

**BOSTON EDISON COMPANY**  
GENERAL OFFICES 800 BOYLSTON STREET  
BOSTON, MASSACHUSETTS 02199

A. V. MORISI  
MANAGER  
NUCLEAR OPERATIONS SUPPORT DEPARTMENT



July 21, 1981

BECo. Ltr. #81-174

Mr. Boyce H. Grier, Director  
Office of I&E - Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA. 19406

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

Dear Sir:

In response to your letter of July 1, 1981 (Subject: Prompt Notifications and Instructions to the Public in the Event of an Emergency) please be advised that Boston Edison has requested an extension of required installation date until December 31, 1981. A copy of this request dated June 5, 1981 is attached (Attachment One). As stated in the aforementioned request for extension "Boston Edison has been and is continuing to make a good faith effort to provide... alert and notification capabilities to the State and local political jurisdictions involved in this very complex issue".

The initial design of this prompt alerting and notification system has been reviewed by the Federal Emergency Management Agency, Region One, and a copy of the favorable preliminary determination and findings is attached (Attachment Two).

The detailed technical specifications for the equipment required for this system have undergone extensive review with State and local officials and will soon be in the hands of available vendors formally requesting their proposals.

It should be noted that many compensatory factors exist in lieu of the completely installed and operational system, and these factors should be considered in the granting of an extension for this requirement.

- Emergency Action Levels have been revised extensively over the past year at the request of NRC emergency preparedness personnel and final revisions are currently under NRC review.
- Notification of Local Authorities is currently being revised to allow for simultaneous notification of all local governments within the plume exposure pathway by direct radio link to the control room and EOF.
- Prompt Offsite Protective Actions can now be taken more effectively since the procedural means now exist to recommend protective actions directly to local authorities in the absence of State officials. The direct communications link mentioned above will further facilitate such actions.

Mr. Boyce H. Grier, Director  
July 21, 1981  
Page 2

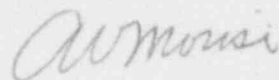
- Pre-written Public Messages are being revised to reflect Boston Edison's emergency classification scheme (Attachment Three). These messages will be reviewed by the Region One RAC on September 25, 1981 along with all offsite plans.
- Emergency Public Information Brochure is in the final stages of development and is tentatively scheduled for distribution in early September. A draft of the brochure is attached (Attachment Four).
- Emergency Broadcast System capabilities exist and are in place to provide radio and television emergency public information. This system is part of the Massachusetts Comprehensive Emergency Response Plan.
- Existing Alerting and Notification capabilities exist and are documented in State and local emergency plans. These systems have limited siren capability and are predominantly mobile voice audible systems. These systems, although limited in comparison to current requirements, when coupled with the above mentioned Emergency Broadcast System can and do provide prompt alerting and notification to the general public.

Boston Edison has expended a great deal of time, effort and dollars in assuring that all of the work that has gone into the designing of this system has been coordinated with all local, State and Federal authorities. Boston Edison submits that such coordination is essential to the ultimate success of this system. While vendor selection will soon be completed, the securing of rights of way, the meeting with public officials and the public hearing procedures continue. However, Boston Edison and our consultant, Stone and Webster Corporation, are confident that December 31, 1981 should see the completion of these efforts.

A copy of the report describing the initial design of this system is enclosed. This is the report entitled Prompt Alerting and Notification System - Pilgrim Nuclear Power Station that is referred to in Attachment Two.

Should you have any further questions or require additional information please do not hesitate to call us.

Very truly yours,



Attachment 1

**BOSTON EDISON COMPANY**  
 GENERAL OFFICES 800 BOYLSTON STREET  
 BOSTON, MASSACHUSETTS 02199

A. V. MORISI  
 MANAGE  
 NUCLEAR OPERATIONS SUPPORT DEPARTMENT

June 5, 1981

BECO. Ltr. #81-123

Mr. Darrell G. Eisenhut, Director  
 Division of Licensing  
 Office of Nuclear Reactor Regulation  
 U.S. Nuclear Regulatory Commission  
 Washington, D. C. 20555

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

Dear Sir:

10 CFR 50 Appendix E and NUREG 0654, Revision 1, Appendix 3 require that by July 1, 1981 that the nuclear power licensee shall demonstrate that administrative and physical means have been established for alert and prompt notification of the general public within the plume exposure Emergency Planning Zone. Boston Edison requests an extension of that date for Pilgrim Nuclear Power Station until December 31, 1981.

Boston Edison has been and is continuing to make a good faith effort to provide the above mentioned alerting and notification capabilities to the state and local political jurisdictions involved in this very complex issue. Prior to the distribution of NUREG 0654, Revision 1 we had been working with local and state officials along with the Stone and Webster Engineering Corporation in the design of a system that would be cost effective, meet the federal guidelines, and be accepted as part of the comprehensive emergency preparedness programs of the state and local governments.

Since both the NRC and FEMA recognize that the responsibility for activating such a system is properly the responsibility of state and local governments, Boston Edison is confident that both agencies also recognize the necessity for involving the state and local public officials in this entire process. To this end, the state and local public officials have been involved prior to selecting a contractor to design the system and in fact the staff at the Massachusetts Civil Defense Agency was directly involved in selecting that contractor after a lengthy review of the bidders. Since the selection of Stone & Webster, local and state elected and appointed officials have been involved in numerous meetings to discuss the problems involved in the initial design which is described in the report entitled Prompt Alerting and Notification System - Pilgrim Nuclear Power Station. (A copy of this report distributed in April of 1981 is enclosed.) This total involvement of multi-jurisdictions although time consuming will lead to a better end product.

Dupe 8106120204

Mr. Darrell G. Eisenhut, Director  
June 5, 1981  
Page 2

Boston Edison has recently embarked on the second phase of this project which will involve bid specifications, vendor selections, securing rights of way, ordering of equipment, state and local meetings and hearings, installation, testing, revising procedures, etc. Stone & Webster Engineering Corporation will be assisting in the management of the remainder of this project which will require the aforementioned extension.

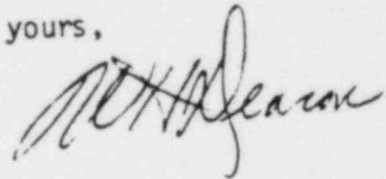
Whereas the Commission itself has gone on the record as recognizing that (1) this requirement will present a significant financial impact on the licensee; (2) that the technical basis for this requirement is clearly disputable; and (3) there may never be an accident requiring using the fifteen minute capability (August 19, 1980 45 FR 55407), the licensee submits that this project must be cautiously completed and that the granting of this extension until December 31, 1981 will in no way impede the public health of safety throughout the Emergency Planning Zone.

It should further be noted that the communities surrounding PNPS have systems for notification of the public using inherent capabilities. These systems are mobile voice audible sound systems and while they may not meet the "fifteen minute requirement" they are relatively quick and capable of transmitting more information than a simple audible alert. The existing local systems coupled with the existing state-wide Emergency Broadcast System can and do provide ample capabilities for the prompt alerting and notification functions.

Boston Edison has authorized over one million dollars for the completion of this system, and is making a good faith effort to assure that a viable element of emergency preparedness is completed based upon sound management principles and a firm foundation of public support.

Should you have any questions or require additional information, please do not hesitate to call us.

Very truly yours,

 for  
A.V. Morris

Attachments

cc: Mr. Boyce H. Grier, Director  
Office of Inspection & Enforcement  
Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA. 19406



Region I

## FEDERAL EMERGENCY MANAGEMENT AGENCY

John W. McCormack Post Office and Courthouse  
Boston, Massachusetts 02109

July 10, 1981

Mr. Robert Cunningham  
Staff Assistant  
Boston Edison Co.  
800 Boylston St.  
Boston, MA 02199

Dear Mr. Cunningham:

We have reviewed the proposed, "Prompt Alerting and Notification System-Pilgrim Nuclear Power Station," dated March 1981, which was prepared by Stone & Webster Engineering Corp. (SWEC) and forwarded to us in your letter of June 17, 1981. Our preliminary determinations and findings are submitted in accordance with procedures outlined in Guidance Memorandum #18, "FEMA Actions to Qualify Alerting and Notification Systems Against NUREG 0654 - FEMA Rep-1."

We feel the notification system meets the spirit and intent of the requirements detailed in Appendix 3 of NUREG 0654, and therefore warrants our preliminary approval. This approval is predicated on implementation of all components of the notification system as proposed by SWEC. We also agree with the SWEC conclusion that activation of the entire system should be the prerogative of the Massachusetts Civil Defense Agency, acting for the Governor.

For final approval, we will need to see and evaluate the detailed plans for the implementation of mobile alerting as well as procedures for activation of the system. Our final approval will be based upon analysis of the effectiveness of the system and will include a statistical sampling of the population within the 10-mile EPZ to determine the notification level achieved.

The system proposed by SWEC is well designed and particularly sensitive to the needs of the handicapped. We share your desire to provide the most effective alerting system for the citizens in the vicinity of PNPS and are most interested in the special means you propose to alert and inform the visual and hearing impaired population. We commend such efforts, and as the system is implemented may want to publicize the results within the emergency management community.

We also noted that the alert system plans address the transient, seasonal population as an important segment of the EPZ population. We are encouraged to see that PNPS will provide adequate siren alert, public address, and mobile alert to the beaches and State forest recreational areas which are a predominant part of the economy and lifestyle of communities in the EPZ.

Sincerely yours

George H. Patrick III, Director  
Plans & Preparedness



MASSACHUSETTS CIVIL DEFENSE AGENCYSAMPLE MESSAGESCONDITIONS 1 & 2

An "Alert" has been declared by Boston Edison Company for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. This alert has resulted because of a possible emergency condition at the plant site. No radiation hazard exists and No danger is expected outside the plant boundary.

Stay in your home and tune to this radio/TV station for further information. Local and State officials will advise you further. Do not call or go to the plant area. Repeat -- THIS IS AN ALERT ONLY -- DO NOT TELEPHONE -- DO NOT GO TO THE PLANT AREA -- STAY TUNED FOR FURTHER INFORMATION

CONDITION 3

A "Site Emergency" has been declared by Boston Edison Company for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. There is expected to be/has been a release of radioactive material at the plant site. No danger exists outside the plant boundary. Repeat -- No danger exists outside the plant boundary.

Stay in your home and tune to this radio/TV station for further information. Local and State officials will advise you if further action is required. Do not call or go to the plant area. Repeat - THIS IS A SITE EMERGENCY - DO NOT TELEPHONE - DO NOT GO TO THE PLANT AREA - STAY TUNED FOR FURTHER INSTRUCTIONS.

CONDITION 4

A "General Emergency" has been declared by Boston Edison Company for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. Stay indoors and tune to this radio/TV station for further instructions. Refer to the Emergency Public information material distributed to all households within the 10-mile EPZ.

As a safety precaution, you are advised to take shelter in your home or place of work. Take a portable radio/TV to the basement of your home or to a room with fewest windows. Do not go outdoors unless absolutely necessary, but if you must go out cover your nose and mouth with a handkerchief or towel as you breathe.

If you are directed to evacuate by public safety officials, please do so according to instructions. Move with caution and proceed directly to the reception center designated for your area. Do not evacuate unless directed to do so. Repeat - THIS IS A GENERAL EMERGENCY - DO NOT TELEPHONE - DO NOT GO TO THE PLANT AREA - STAY TUNED FOR FURTHER INSTRUCTIONS.

Draft Emergency Public Information  
Brochure

[Mailing label & postage]

WHAT TO DO  
IN CASE OF AN EMERGENCY  
AT PILGRIM NUCLEAR POWER  
GENERATING STATION

INSTRUCTIONS FOR RESIDENTS OF  
PLYMOUTH, MARSHFIELD, DUXBURY, KINGSTON, AND CARVER, MASSACHUSETTS

[Self-adhesive insert]

EMERGENCY INSTRUCTIONS

Nuclear power generating stations cannot explode. If there was an accident there would usually be time to take precautionary measures. Also depending on atmospheric conditions, only limited areas may be affected. If there ever is a problem:

- o Stay indoors until you are instructed to do otherwise.
- o Stay tuned to your local radio or television stations for information and instructions.  
Radio WPLM 1390 AM/99.1 FM,  
WBZ 1030 AM  
WBZ-TV Channel 4
- o Close all windows and doors tightly.
- o Turn off all combustion heating and cooling systems.
- o If your building has a basement, take a portable radio and go there.
- o If you do not have a basement, keep away from doors and windows.
- o Use the telephone only in emergency situations.
- o Keep calm at all times. Panic is your greatest enemy in any emergency. Refer to the Emergency instructions booklet.
- o If you are instructed to evacuate follow the directions in the Emergency Instruction booklet.
- o If you have any questions or require special assistance call your local Civil Defense Office.

In the unlikely event that a serious accident should occur at the Pilgrim Nuclear Power Generating Station, the information contained in this booklet will help you prepare in advance and respond to this and any other emergency situation affecting your area. Emergency Plans have been prepared by all towns within 10 miles of the power generating station in cooperation with the Massachusetts Civil Defense Agency.

Although this booklet addresses emergencies at nuclear power generating stations, portions of it also apply to any other emergency. Please read it carefully, save it, and share it with your family.



## NOTIFICATION OF ANY EMERGENCY

In the event of an emergency, including an accident at a nuclear generating station, local authorities will notify you in several ways:

- o Civil Defense sirens -- 3 to 5 min. steady tone;
- o Tone-alert radios in households where these have been placed;
- o Police or other official vehicles on a street-by-street basis;
- o Public address systems;
- o Television and local radio stations.

When you hear any of these signals take shelter indoors and turn on your radio or television to a local station. Page \_\_\_ of this booklet lists the stations in your area. They will carry further information and instructions on the type of protective action to take.

### For the Disabled, Handicapped, and Those with Special Needs

Special provisions have been made to provide car and *special* transportation for all the disabled or those with special needs. It is important that you let any special needs be known. Contact your city or town Civil Defense Office in advance as listed at the back of this brochure.

## PREPARING FOR EMERGENCIES

Since you may have to leave your home on short notice for any one of a number of emergencies including flooding, chemical spills, and those at nuclear power generating stations, you can do some things now to make things easier later. Here are four sensible ways to prepare yourself for any emergency:

1. Collect your important papers and store them in a safe place. They should all be together so that you can take them with you, if you want, without wasting time searching for them.
2. Set aside another place for emergency gear such as flashlight, extra batteries, extra sets of car keys. First Aid kit, fire extinguisher, and other items that you may want quickly.
3. Make a list of things you'll need to take with you, and make sure you always have them on hand.
4. Keep your car in good running order with an adequate supply of fuel.

## ESSENTIAL ITEMS YOU MAY WANT TO TAKE

These are only general suggestions for any evacuation; they obviously don't apply to everyone. Shelters in host towns will provide food and bedding.

### Clothing

- A. Enough seasonal clothing for 2 days.

### Medical Supplies

- A. First Aid Kit
- B. Prescription medicines and prescriptions

### Personal Items

- A. Soap and towels
- B. Shaving articles
- C. Toothpaste and toothbrushes
- D. Sanitary supplies
- E. Required papers (auto registration and credit cards)

### Children and Infants

- A. Disposable diapers and powder
- B. Bottles
- C. Milk/formula

### Other Supplies

- A. Flashlight
- B. Candles/matches
- C. Portable radio/batteries
- D. Plastic or paper bags
- E. Hand tools (for car repairs)

AREA MAP

#### LOCAL EVACUATION ROUTES AND RECEPTION CENTER

The adjacent map indicates the relocation center for your area and recommended routes to follow. If you have any problems with transportation or require further information or assistance call your local Civil Defense Office listed below.

#### DIRECTIONS

[Keyed to map]

#### EMERGENCY BROADCAST STATIONS

WPLM 1390 AM/99.1 FM

WBZ 1030 AM

WATD 96 FM

WBZ-TV Channel 4

#### EMERGENCY ASSISTANCE AND INFORMATION

The disabled and those requiring special assistance should contact the offices listed below so that adequate preparation can be made and assistance provided:

#### Local Civil Defense Office

Plymouth  
Marshfield  
Duxbury

Kinston  
Carver

Massachusetts Office of Civil Defense  
400 Worcester Road  
Framingham, MA 01701 875-1381, 237-0200

## EVACUATION ONLY IF DIRECTED

If an evacuation is called for by public safety officials, this will be communicated to you over the radio or TV. Do not hesitate or waste time collecting your possessions. Prepare ahead of time using the checklist on page \_\_\_ of this booklet. When directed to evacuate follow these instructions:

1. Gather all household members together. If you have children in school within the evacuation area DO NOT TRY TO PICK THEM UP. They will be transported out of the area to the designated reception center for your area where you may join them (see map on page \_\_\_). The same applies for nursing home residents and hospital patients.
2. Any household members outside of the area at the time of an evacuation will not be permitted to return during an evacuation but will instead be directed to the specified reception center where they can join you.
3. Pack only essential items (see checklist on page \_\_\_).
4. Turn off lights and appliances and secure your home as if you were going on vacation. Lock all doors and windows.
5. Keep your pets indoors with about two days supply of food and water. Do not bring pets to the reception center.
6. If you have livestock, shelter them inside and provide feed and water for about two days time.
7. Don't get on the road with a car in poor running condition or too little gas. Instead try to carpool with a neighbor or call your local Civil Defense Office for assistance.
8. Don't rush and do not panic. The danger of an auto accident is greater than from any radiation emergency.

## STAYING INDOORS: "SHELTER IN-PLACE"

A "Shelter In-Place" announcement means STAY INDOORS. This is the most likely protective action to be recommended by public safety officials and affords the greatest degree of immediate protection. Evacuation is much less likely to be called for and in most cases is not as effective.

If you are at home when shelter is recommended, stay indoors and stay tuned to a local radio or TV station for further instructions. If you are away from your home stay where you are indoors or seek shelter in the nearest available building.

Wherever you are, take the following precautions to minimize the risk of exposure to radiation:

1. Make sure all doors and windows are tightly closed.
2. If in your car, close all windows and vents as you proceed to your destination.
3. Turn off all heating or air conditioning systems if they bring in outside air.
4. Take a radio or television with you and move to the basement if you have one. If not, move to a room with fewest windows and doors.
5. Keep everybody -- including pets -- indoors. Stay calm and tuned to your local radio or TV station.
6. Refer to the map and additional information on page \_\_\_ of this booklet in the event that you are instructed to evacuate at a later time.
7. If you must go outdoors, place a handkerchief, towel or protective mask over your nose and mouth to filter the air you breathe. Limit the time you are outside.