

BOSTON EDISON

Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360

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BECo Ltr. 90-039

Ralph G. Bird
Senior Vice President — Nuclear
U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

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

Subject: Scheduling of Pilgrim Nuclear Power Station 1990 Emergency Preparedness Exercise

Dear Sir:

Boston Edison plans to conduct its annual exercise during the week of June 18, 1990. As defined in 10 CFR 50, Appendix E, Section IV.F.2, this year's exercise will be a "partial participation exercise" with limited participation by the Commonwealth of Massachusetts.

In keeping with Mr. Lazarus' letter of June 9, 1989, "Emergency Exercise Objective and Scenario Guidelines", two copies of the proposed scope and objectives are attached for your review. Also included for your review is the proposed meeting and briefing schedule for controllers and participants. These attachments are submitted in accordance with FEMA's Guidance Memorandum EX-3 dated February 26, 1988, which stipulates that the exercise objectives be submitted at least 90 days in advance of the exercise. The objectives include demonstration, where appropriate, of corrective actions taken in regard to problem areas which have been previously identified during NRC inspections, emergency exercises and drills.

If you have any questions or require additional information, please do not hesitate to contact Mr. Stephen Hook, Onsite Emergency Preparedness Section Manager, 59 Industrial Park Road, Plymouth, MA 02360. Mr. Hook's telephone number is (508) 747-9463.

R. G. Bird
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Enclosures

1. Proposed Scope and Objectives
2. Proposed Meeting and Briefing Schedule

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PROPOSED SCOPE AND OBJECTIVES

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
ANNUAL EXERCISE
90-04-B

2.0 SCOPE AND OBJECTIVES

2.1 EXERCISE SCOPE

- The 1990 Pilgrim Nuclear Power Station (PNPS) Emergency Preparedness Exercise, to be conducted on June 21, 1990 will test and provide the opportunity to evaluate the Boston Edison Emergency Plan and Emergency Plan Implementing Procedures. It will also test the emergency response organization's ability to assess, classify and respond to emergency conditions and take appropriate actions to protect the health and safety of the public. In most cases, participants in this exercise vary from those who participated in October 1989. The exercise will involve activation of the Boston Edison Corporate Radiological Emergency Plan (CREP).
- The scenario will simulate a sequence of events resulting in a radiological accident. The scenario has been developed to provide a more realistic sequence of events allowing for maximum "free play" and decision making on the part of the PNPS Emergency Response Organization (ERO).
- The Exercise will limit the events that test the effectiveness of the integrated capabilities of Boston Edison's Emergency Response Organization with the Commonwealth and local governments to protective action decision making related to emergency action levels and communication capabilities.
- The exercise will also incorporate the Station's semi-annual health physics drill.

2.2 ONSITE OBJECTIVES

A. Exercise Planning

1. Conduct an exercise of the Pilgrim Nuclear Power Station Emergency Plan. (EP-AD-200, A.1).
2. Provide an opportunity for the Commonwealth of Massachusetts, and the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, Bridgewater, and the City of Taunton to partially participate in an exercise. (EP-AD-200, A.2).
3. Prepare an exercise information package to include:
 - a. The objectives of the exercise and appropriate evaluation criteria.
 - b. The date, time period, place and a list of participating organizations.

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A. Exercise Planning (Cont.)

- c. The sequence of simulated events.
- d. The time schedule of real and simulated initiating events.
- e. The narrative summary (EP-AD-200, A.3).
4. Conduct a critique of the exercise (EP-AD-200, A.4).
5. Write the exercise report (EP-AD-200, A.4).
6. Identify Open items (EP-AD-200, A.5).

B. Emergency Organizations, Support and Resources

1. Demonstrate the prompt activation, adequacy of the staffing and activation, as appropriate, of emergency response facilities as follows: (EP-AD-200, B.1)
 - Control Room
 - Technical Support Center (TSC)
 - Operations Support Center (OSC)
 - Emergency Operations Facility (EOF)
 - Technical Assessment Group (TAG)
 - Corporate Information Center (CIC)
 - Media Center (MC)
 - Corporate Support Center (CSC)
 - Personnel Processing Center (PPC)
2. Demonstrate the capability of the PNPS Emergency Response Organization to implement their Emergency Plan Implementing Procedures (EP-AD-200, B.2).
3. Demonstrate the ability of the Emergency Director to provide overall direction, including "command and control" by initiating, coordinating and implementing timely and effective decisions during a radiological emergency (EP-AD-200, B.3).
4. Demonstrate the ability to effectively transfer command and control of emergency response functions from the Control Room to the EOF (EP-AD-200, B.4).
5. Demonstrate the ability to control access to emergency response facilities (EP-AD-200, B.7).

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- B. Emergency Organizations, Support and Resources (Cont.)
6. Demonstrate adequacy of facilities and equipment to support emergency operations (EP-AD-200, B.9).
 7. Demonstrate the ability of corporate personnel to augment and support the plant staff (EP-AD-200, B.12).
 8. Demonstrate the ability to notify on-call emergency response personnel and document acceptable response times (EP-AD-200, B.13).
- C. Incident Assessment and Classification
1. Demonstrate the availability of methods, equipment, and expertise to make rapid assessments of the consequences of any radiological hazards, including the dispatch and coordination of Radiation Monitoring Teams (EP-AD-200, C.1).
 2. Demonstrate the ability to recognize emergency action levels (EALs) and properly classify actual or potential emergencies in accordance with the PNPS Emergency Plan Implementing Procedure EP-IP-100 (EP-AD-200, C.2).
- D. Notification and Communications
1. Demonstrate the ability to develop and notify offsite emergency organizations within 15 minutes of each emergency classification at PNPS (EP-AD-200, D.1).
 2. Demonstrate the ability to notify the NRC of any emergency classification within one hour of the declaration (EP-AD-200, D.2).
 3. Demonstrate the ability to notify PNPS Emergency Response Organization personnel (EP-AD-200, D.3).
 4. Demonstrate the ability to develop and send timely information messages for offsite authorities (EP-AD-200, D.4).
 5. Demonstrate the communications capability among the Control Room, TSC, OSC, EOF, TAG, CIC and Media Center (EP-AD-200, D.5).
 6. Demonstrate the availability of a back-up means of communication (EP-AD-200, D.7).

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D. Notification and Communications (Cont.)

7. Demonstrate the adequacy of communications capabilities between PNPS and the Radiation Monitoring Teams (EP-AD-200, D.8).
8. Demonstrate the operability of communication equipment between the PNPS Control Room, TSC, EOF and NRC Region I (Emergency Notification System) (EP-AD-200, D.10).

E. Radiological Consequence Assessment

1. Demonstrate methods and techniques for determining the source term of releases or potential releases of radioactive material (EP-AD-200, E.1).
2. Demonstrate the adequacy of methods and techniques for determining the magnitude of the releases of radioactive materials based on plant system parameters and effluent monitors (EP-AD-200, E.2).
3. Demonstrate the ability to estimate integrated dose from projected and actual dose rates and to compare these estimates with the Environmental Protection Agency (EPA) Protective Action Guides (PAGs) (EP-AD-200, E.3).
4. Demonstrate the ability to continuously monitor and control emergency worker radiation exposure, and implement exposure guidelines as appropriate (EP-AD-200, E.4).
5. Demonstrate the availability of respiratory protection, protective clothing and potassium iodide (KI) for onsite emergency response personnel (EP-AD-200, E.7).
6. Demonstrate the capability for onsite contamination control (EP-AD-200, E.9).
7. Demonstrate the capability for onsite and offsite radiological monitoring, to include collection, analysis, and preparation for shipment of sample media (e.g., water, vegetation, soil, snow and air) and provisions for communications and record keeping (EP-AD-200, E.13).

G. Public Information

1. Demonstrate the operations of the Media Center and the availability of space for the media (EP-AD-200, G.1).
2. Demonstrate the ability to brief the media in a clear, accurate and timely manner (EP-AD-200, G.2).

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G. Public Information (Cont.)

3. Demonstrate coordination of information prior to its release (EP-AD-200, G.3).
4. Demonstrate the ability to establish and operate rumor control in a coordinated fashion (EP-AD-200, G.4).

H. Recovery Operations

1. Demonstrate the availability of procedures to support reentry and recovery:
 - a. De-escalation/termination from the emergency phase, and transition to the recovery phase (EP-AD-200, H.1).
 - b. Inform the Commonwealth of the opportunity to reduce the need for protective actions (EP-AD-200, H.1).

I. Corporate Support Center

1. Demonstrate the ability to implement the Corporate Radiological Emergency Plan and Implementing Procedures.
2. Demonstrate the activation of the CSC.
3. Demonstrate the ability to convene the Emergency Operations Council.
4. Demonstrate communications between the CSC and EOF.
5. Demonstrate command and control of the Corporate Radiological Emergency Organization.
6. Demonstrate the Institute of Nuclear Power Operations (INPO) support interface.
7. Demonstrate the ability to control access to the BECO offices in the Prudential Center.

J. Personnel Processing Center

1. Demonstrate the ability to activate the PPC.
2. Demonstrate the ability to implement applicable procedures.
3. Demonstrate the ability to provide support as directed by the CSC Coordinator in support of the Pilgrim Nuclear Power Station.

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- J. Personnel Processing Center (Cont.)
4. Demonstrate the ability to control access to the PPC.
 5. Demonstrate the ability to maintain communications with the CSC.

PROPOSED 1990 MEETING AND BRIEFING SCHEDULE

• Controller Meeting

Date: Tuesday June 19, 1990
Time: 0900 - 1600 hours
Location: EOF Conference Room

• Player Meeting

Date: Wednesday June 20, 1990
Time: 1430 - 1600 hours
Location: PNPS Lunch Room

• NRC Briefing

Date: Wednesday June 20, 1990
Time: 1300 - 1500 hours
Location: EOF Conference Room

• Conduct Exercise

Date: Thursday June 21, 1990
Time: Unannounced
Location: All Onsite Emergency Response Facilities

• Player De-briefing

Date: Thursday June 21, 1990
Time: Immediately following Exercise
Location: All Onsite Emergency Response Facilities

• Lead Controller De-briefing

Date: Thursday June 21, 1990
Time: Immediately following player de-brief
Location: EOF

• Exercise Critique with NRC

Date: Friday June 22, 1990
Time: 1000 hours
Location: Chiltonville Training Center

• Exercise Critique (all players)

Date: Friday June 22, 1990
Time: To Be Determined
Location: PNPS Lunch Room