



Boston Edison

Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360

E. T. Boulette, PhD
Senior Vice President — Nuclear

April 14, 1997
BECo Ltr. 2.97.043

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

Docket No. 50.293
License No. DPR-35

March 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 first in a series of reports on the progress of establishing a replacement location for the South Weymouth Naval Air Station (SWNAS) Reception Center. These reports will be submitted on a monthly basis until the new reception center is functional.


J.J. Olivier

RLC/dmc/297-mrpt
Attachments

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

Mr. John Lusher
U.S. Nuclear Regulatory Commission
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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: March 1997

OPERATING STATUSNOTES

1. Unit Name Pilgrim I
2. Reporting Period March 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	2160.0	213096.0
12. Hours Reactor Critical	0.0	1080.6	135727.5
13. Hours Reactor Reserve Shutdown	0.0	0.0	0.0
14. Hours Generator On-Line	0.0	1080.6	131250.4
15. Hours Unit Reserve Shutdown	0.0	0.0	0.0
16. Hours Thermal Energy Generated (MWH)	0.0	2033452.0	234509382.0
17. Gross Electrical Energy Generated (MWH)	0.0	678770.0	79486384.0
18. Net Electrical Energy Generated (MWH)	0.0	650589.0	76418552.0
19. Unit Service Factor	0.0	50.0	61.6
20. Unit Availability Factor	0.0	50.0	61.6
21. Unit Capacity Factor (Using MDC Net)	0.0	45.0	53.5
22. Unit Capacity Factor (Using DER Net)	0.0	46.0	54.7
23. Unit Forced Outage Rate	100.0	5.7	11.4
24. Shutdowns, Scheduled Over Next 6 Months (Type, Date, and Duration of Each)	Currently in a forced outage to replace the failed main transformer		
25. If Shutdown At End Of Report Period, Estimate Date Of Start-Up	4/12/97		

AVERAGE DAILY UNIT POWER LEVEL

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<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL</u> <u>(MWe-Net)</u>
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0

<u>DAY</u>	<u>AVERAGE DAILY POWER LEVEL</u> <u>(MWe-Net)</u>
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0

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

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REPORT MONTH:	<u>March 1997</u>

The plant entered the period with refueling outage #11 in progress. On March 7, 1997, at approximately 1450 hours the main transformer experienced an internal fault that isolated the transformer which had been supplying off-site power to the plant during the refueling outage. On loss of the main transformer, the plant responded as designed. The "B" emergency diesel generator started automatically to supply power to the "B" Loop emergency core cooling systems (ECCS). The shutdown transformer was aligned to the "A" ECCS.

The startup transformer was out of service for maintenance at the time the main transformer failed. At approximately 0113 hours on March 8, 1997, the startup transformer was returned to service and the plant was placed in a normal electrical lineup for the refueling outage with the main transformer isolated from the system. At approximately 0320 hours on March 8, 1997, the "B" emergency diesel generator was secured and returned to a standby status. The reporting period ended with the plant in a forced outage to replace the Main Transformer.

SAFETY RELIEF VALVE CHALLENGES

MONTH OF MARCH 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>
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REPORT MONTH:	<u>March 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 refueling shutdown: RFO #11 was completed at approximately 0700 on March 29, 1997
3. Scheduled date for restart: April 12, 1997.
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

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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
1	3/1/97	S	679	C	4	97-003-00	N/A	N/A	Continuation of Refueling Outage #11
2	3/7/97	F	65	A	4	97-004-00	EL	TRANSF	Cause of the main transformer failure has not yet been determined. New transformer being installed.

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)

FEBRUARY 1997

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REPORT MONTH: March 1997

PILGRIM NUCLEAR POWER STATION MAJOR SAFETY-RELATED MAINTENANCE

ITEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
1	Main Transformer	Main Transformer Failure	not yet determined	new transformer being installed	root cause of the main transformer failure has not yet been determined.	97-004-00

Performed Maintenance Activities in Accordance with RFO #11 Outage Schedule and forced outage Contingency Schedule

**BOSTON EDISON
SOUTH WEYMOUTH RECEPTION CENTER RELOCATION PROGRESS
STATUS REPORT NO. 1
APRIL 10, 1997**

INTRODUCTION

This is the first in a series of reports on the progress of establishing a replacement for the South Weymouth Naval Air Station (SWNAS) reception center. These reports will be submitted on a monthly basis until the new reception center is functional.

The attached schedules represent Boston Edison suggested timeframes to accomplish the required tasks. The timeframes are not intended to represent deadlines. These schedules were provided to the Massachusetts Emergency Management Agency (MEMA) for their review.

The efforts and schedules 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, has been functioning 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 subsequently expressed concern over the impending loss of the facility, and sharing FEMA's concern that a replacement reception center be identified, the NRC has requested a schedule of Boston Edison's progress to date and monthly updates until the new reception center is functional.

PLANS/PROCEDURES

- Boston Edison has reviewed current Offsite Emergency Preparedness Program documents to obtain a preliminary assessment of documents that will require revision.

STAFFING

- SWNAS Facility
 - As confirmed in an April 4, 1997, conversation with Braintree Emergency Management, the current staff consisting of volunteers from Weymouth, Braintree, and Quincy remains intact and will likely not change prior to June 1, 1997.
- Replacement Facility
 - Indications are from Braintree Emergency Management (via a 3/4/97 meeting) that the current staff would remain intact assuming the replacement facility was located reasonably close to the Braintree/Quincy/Weymouth area.

TRAINING

- SWNAS Facility
 - No training is currently scheduled for 1997.
- Replacement Facility
 - Boston Edison will support MEMA in the training of Reception Center personnel at the facility by committing the services of contractors and Boston Edison Emergency Preparedness personnel for training coordination and conduct.

FACILITY/EQUIPMENT

- SWNAS Facility
 - A complete inventory of the SWNAS Reception Center equipment was done in September 1996.
 - An inventory check was performed by SWNAS and Boston Edison personnel on March 26, 1997.
- Replacement Facility
 - Boston Edison and MEMA attended various meetings held with officials from two potential locations as described below. As discussed with MEMA, these locations will be referred to as Sites A and B located in Communities A and B, respectively.

Site A

Boston Edison and MEMA met with Site A Civil Defense Director on March 4, 1997, to discuss use of a facility as a reception center.

Boston Edison and MEMA met with Site A Civil Defense and the superintendent of schools on March 7, 1997, to discuss use of a school as a reception center.

Boston Edison and MEMA met with Site A Executive Secretary on March 10, 1997, to review functions of a reception center and to discuss use of a school as a reception center.

MEMA sent a letter to Site A Executive Secretary on March 13, 1997, requesting consideration of the use of Site A as a reception center. MEMA subsequently sent a letter on March 27, 1997, requesting the opportunity to make a presentation to town officials regarding the request.

Site A's Executive Secretary sent a letter to MEMA's Director on March 31, 1997, stating that the Board of Selectmen was receptive to MEMA's request to use Site A as a reception center and that MEMA should proceed to obtain school approval and arrangements with other Site A officials.

MEMA and Boston Edison will make a presentation to Site A public officials on April 15, 1997, to explain the functions of a reception center and answer concerns that the officials may have.

Site B

Boston Edison Manager Nuclear Information Division contacted a Site B senior official on or about March 6, 1997, to schedule a meeting to discuss potential use of a facility as a reception center.

Boston Edison met with the Site B official on March 11, 1997, to discuss potential use of a school as a reception center.

ACTIVITY COORDINATION

- Boston Edison initiated the process, in accordance with company guidelines, of revising the Nuclear Emergency Preparedness budget to support increased funding for the SWNAS replacement project.
- Boston Edison Group Manager, Regulatory Relations met with the MEMA Director regarding status of the reception center project on March 3, 1997.

OFFSITE PROGRAM SUPPORT ACTIVITIES

- Boston Edison and contractor personnel will assist MEMA with implementation of this project including:
 - Site location/evaluation
 - Facility/Equipment design
 - Construction interface
 - Revising Offsite Emergency Preparedness Program documents to reflect the new reception center location, layout and operations. Documents to be revised include:
 - Commonwealth, local and reception center plan/procedures (IP's)
 - Layout drawings and implementing procedure graphics
 - Lesson plans
 - Staffing lists
 - Equipment matrices
 - Telephone listings
 - Maintenance of emergency worker staff
 - Training coordination and conduct
 - Government/Agency interface
- Boston Edison has identified public information materials (placards, flyers, telephone book ads, and calendar) that will require revision.
- Boston Edison has identified miscellaneous Emergency Preparedness Program elements requiring review and/or revision including:
 - Transportation elements
 - Host school elements
 - Mass Care Shelter elements
- Boston Edison contacted their Evacuation Time Estimate contractor on February 26, 1997, regarding potential change to the ETE and evacuation routes upon identification of new facility location.

Schedule

Boston Edison is submitting a schedule indicating timeframes for assisting MEMA with the relocation. The schedule assumes the replacement must be implemented by June 1, 1997. However, in working with FEMA and MEMA, it was ascertained that some items on the schedule regarding auxiliary or lower priority tasks could be completed after that date.

On April 10, 1997, Boston Edison provided the attached schedule to MEMA that represents Boston Edison's suggested timeframes to accomplish the required tasks. The timeframes are not intended to represent deadlines but, rather, target dates/goals.



