center be identified, the NRC requested Boston Edison to provide monthly updates until the new reception center is functional.

Since the last report, MEMA, Boston Edison and the town of Braintree have officially established Braintree High School and the existing town emergency management offices as a replacement for the SWNAS site.

#### **PLANS/PROCEDURES**

- Boston Edison and MEMA have finalized revisions to the current offsite plans and procedures. "DRAFT" procedures were utilized for the training described below.



## STAFFING

- Staffing levels for the new reception center remain more than adequate. The staff from Braintree, Quincy, and Weymouth Emergency Management remains essentially intact from SWNAS, and additional emergency workers were recruited to replace U.S. Naval personnel. A total of approximately 150 emergency workers have attended training for the 78 reception center positions.

## TRAINING

- The first classroom training session was held at the Braintree EOC on May 8, 1997, for approximately 60 people. Additional sessions were held on May 15 and May 19, 1997. A command center practical drill was conducted on May 21, 1997 and a reception center practical drill was conducted on May 29, 1997.
- A FEMA observed drill and demonstration of the reception center and command center was conducted on May 31, 1997.

## FACILITY/EQUIPMENT

- Renovations have been completed at the Braintree Emergency Management Agency offices to accommodate the additional function of Reception Center Command Center.
- Installation of telephone lines, data lines, and antenna mounting hardware have been completed at the Braintree Emergency Management offices and at the Braintree High School gymnasium.
- The Command Center equipment and Reception Center equipment was moved from SWNAS to Braintree on May 21 and 27, 1997, respectively.

## OFFSITE PROGRAM SUPPORT ACTIVITIES

- Boston Edison and contractor personnel assisted MEMA with implementation of this project including:
  - Facility/equipment design
  - Construction interface
  - Revising offsite emergency preparedness program documents to reflect the new reception center location, layout and operations.
  - Maintenance of emergency worker staff
  - Training coordination and conduct
  - Government/agency interface
- Boston Edison has coordinated a public information campaign including newspaper ads, press releases, radio, and TV spots to notify the public of the reception center move.

- Revisions to the Traffic Management Plan and evacuation routes were completed by a Boston Edison contractor.

### Schedule

The Braintree Command Center was officially established on May 21, 1997, after equipment was moved from SWNAS and installed at the Braintree Town EOC.

The Braintree Reception Center was officially established on May 27, 1997, after equipment was moved from SWNAS and installed at Braintree High School.

MEMA announced through news releases and memoranda (see attached) the official relocation from SWNAS to Braintree on May 27, 1997.

FEMA approved the relocation of the Northern Reception Center for PNPS from South Weymouth Naval Air Station to the town of Braintree (EOC and High School) after observing the reception center demonstration on May 31, 1997.

offsite/rc/rcrplmnt.doc



THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE DEPARTMENT

MASSACHUSETTS EMERGENCY MANAGEMENT AGENCY



WILLIAM F. WELD  
GOVERNOR

PETER G. LaPORTE  
DIRECTOR

M E M O R A N D U M

TO: Area II RERP Community Emergency Management Directors  
FROM: Peter G. LaPorte, Director  
DATE: May 27, 1997  
SUBJECT: ACTIVATION OF BRAINTREE RECEPTION CENTER

Effective this date, the Reception Center in the Town of Braintree at Braintree High School is fully operational.

The South Weymouth Reception Center at South Weymouth Reception Center at South Weymouth Naval Air Station is now officially closed as of 5:00 p.m. today.

All operations formerly associated with the South Weymouth Reception Center for the Pilgrim Nuclear Power Plant have been transferred to the Braintree High School Reception Center.

PGL/s

CC: FEMA  
Boston Edison Company



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**News Release**

May 27, 1997

**BRAINTREE HIGH SCHOOL TO SERVE AS RECEPTION CENTER**

Peter G. LaPorte, Director of the Massachusetts Emergency-Management Agency, has announced the opening of a new reception center in Braintree to serve evacuees in the event of a serious emergency at the Pilgrim Nuclear Power Station. The new reception center is located at the Braintree High School at 128 Town Street. This site replaces the South Weymouth Reception Center, which is closing today.

Braintree High School Reception Center would provide the full range of services previously available at the South Weymouth Naval Air Station in the event of a serious emergency at Pilgrim Station requiring the evacuation of persons in the following areas:

- All of Duxbury, including Duxbury Beach
- Marshfield south of Route 139/Careswell Street and Dike Road
- Saquish Neck, Gurnet Point, and Clark's Island in Plymouth

The center would arrange for evacuees to obtain meals and overnight accommodations at mass care shelters in the area. Staff would help in locating other family members who had also evacuated, and crisis counseling would be available. If needed, radiological monitoring of persons and vehicles would also be provided.

The Braintree Reception Center is part of the off-site emergency plan supporting the Pilgrim Nuclear Power Station and is a joint effort of the Massachusetts Emergency Management Agency, the towns of Braintree and Weymouth, the City of Quincy, and Boston Edison. "This reception center is the result of a true partnership of communities working to help their neighbors," says Director LaPorte.

For more information, please contact Thomas Rodger at 508- 697-3111.

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