

**BOSTON EDISON**

Pilgrim Nuclear Power Station  
 Rocky Hill Road  
 Plymouth, Massachusetts 02360

George W. Davis  
 Senior Vice President — Nuclear

August 9, 1991  
 BECo Ltr 91-103

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

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

Subject: Scheduling of Pilgrim Nuclear Power Station 1991  
Emergency Preparedness Exercise

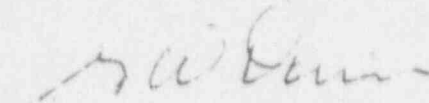
Dear Sir:

In accordance with the requirements of 10 CFR 50, Appendix E, Section IV.F.3, Boston Edison Company plans to conduct a full participation Emergency Preparedness Exercise with the Commonwealth of Massachusetts on December 12, 1991.

Two copies of the proposed scope and objectives for this exercise are attached for your review. The scope and objectives were developed utilizing the guidance provided in Mr. Lazarus' letter of June 9, 1989, "Emergency Exercise Objectives and Scenario Guidelines". Also included for your review is the proposed schedule for activities surrounding the exercise.

The objectives include demonstration, where appropriate, of corrective actions taken in regard to areas that warrant attention that have been previously identified during NRC inspections, emergency exercises and drills. The scope and objectives are submitted in accordance with FEMA's guidance memorandum EX-3, dated February 26, 1989.

If you have any questions or require additional information, please do not hesitate to contact Mr. Stephen Hook, Onsite Emergency Preparedness Section Manager, 118 Long Pond Road, Plymouth, MA 02360, or call (508) 747-9463.

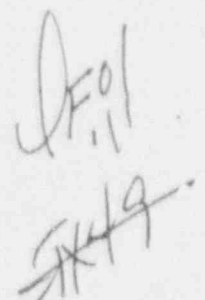
  
 G. W. Davis

RLC/bal  
 Attachments

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 JFO/11  
 JH/19

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

Mr. William Lazarus  
Chief, Emergency Preparedness Section, Region 1  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Mr. Craig Conklin  
Senior Emergency Preparedness Specialist, Region 1  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
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Senior Resident Inspector - Pilgrim Station

## 1991 EXERCISE EVENT SCHEDULE

- o Key Player Meeting  
Date: Thursday, December 5, 1991  
Time: 1700 - 1900 hours  
Location: Emergency Operations Facility (EOF)
- o CIC Player Briefing  
Date: Thursday, December 5, 1991  
Time: 1400 - 1500 hours  
Location: Prudential Center
- o Exercise Coordinators Meeting  
Date: Monday, December 9, 1991  
Time: 0900 - 1100 hours  
Location: EOF Conference Room
- o Controller Briefing  
Date: Tuesday, December 10, 1991  
Time: 0900 - 1600 hours  
Location: EOF Conference Room
- o Player Briefing  
Date: Wednesday, December 11, 1991  
Time: 0900 - 1100 hours  
Location: PNPS Lurich Room
- o NRC Entrance & Briefing  
Date: Wednesday, December 11, 1991  
Time: 1300 - 1500 hours  
Location: EOF Conference Room
- o Exercise Conduct  
Date: Thursday, December 12, 1991  
Time: Unannounced  
Location: Various Emergency Response Facilities
- o Player De-briefing  
Date: Thursday, December 12, 1991  
Time: Immediately following Exercise  
Location: Various Emergency Response Facilities
- o Lead Controller De-briefing  
Date: Thursday, December 12, 1991  
Time: Immediate following Exercise  
Location: EOF Conference Room

1991 EXERCISE EVENT SCHEDULE  
(Continued)

o Exercise Critique and Exit with NRC

Date: Friday, December 13, 1991  
Time: 0900 - 1100 hours  
Location: Chiltonville Training Center

o Exercise Critique (players)

Date: Friday, December 13, 1991  
Time: 1500 hours  
Location: PNPS Lunch Room

Date: Monday, December 16, 1991  
Time: To Be Determined (TBD)  
Location: TBD

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2.0 SCOPE AND OBJECTIVES

2.1 EXERCISE SCOPE

- The 1991 Pilgrim Nuclear Power Station (PNPS) Emergency Preparedness Exercise, to be conducted on December 12, 1991 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, identify, 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 June 21, 1990. The exercise will not involve activation of the Boston Edison Corporate Radiological Emergency Plan (CREP).
- The scenario will simulate a sequence of events resulting in a radiological release into the environment. This release will be of sufficient magnitude to warrant mobilization of the Commonwealth of Massachusetts and designated local governments in response to the emergency.
- 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, the City of Taunton and the Wellelsey Department of Public Works (DPW) 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
  - 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)



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A. Exercise Planning (Con't.)

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)

E. Emergency Organizations, Support and Resources

Demonstrate the prompt activation, adequacy of the staffing and resources, as appropriate, of emergency response facilities as follows:

- o Control Room (CR)
- o Technical Support Center (TSC)
- o Operations Support Center (OSC)
  - o Emergency Operations Facility (EOF)
  - o Technical Assessment Group (TAG)
  - o Corporate Information Center (CIC)
  - o Media Center (MC). (EP-AD-200, B.1)
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 Emergency Operations Facility (EOF). (EP-AD-200, B.4)
5. Demonstrate the capability of the PNPS Emergency Response Organization to interface with the Commonwealth of Massachusetts and the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, Bridgewater, the City of Taunton and the Wellesley DPW to effect a coordinated response to a radiological emergency adequate to ensure the protection of the health and safety of the public. (EP-AD-200, B.6)

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B. Emergency Organization, Support and Resources (Con't.)

6. Demonstrate the ability to control access to emergency facilities. (EP-AD-200, B.8)
7. Demonstrate the ability to provide a liaison at each participating offsite governmental Emergency Operations Center (EOC). (EP-AD-200, B.8)
8. Demonstrate, as appropriate, the ability to identify the need for, notify, and request assistance from federal agencies. (EP-AD-200, B.10)
9. 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 simulated emergencies in accordance with the PNPS Emergency Plan Implementing Procedure. (EP-AD-200, C.2)

D. Notification and Communications

1. Demonstrate the ability to 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 each 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)

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D. Notification and Communications (Con't.)

6. Demonstrate the communications capabilities between PNPS and the EOCs for the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, Bridgewater, the City of Taunton, the Wellesley DPW and the Commonwealth of Massachusetts EOC. (EP-AD 200, D.6)
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 (ENS). (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)

F. Protective Action

1. Demonstrate the ability to recommend protective actions to appropriate offsite authorities. (EP-AD-200, F.1)

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, G3)



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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.
  - b. Inform the Commonwealth of the opportunity to reduce the need for protective actions. (EP-AD-200, H.1)