



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555

DOCKETED  
USNRC

September 24, 1987

'87 SEP 25 A8:23

RECEIVED  
SECRETARY

The Honorable William B. Golden  
Massachusetts State Senate  
Boston, Massachusetts 02133

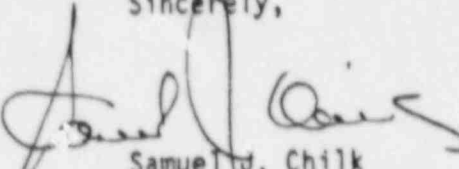
SERVED SEP 25 1987

Re: Docket No. 50-293 (2.206)

Dear Senator Golden:

This is to inform you that the time provided by NRC regulations within which the Commission may act to review the Director's Decision (DD-87-14) in this docket has expired. The Commission has declined any review. Accordingly, the decision became final agency action on September 15, 1987.

Sincerely,



Samuel J. Chilk  
Secretary of the Commission

cc: Service List

8811160262 88101B  
PDR FOIA  
JOHNSON88-198 PDR

N/21

12/10/87

to: W. Lazarus  
from: C. Conklin  
subject: Pilgrim Station Annual Exercise Performance Summary

Background:

Pilgrim Station conducted a partial participation exercise from 0800 to 1400 on December 9, 1987. The exercise commenced with a declaration of Unusual event due to a contaminated injured man, an Alert due to a stuck open SRV, and General Emergency due to a LOCA leading to core uncover combined with loss of safety equipment.

Performance:

The licensee quickly and correctly recognized and classified accident conditions. Protective action recommendations were conservative and timely. Staff augmentation and facility activation was timely. Several weaknesses were identified. These included: procedural problems with initial notification message forms; several key positions in the ERO do not have sufficient depth; discrepancies between dose assessment models; and poor command and control in the TSC. Overall performance indicated that the licensee would have performed in a manner to protect the health and safety of the public in the event of an accident.

State/Local Performance:

There was no local participation in the exercise. There was <sup>limited</sup> Commonwealth participation ~~not for~~ Department of Health personnel in the EOP. N/A did not observe this exercise. ]

Massachusetts

limited

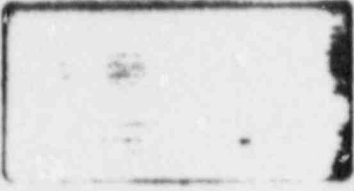
participated

12/14

Dick:  
As we discussed. Note our  
change in last paragraph.

Talk

N/23



EPG Group  
Security VI Training  
TCS Hydro  
EOP Review Prog.  
JEP Drill



## TELEPHONE REPORT

Date: \_\_DEC\_17, 1987 Time: \_\_9:45\_P.M.

Facility: Pilgrim Nuclear Power Station District: \_\_50-293

Brief Subject: Pilgrim Restart Hearing By Full Senate  
Committee

## Description of Occurrence:

A staffer from Senator Kennedy's Boston Office (Kathy Anderson) called the Region 1 office at 9:45 pm and reported that the Senate LABOR AND HUMAN RESOURCES COMMITTEE will hold a hearing on January 7, 1988, in the Plymouth, Massachusetts area on the public health impact of the proposed restart of the Pilgrim station.

She indicated that the 4 issues the committee would be looking into were:

- The progress on improving evacuation plans
- What is going on at this time with respect to an NRC decision on restart
- How will FEMA's findings be addressed
- Why has the NRC not held adjudicatory hearings on the restart as requested

Their list of proposed attendees was reported to include:

- A panel of local residents
- A panel of public interest groups
- A panel of representatives from departments of the Commonwealth of Massachusetts
- The NRC
- FEMA
- Boston Edison Company

She also indicated the desire to have working level staff meetings with NRC during the week after Christmas, in order to prepare for the hearings. She also asked who from the NRC would be the most probable people to participate in the hearing and the working level meeting, and where would be a good place to hold the working meeting.

She indicated that a time and place for the hearing had not yet been determined, but would be announced at a later date.

She was recontacted and advised that she should contact the Office of Congressional Affairs to arrange participation of the NRC in this event.

Notification received by: Lawrence T. Doerflein  
Roy Fuhrmeister

BARNEY FRANK  
4TH DISTRICT, MASSACHUSETTS

COMMITTEES  
GOVERNMENT OPERATIONS  
CHAIRMAN  
EMPLOYMENT AND HOUSING  
BANKING, FINANCE, AND  
URBAN AFFAIRS  
JUDICIARY  
AGING

Congress of the United States  
House of Representatives  
Washington, D.C.

July 1, 1986

WASHINGTON OFFICE  
1030 LONGWORTH BUILDING  
WASHINGTON, D.C. 20515  
(202) 225-5931  
DISTRICT OFFICES  
437 CHERRY STREET  
WEST NEWTON, MASSACHUSETTS 02165  
(617) 332-3920  
(617) 223-1648  
10 PURCHASE STREET  
FALL RIVER, MASSACHUSETTS 02722  
(617) 674-3571  
8 NORTH MAIN STREET  
ATTLEBORO, MASSACHUSETTS 02703  
(617) 228-4723 (H)

Mr. Lando Zech  
Chairman  
Nuclear Regulatory Commission  
1717 H Street, N.W.  
Washington, MA 20555

Dear Mr. Zech:

I would appreciate it if you would send me detailed information regarding your records of radioactive emissions at the Pilgrim Nuclear Power Plant in Plymouth, Massachusetts.

Please list all radioactive releases that are normally allowed by your regulations, and also list separately those releases that exceeded the technical specifications for the plant.

Thank you for your attention to this matter.

  
BARNEY FRANK

BF/rwn

cc: Representative Edward Markey

~~8608210284 (10)~~

N/3



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
631 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

AUG 20 1986

Docket No. 50-293

Boston Edison Company M/C Nuclear  
ATTN: Mr. James Lydon  
Chief Operating Officer  
800 Boylston Street  
Boston, Massachusetts 02199

Gentlemen:

Subject: Management Meeting (50-293/86-30) Held on July 30, 1986

This letter transmits a report of the management meeting held in the Region I Office, King of Prussia, Pennsylvania on July 30, 1986 to discuss Boston Edison Company (BECo) corrective action and improvement programs, including plant status, SALP issues, Mark I confinement enhancements and other issues.

We believe the discussions were frank and constructive.

Thank you for your cooperation.

Sincerely,

*Harry B. Kister*  
Harry B. Kister, Chief  
Project Branch No. 1

Enclosure: Management Meeting No. 50-293/86-30

cc w/encl:

L. Oxsen, Vice President, Nuclear Operations  
A. E. Pedersen, Station Manager  
Paul Levy, Chairman, Department of Public Utilities  
Edward R. MacCormack, Senior Regulatory Affairs and Program Engineer  
Chairman, Board of Selectmen  
Plymouth Civil Defense Director  
J. D. Keyes  
The Honorable E. J. Markey  
Senator Edward P. Kirby  
The Honorable Peter V. Forman  
Sharon Pollard  
Public Document Room (PDR)  
Local Public Document Room (LPDR)  
Nuclear Safety Information Center (NSIC)  
NRC Resident Inspector  
Commonwealth of Massachusetts (2)

8702190673 (app)

N/4

bcc w/encl:  
Region I Docket Room (with concurrences)  
Management Assistant, DRMA (w/o encl)  
Section Chief, DRP  
W. Raymond, SRI, Vermont Yankee  
T. Shedlosky, SRI, Millstone 1&2  
H. Eichenholz, SRI, Yankee  
P. Leech, LPM, NRR  
PAO (2) SALP Reports Only  
Robert J. Bores, DRSS



U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Meeting No. 50-293/86-30

Docket No. 50-293

License No. DPR-35

Licensee: Boston Edison Company M/C Nuclear  
800 Boylston Street  
Boston, Massachusetts

Facility Name: Pilgrim Nuclear Power Station

Meeting At: USNRC, Region I, King of Prussia, PA

Meeting Conducted: July 30, 1986

Prepared by: Jack Strosnider  
for M. McBride, Senior Resident Inspector

8/19/86  
Date

Approved by: Jack Strosnider  
J. Strosnider, Chief, Projects Section  
DRP

8/19/86  
Date

Meeting Summary: A management meeting was held at NRC Region I on July 30, 1986 to discuss plant status, SALP improvement status, overtime control, startup checklist, Mark I Containment enhancement and other issues. The meeting lasted about two hours. Members of the news media attended the meeting.

~~8702190675~~  
(6pp)

## DETAILS

### 1.0 Purpose

The management conference was held at the request of NRC Region I. The licensee was asked to discuss recent program improvements and other topics of interest at the plant. The licensee announced prior to the meeting, that the current outage would be extended until early 1987.

### 2.0 Meeting Summary

Dr. T. Murley, NRC Region I Administrator, opened the meeting with a brief discussion of recent regulatory actions, including the Augmented Inspection Team, Confirmatory Action Letter (CAL) 86-10, and the agreement to seek Region I approval prior to starting the plant. Mr. A. L. Oxsen, Vice President of Nuclear Operations, opened Boston Edison's presentation by discussing recent licensee program changes, including a management realignment under an Executive Vice President and the decision to enter into refueling outage number seven. Mr. Oxsen indicated that Boston Edison will complete fire protection modifications required by 10 CFR 50, Appendix R during this outage. Boston Edison also plans to work on further improvements in management control processes and implement certain Mark I containment enhancements during the outage.

#### a. Plant Status

Current outage work was discussed, including inspections of the residual heat removal (RHR) pump impeller wear rings and ongoing containment leakage testing. No visual indications have been detected in the wear rings of the two RHR pumps that had been disassembled. The remaining two RHR pumps will be inspected in the near future. The licensee discussed bearing wear that had been detected in one of the pump motors and indicated that the pump impeller wear rings will be tested for hardness and dye penetrant checked.

The status of local leak rate testing (LLRT) was reviewed. Problems with the leakage test procedure for the feedwater check valves that may have contributed to a falsely high as-found leakage rate were discussed. The licensee stated that the LLRT procedure would be modified prior to as-left testing. The licensee's plans for integrated leakage testing were also discussed.

#### b. SALP Improvement Status

Improvements in management programs that relate to SALP-identified weaknesses were discussed, including the work control process at the station, the development of performance indicators, communication of problems within the licensee organization, and staff accountability. The licensee stated that full-time planners would be assigned to

each management section head, to help track and prioritize section work. Periodic morning meetings between the Plant Manager, QA, and the section heads were also described.

The licensee's preparations for this year's emergency planning exercise were discussed. The licensee indicated that several practice drills were planned.

c. Overtime Control During Startup

The projected number of licensed operators available for the plant start up in 1987 were discussed. The licensee indicated that five shifts will be manned and that an additional senior licensed operator will be added to each watch. Boston Edison agreed to discuss planned overtime controls during the next plant startup in more detail during the next NRC management meeting.

d. Startup Check List

The preparation of a detailed check list of items that should be completed prior to a plant startup was discussed. The licensee indicated that the startup will last several weeks and will contain hold points at particular power levels. Regional management indicated that the checklist and the startup itself will be reviewed in considerable detail and that Regional Administrative approval will be required prior to proceeding past certain critical hold points to be identified later. The Regional Administrator indicated that he will not grant approval for a restart until after the NRC has reviewed the licensee's startup plan.

e. Mark I Containment Enhancements

The licensee discussed possible improvements for the Mark I containment at Pilgrim. The changes will probably be made to enhance such features as containment oxygen control, containment venting, and containment spray. The need to consider these changes carefully and avoid inadvertently degrading other aspects of containment was emphasized by regional management. The licensee agreed and indicated that the enhancements would receive a thorough review. The licensee also indicated that they would be working closely with Vermont Yankee, another plant that is reviewing the Mark I containment design.

f. Other Topics

Other discussion topics included maintenance planning, the maintenance backlog, once per cycle surveillance test scheduling, outage activities, and security program problems.

The licensee indicated that efforts were underway to reduce the maintenance backlog and implement a maintenance planning group. The licensee does not expect the planning group to be fully developed until the end of the current outage (although planning procedures should be in place by this fall). The licensee stated that the number of outstanding maintenance requests has been decreasing, although the number increased during the recent Boston Edison strike. The licensee indicated that the number of open maintenance requests by itself was not a good indicator of the plant physical condition. On another maintenance item, the licensee indicated that the deficiency stickers for the control rod position indication system in the control room could not be cleared without extensive under vessel work. The status of these repairs was questioned during a recent visit to the site by an NRC commissic ar.

The licensee briefly discussed some of the recent surveillance test scheduling problems, and indicated that the testing frequency for once-per-cycle tests would be clarified with NRR. The NRC regional staff discussed the importance of carefully reviewing the surveillance frequency for each type of once-per-cycle test and noted that certain safety-related electrical equipment, required to be calibrated once-per-cycle, had recently been found out of calibration.

Security staffing problems and the amount of inoperable security equipment (requiring compensatory measures) was discussed. Boston Edison indicated that staffing levels for the contractor security force would be increased and overtime closely monitored by Boston Edison management in the future. Boston Edison agreed to furnish the Pilgrim Senior Resident Inspector with the expected completion date for engineering evaluations of the scope of security equipment improvements. Subsequently, the licensee indicated that the evaluations would be completed by August 18, 1986.

Boston Edison stated that a major decontamination effort would be made in the plant during the current refueling outage. The licensee expects to decontaminate areas with safety-related equipment in the reactor building quadrant rooms so that these areas can be toured without protective clothing.

### 3.0 Concluding Statements

At the end of the meeting, Dr. Murley requested that Boston Edison be prepared to discuss the following issues during the next management meeting:

- Overtime control during the plant startup
- The expected scope of startup testing
- Containment leakage test results and fixes
- Mark I containment enhancements
- Updated outage schedule

Dr. Murley also indicated that the NRC will need to review Boston Edison's start up plans and hold points.

ATTACHMENT TO MEETING REPORT

50-293/86-30

MEETING ATTENDEES

Boston Edison Company (BECO)

|             |                                     |
|-------------|-------------------------------------|
| J. Lydon    | Chief Operating Officer             |
| E. Howard   | Vice President - Engineering & QA   |
| A. Oxsen    | Vice President - Nuclear Operations |
| A. Pedersen | Plant Manager                       |
| K. Roberts  | Director of Outage Management       |
| R. Swanson  | Nuclear Engineering Manager         |
| S. Hudson   | Operations Section Head             |
| C. Gustin   | Manager, Public Information         |

U. S. Nuclear Regulatory Commission

|                 |  |
|-----------------|--|
| T. Murle        | Regional Administrator                         |
| R. Starostecki  | Director, Division of Reactor Projects         |
| S. Erneter      | Director, Division of Reactor Safety           |
| H. Kister       | Chief, Reactor Projects Branch #1              |
| L. Bettenhausen | Chief, Operations Branch                       |
| J. Durr         | Chief, Engineering Branch                      |
| J. Strosnider   | Chief, Reactor Projects Section 1B             |
| M. Shanbaky     | Chief, Facilities Radiation Protection Section |
| M. McBride      | Senior Resident Inspector, Pilgrim             |
| G. Nejfelt      | Resident Inspector, Hatch                      |
| G. Smith        | Safeguards Specialist                          |
| P. Leech        | Project Manager, NRR                           |

Press

|             |                  |
|-------------|------------------|
| J. Gehorgam | Associated Press |
| J. Impemba  | Boston Herald    |



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
831 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

APR 01 1987

The Honorable William B. Golden  
Massachusetts State Senate  
Boston, Massachusetts 02133

Dear Mr. Golden:

This letter is in reply to your letter dated February 25, 1987, regarding our proposed meeting to discuss issues relating to the Pilgrim Nuclear Power Station.

I recognize that considerable time has passed since you filed your Petition on July 15, 1986, which requested that the Boston Edison Company (BECO) be ordered to show cause why Pilgrim should not remain closed or have its operating license suspended until BECO demonstrates that the issues raised by you have been resolved. While I appreciate your concerns on this matter, I want to make it clear that this delay does not mean the NRC has prejudged your Petition or denied its contentions. Rather, the delay has resulted from the NRC staff's recognition that the plant has remained in a shutdown condition since April, 1986, and, during this period, considerable changes have occurred and continue to occur in the substantive areas outlined in your Petition. As was indicated in Mr. James Taylor's letter to you, dated December 19, 1986, the NRC will formally respond to the issues raised in the Petition. Further, NRC will not agree to the restart of the plant until the issues which developed during its prolonged shutdown have been addressed to the satisfaction of the NRC.

In response to the specific questions in your letter, the following clarification is provided.

First, our proposed meeting is not intended to substitute for the completion of agency action on your Petition. The purpose of the meeting is to discuss NRC's actions regarding the Pilgrim plant, and answer questions you have, as we continue to evaluate the licensee's program to correct previously identified problems. Several senior members of the Region I staff will attend the meeting, and they will be able to address the technical issues which arise during the meeting.

Second, we are willing to have the meeting open to all the co-petitioners as well as any other interested party, including the licensee. However, for the sake of efficiency, we request that each group be represented by one or two preselected spokespersons and that time limits be pre-established for each group and/or topic. We have no objection to a transcript of the meeting, but we can discuss this matter further.

Third, we do not intend to substitute BECO's Restart Readiness Report for an NRC response to the issues raised in your petition.

~~2706250539~~ (Jpp)

~~2706250539~~

N15



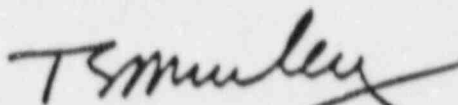
Honorable William B. Golden

2

APR 01 1987

My staff will be in touch with your office to arrange a meeting in the near future.

Sincerely,



Thomas E. Murley  
Regional Administrator


cc:

The Honorable Barbara A. Hildt  
The Honorable Frank M. Hynes  
Rachel Shimshak, Massachusetts Public Interest Research Group  
William Abbott, Plymouth County Nuclear Information Committee  
Gail Reed, Pilgrim Alliance

bcc:

B. Karr  
P. Polk  
J. Wiggins  
M. McBride  
W. Klingler, IE  
J. Partlow, IE  
T. Martin



  
BOSTON EDISON  
Executive Offices  
800 Boylston Street  
Boston, Massachusetts 02199

*O. M. ...*  
*T. ...*

Ralph G. Bird  
Senior Vice President - Nuclear

May 15, 1987  
BECO 87- 078

Mr. William T. Russell  
Regional Administrator  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia

License DPR-35  
Docket 50-293

Dear Sir:

In response to your April 7, 1987 staff letter, Boston Edison reviewed the current overall work plans for emergency preparedness. Based on that review, we request that you remove the date of August 12, 1987 for an Exercise at the Pilgrim Nuclear Power Station from the tentative schedule.

In addition, the Massachusetts Civil Defense Director, R. Boulay, has informed Mr. E. Thomas, Chief of Natural and Technological Hazards Division, Region 1, Federal Emergency Management Agency, that he is not certain that his organization can support an exercise on August 12, 1987. (see enclosure) I will contact you with preferred Exercise dates in the near future.

*R. G. Bird*  
R. G. Bird

TFF/pac

cc: Ron Bellamy  
U.S. Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

Peter M. Agnes, Jr.  
Assistant Secretary of Public Safety  
Commonwealth of Massachusetts  
Executive Office of Public Safety  
One Ashburton Place  
Room 2133  
Boston, Massachusetts 02108

*8814274167 (3pp)*

*N19*

BOSTON EDISON COMPANY

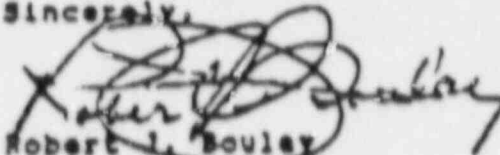
Page Two

cc: Robert Boulay, Director  
Massachusetts Civil Defense Agency and Office  
of Emergency Preparedness  
400 Worcester Road  
P.O. Box 1496  
Framingham, Massachusetts 01701-0317

Thomas P. Rodger, Director  
Area Two Massachusetts Civil Defense Agency  
P. O. Box 54  
Bridgewater, Massachusetts 02324-0054

I hope that this letter clarifies the position of this agency regarding its participation in a graded exercise for Pilgrim Station. Please do not hesitate to contact me if you have any questions regarding this matter.

Sincerely,



Robert L. Bouley  
Director

cc: Assistant Secretary Peter W. Agnes, Jr.  
Deputy Director John L. Lovering, MCDA/OEP  
Mr. Carl Gustin, Boston Edison Company  
Mr. Roger Silva, Boston Edison Company  
Chief Executives of Pilgrim EPZ and Host Communities  
Area II Director Thomas P. Rodger, MCDA/OEP



**BOSTON EDISON**  
 Executive Offices  
 800 Boylston Street  
 Boston, Massachusetts 02199

Ralph G. Bird  
 Senior Vice President — Nuclear

BECO 87-090  
 May 30, 1987

William T. Russell  
 Regional Administrator  
 U. S. Nuclear Regulatory Commission  
 Region I  
 631 Park Avenue  
 King of Prussia, Pennsylvania 19406

License DPR-35  
 Docket 50-293

Report of Defect or Noncompliance As Required  
 By 10CFR Part 21, Loose and/or Missing Bolts  
on Hydraulic Control Unit (HCU) Structural Frames

Dear Sir:

Pursuant to the requirements of 10CFR 21.21(b)(2), this letter provides written notification of a condition at Pilgrim Station that could constitute "A Substantial Safety Hazard" within the context of 10CFR 21.3 (Definitions). Mr. L. Dorflein of the NRC Region I was notified by telephone on 5/29/87 following completion of our evaluation on 5/27/87.

The attachment describes the reportable condition of loose and/or missing bolts on Hydraulic Control Unit Structural Frames.

*R. G. Bird*  
 R. G. Bird

Attachment

cc: See next page

*C Berlinger has lead*

~~87-090-081~~ (3pp)

N110

## Attachment

We have recently identified deficiencies involving loose and/or missing bolts in the Hydraulic Control Unit (HCU) support frames of the Control Rod Drive (CRD) System at the Pilgrim Nuclear Power Station. The deficiencies could impair the ability of the support frames to withstand a Safe Shutdown Earthquake (SSE). 31 of 145 Hydraulic Control Units were affected. The Hydraulic Control Units were installed by Reactor Controls Inc. under contract to Bechtel Power Corp. to a specification written by the General Electric Company.

Whether these deficiencies occurred during initial installation, during maintenance and overhaul, or during operation (i.e. vibration) could not be conclusively established. We have been informed that similar deficiencies were found at the Perry Plant and were attributed to original installation. Accordingly, for the purposes of Part 21 reportability, we are conservatively assuming the deficiencies occurred during initial installation and are filing this report.

We began our investigation into the HCU support frame problem following receipt of a General Electric Company letter, G-HK-6-326. The letter informed Boiling Water Reactor (BWR) Owners that missing or loose hold down bolts on the HCU support frames had been identified at a BWR/6. We completed our investigation May 27, 1987 and concluded that a Part 21 notification would be prudent.

The HCU support frame design at Pilgrim Station is similar to that found at other BWR's. BECo investigations determined that the HCU frame configuration at PNPS is not laterally supported near the location assumed in G.E.'s generic test configuration. The G.E. test configuration did not therefore envelope the Pilgrim site specific configuration and the safety assessment supported by the G.E. test did not apply. General Electric's letter notifying the BWR owners of the existence of this problem states:

"Neither the missing or loose hold down bolts or the erroneous BJM attachment observed at the BWR/6 constituted a safety problem during a faulted event nor would they at any BWR."

This statement could potentially mislead utilities into not recognizing the potential impact of this concern on their facilities or influence the sense of urgency with which utilities check for the existence of this problem at their facility.

The deficiencies found at Pilgrim Station have been documented in a Failure and Malfunction Report. A prompt 10CFR50.72 notification has been made and a 10CFR50.73 written submittal is being issued under separate cover. Because the specific root cause could not be established, corrective actions are being implemented to address various potential root causes.

For the purpose of this report, assuming the cause of the loose and/or missing fasteners was initial installation, our corrective action includes restoring the HCU's to original design prior to declaring the system operable. Additional corrective action to inspect the bolts under a preventive maintenance program is being taken to address the other potential causes.

BOSTON EDISON COMPANY

Mr. William T. Russell  
Regional Administrator

Page Two

cc: Director (3 copies)  
Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. R. H. Wessman, Project Manager  
Division of Reactor Projects  
Office of Nuclear Reactor Regulations  
U. S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20184

Senior NRC Resident Inspector  
Pilgrim Nuclear Power Station



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

June 19, 1987

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The Honorable Gerry E. Studds  
United States House of Representatives  
Washington, DC 20515

Dear Congressman Studds:

I am responding to your March 6, 1987 letter requesting that the Nuclear Regulatory Commission (NRC) address a number of issues regarding the Pilgrim Nuclear Power Station as raised by the Citizens Urging Responsible Energy (CURE), in their letter to you of February 6, 1987. Responses to these issues were prepared by the NRC staff and are enclosed. The CURE letter of February 6, 1987, which was attached to your letter, had not previously been received by NRC.

The Commission will hold a public meeting to be briefed by staff on the readiness of Pilgrim to resume operations before allowing restart of the plant. As a prerequisite to restart, the licensee, Boston Edison Company, must satisfy itself and the NRC that the facility and its operating staff and managers are ready to resume operation.

Boston Edison has not yet made such a determination. Consequently, we do not believe it is appropriate at this time to speculate on the extent and nature of further changes needed. However, we do agree with CURE that a number of issues have been identified which must be addressed before restart. In the interim, NRC is reviewing the remedial measures being instituted by the licensee.

Commissioner Asselstine disapproved this response.

Sincerely,

Thomas M. Roberts  
Acting Chairman

Enclosure:  
Response to Issues

Originated: NRR:Van Niel

~~2706450529~~ (6pp)

N/110

## I. Proposed Rule Related to Emergency Planning

The Commission, after holding a public meeting, voted to publish in the Federal Register (Vol. 52, No. 44 dated March 6, 1987) a notice of a proposed rule regarding the situation where there is a lack of cooperation by state and/or local governments in emergency planning. The amendment under consideration would by no means exclude state and local participation in emergency planning. The proposed rule would be directed only at those cases where state and/or local governments refuse to participate in such planning. Utility licensees would be granted no additional power or authority. The proposed rule, which applies only to those nuclear power plants for which no full power license has been granted, would not guarantee an operating license to any particular plant or plants. The Commission can grant an operating license only if it finds reasonable assurance that the public health and safety will be adequately protected.

## II. Proposed Rule Related to Radioactive Emissions

We assume that the reference to the proposed rule change to raise the tolerable levels of radioactive emissions from nuclear power plants is directed to the proposed revision to the Commission's regulations 10 CFR Part 20 as published in the Federal Register on January 9, 1986 (Vol. 51, No. 6, page 1092). The notice in the Federal Register provided interested members of the public the opportunity to comment on the proposed rule. Your comments and those relating



#### IV. Pilgrim Emergency Plans

CURE states that the Pilgrim plant has operated for 14 years without a fully approved evacuation plan. This is misleading because, prior to 1980, there were no detailed evacuation planning requirements included in the NRC's emergency planning regulations. Pilgrim did comply with NRC emergency planning requirements from 1972, when the plant was licensed, until 1980, when new requirements were imposed. Also, as explained below, emergency planning for Pilgrim has been adequate since 1980.

For each nuclear power plant which held a license to operate at the time the NRC final rule on emergency planning became effective (November 3, 1980), as was the case with Pilgrim, the NRC based its post-1980 reasonable assurance findings for each operating reactor on consideration of: (1) upgraded licensee, State and local government emergency plans that substantially met the requirements of the final rule; (2) a review of the onsite plans by the NRC; (3) a comprehensive appraisal conducted by the NRC at the operating reactor site to verify the implementation of the licensee's plan; and (4) the evaluation of a joint exercise involving the licensee, state and local governmental organizations. These reviews and appraisals were conducted between 1980 and 1982. The onsite portions of such exercises were observed by the NRC while the offsite portions were observed by the Federal Emergency

Management Agency (FEMA). FEMA provided the NRC with its assessment of the exercises. Consideration of the emergency plans, this series of evaluations, and associated corrective actions resulting from the evaluations constituted the means by which the NRC determined there was an adequate level of emergency preparedness at this and other nuclear power plants with operating licenses. Thus, both the NRC and FEMA found that emergency planning at Pilgrim was adequate. The "interim approval" status mentioned in CURE's letter likely refers to FEMA's "interim findings" provided in instances where FEMA had not completed its formal administrative review of offsite plans and preparedness under FEMA's regulation 44 CFR 350. Since 1982, the Pilgrim plant has participated in emergency preparedness exercises where onsite and offsite response capabilities were demonstrated and evaluated by the NRC and FEMA. On four separate occasions, FEMA has reported to the NRC the adequacy of offsite response capabilities.

The NRC has requested that FEMA evaluate the offsite emergency planning and preparedness issues raised in the July 15, 1986 petition filed by Senator Golden, et al. (see below). FEMA has reported that on December 22, 1986, the Commonwealth of Massachusetts' Secretary of Public Safety sent FEMA a copy of the Office of Public Safety report entitled, "Report to the Governor on Emergency Preparedness for an Accident at the Pilgrim Nuclear Power Station." In addition, the Office of Public Safety recently requested FEMA, Region I, to

the issues raised, the specificity of the information provided, whether additional information is needed or analysis required, and whether responses to the petition from the licensee or others are appropriate. In this case, the Staff decided that it would be more meaningful to formally respond to the petition after the licensee had an opportunity to address the issues raised by the petition and the NRC had an opportunity to review the licensee's actions and other necessary information. While the NRC continues to evaluate the licensee's program to correct previously identified problems, the NRC has proposed a meeting with Senator Golden in order to discuss the NRC's actions and to answer any questions the Petitioners may have. We expect such a meeting will be held in the near future.

CUPE requests the NRC to force Boston Edison to undergo the scrutiny of a "public investigation." Although it is not entirely clear what is meant by a public investigation, we have stated how we intend to address the issues in this case. As stated in the attached April 1, 1987 letter to Senator Golden, (1) the NRC will formally respond to the issues raised in the Senator's Petition, and (2) the NRC will not agree to the restart of the plant until all of the identified problems have been addressed to the satisfaction of the NRC.

#### VI. Operating Problems at Nuclear Power Plants

The NRC has ongoing programs to monitor the performance of nuclear power plants and to detect deteriorating performance such that timely corrective actions can be initiated. For example, the NRC's Systematic Assessment of Licensee's Performance (SALP) program has successfully identified areas where licensees'

activities needed improving and where additional regulatory oversight by the NRC was warranted. In the specific case of Pilgrim, it was the NRC's SALP report which documented the staff's concerns with operations at the plant and diagnosed the problem relating to management involvement and oversight. Within a few months after this critical review, Boston Edison Company identified some problems that further supported the SALP findings; subsequently the licensee agreed to delay restart in order to institute more effective corrective measures and to allow the newly assigned managers time to address the issues in a deliberate manner.

The Report to Congress on Abnormal Occurrences, NUREG-0090, is another ongoing program by which the NRC identifies significant events to Congress and the public. The requirement for abnormal occurrence reporting was established to especially highlight significant events from the standpoint of public health and safety. When an event is determined to meet the reporting criteria, additional NRC resources and public attention are focused on the licensee's activities to ensure that corrective actions are completed in a timely manner to reduce the likelihood of a similar event. The number of abnormal occurrences for operating plants having Mark I containments does not appear to be significantly higher than that of other plants having different containment designs. However, this does not minimize the importance that the NRC places on plants having this containment design. Recently, the NRC initiated the Performance Indicator Program which will contribute to the early detection of declining performance of plant operations. The goal of all of these programs is to monitor licensees' performance in a proactive manner to enable timely corrective actions to prevent accidents and protect public health and safety.



UNITED STATES  
 NUCLEAR REGULATORY COMMISSION  
 REGION I  
 831 PARK AVENUE  
 KING OF PRUSSIA, PENNSYLVANIA 19406

*Copies for  
 Kauter  
 Van Nieu  
 Hogan  
 [Signature]*

SEP 29 1987

Commonwealth of Massachusetts  
 Civil Defense Agency and Office  
 of Emergency Preparedness  
 ATTN: Mr. Robert J. Boulay  
 Director  
 P.O. Box 1496  
 400 Worcester Road  
 Framingham, Massachusetts 01701-0317

Dear Mr. Boulay:

In your letter of July 24, 1987, you requested we acknowledge that you have determined the plume exposure emergency planning zone (EPZ) should be reconfigured for the Pilgrim Nuclear Power Station to include the towns of Carver and Marshfield in their entirety. We subsequently understand that this reconfiguration has now been deferred to enable priority attention be given to your ongoing efforts with the current EPZ communities, the Boston Edison Company and FEMA in improving emergency planning and preparedness within the current EPZ. We encourage these efforts to improve emergency preparedness.

Sincerely,

*W. Russell*  
 William T. Russell  
 Regional Administrator

cc:  
 E. Thomas, FEMA I  
 R. Bird, BeCo

bcc:  
 T. Murley, NRR  
 R. Starostecki, NRR  
 F. Miraglia, NRR  
~~V. Conger, NRR~~  
 W. Kane, RI

*8801130414 (p)*

*N/2 =*

TO: DICK NEWMAN  
FROM: CH  
United States Senate

~~SECRET~~

WASHINGTON, DC 20510

December 18, 1987

Mr. Lando W. Zech, Jr.  
Chairman  
United States Nuclear Regulatory Commission  
1717 H Street, N.W.  
Washington, D.C. 20555

Dear Mr. Zech:

As Chairman of the Senate Labor and Human Resources Committee, I will be holding a hearing in Plymouth, Massachusetts on the evening of January 7, 1988 concerning the proposed restart of the Pilgrim Nuclear Power Station and its potential impact on the public health.

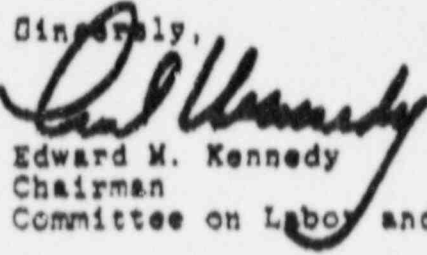
The Committee on Labor and Human Resources has oversight responsibility for public health issues. I believe the upcoming decision on the Pilgrim restart could possibly have dramatic implications concerning the health of my constituents in Massachusetts.

As Chairman of the Nuclear Regulatory Commission, you are uniquely qualified to speak for the Commission concerning the decision-making process on the restart question. Therefore, your testimony will be an essential component of the hearing.

In the event you are unable to participate on January 7th, please designate the appropriate NRC representative(s) for an appearance before the Committee that evening. Specifically, the Committee is interested in hearing testimony from the NRC with regard to the rules, regulations, standards and criteria it would apply during consideration of a Pilgrim restart request.

Members of my staff will be available to meet with NRC officials prior to the hearing to provide the Commission with additional details. Since the hearing is scheduled for early January, I would appreciate your timely response to this request.

Thank you for your assistance, and I look forward to seeing you in Plymouth.

Sincerely,  
  
Edward M. Kennedy  
Chairman  
Committee on Labor and Human Resources

88-107-444  
(p)

N/24



October 20, 1987

NOTE TO: Dick Wessman, NRR  
Bill Paton, OGC

FROM: Mike Blume, OGC

SUBJECT: MASSPIRG v. NRC (PILGRIM 1ST CIRCUIT CASE)

Enclosed is a first cut of what is known as a "Certified Index of the Record," to be submitted to the Court of Appeals on November 10, 1987. The "Record" in this case is what was placed before the Agency by the petitioners, and whatever else the Agency relied upon. The attached list -- the "Certified Index" -- is a complete listing of all documents enclosed with or cited by the Petition and the Director's Decision. The advantage of the certified index is that we don't have to burden the Court with unnecessary documents. Unfortunately, though, the Commission Secretary, who will certify to the Court that the index represents the record, must have all of the documents that are listed. Accordingly, I'm requesting that you go over the list, and provide to me ASAP, copies of all of the listed documents that we have. Please note for me which ones we do not have. To the extent we don't have them, it's probably safe to assume that we didn't consider them or rely upon them, and thus they'll be deleted from the list. Also, please add to the list (and provide to me) any documents that we considered or relied upon, but which were not cited.

Many thanks for your continuing assistance!

Enclosure: As stated

~~881413412~~  
(14pp)

OGC

Document Name:  
CERT. RECORD

Requestor's ID:  
WOHL

Author's Name:  
Lessler

Document Comments:  
Pilgrim Nuclear Station - Certified Index

Destination Name:  
WOHL

Distribution Name:  
NRCOCA\_LESSLER\_0032

Addressee:  
Marilyn Wohl, PDI-3, Rm 116, x27831

Date Sent:  
10/20/87

Time Sent:  
13:57

Message:  
Please deliver to Dick Wessman from Mike Blume, OGC (x41493).

Thanks, Linda Lessler



UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BOSTON ELECTRIC COMPANY  
(Pilgrim I Nuclear Power Station)

Docket No. 50-293  
(2.206 Request)

CERTIFIED INDEX

| <u>Date Docketed<br/>Office of the<br/>Secretary</u> | <u>Date of<br/>Document</u> | <u>Title or Description<br/>of Document</u>  |
|--|-----------------------------|--|
|  | 11/9/71                     | Task Force Review, Bypass Effects in GE Pressure Suppression Containment   |
|  | 12/1/71                     | Task Force Review, Bypass Effects in GE Pressure Suppression Containment   |
|  | 9/20/72                     | AEC internal report by Stephen H. Hanauer, raising seven concerns centering on the viability of the pressure-suppression containment concept |
|  | 9/25/72                     | Memo from Joseph M. Hendrie to John F. O'Leary, Re: acceptance of pressure-suppression containment concept                                   |
|  | 1/15/73                     | Memo from S. H. Hanauer to E. J. Bloch, Re: Bypass Paths on BWR Pressure Suppression Containment   |
|  | 1975                        | Manual of Protective Action Guides and Protective Actions for Nuclear Accidents, EPA-520/1-75-001, EPA                                       |
|  | 2/75                        | Letter from NRC to all utilities owning BWR facilities with Mark I design containments   |
|  | 4/75                        | Letter from NRC to all utilities owning BWR facilities with Mark I design containments   |

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|---|---------------------|--|
|   | 1976                | ANSI Standard 18 7-1976, Section 5.2.6,<br>Equipment Control   |
|   | 1977                | Study published by Massachusetts Public<br>Interest Research Group entitled<br>"Nuclear Evacuation Planning:<br>Blueprint for Chaos"   |
|   | 6/20/78             | Memo from Dr. Hanauer to Dr. Hendrie,<br>quoting from NUREG-0474   |
|   | 7/78                | NUREG-0474, "A Technical Update on<br>Pressure Suppression Type<br>Containments in Use in U.S. Light<br>Water Reactor Nuclear Power Plants"  |
|   | 12/78               | Union of Concerned Scientists, "An<br>Analysis of Chairman Hendrie's<br>Response to Senator Hart's Letter of<br>June 15, 1978"   |
|   | 1980                | IE Bulletin 80-10, "Contamination of<br>Nonradioactive System and Resulting<br>Potential for Unmonitored/Uncontrolled<br>Release to the Environment"                                 |
|   | 7/80                | NUREG-0661, "Mark I Containment Long<br>Term Program Safety Evaluation<br>Report"  |
|   | 8/19/80             | 45 Fed. Reg. 55402   |
|   | 11/80               | NUREG-0654/FEMA-REP-1, Rev. 1,<br>"Criteria for Preparation and<br>Evaluation of Radiological Emergency<br>Response Plans and Preparedness in<br>Support of Nuclear Power Plants"    |
|   | 1981                | SALP Report  |
|   | 7/20/81             | Response of Boston Edison Co. to<br>Commonwealth of Massachusetts' First<br>Set of Interrogatories on Emergency<br>Planning  |
|   | 1982                | Cover letter from Richard C. Young,<br>Director, Office of Inspection and<br>Enforcement, NRC to BECo, with NRC<br>50-293/EA 81-63, Order Modifying<br>License Effective Immediately |

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|---|---------------------|---|
|   | 1982                | SALP Report   |
|   | 1982                | Civil Penalty and Order re: Modifying<br>the Pilgrim License  |
|   | 8/82                | Comments of Attorney General Francis X.<br>Bellotti Relative to Off-Site<br>Emergency Planning for the Pilgrim<br>Nuclear Power Station, submitted to<br>FEMA   |
|   | 9/29/82             | Report issued by Federal Emergency<br>Management Agency, Region I entitled:<br>"Joint State and Local Radiological<br>Emergency Response Capabilities for<br>the Pilgrim Power Station, Plymouth,<br>Massachusetts" |
|   | 10/27/82            | Plant Unique Analysis Report (PUAR) of<br>the Suppression Chamber - Mark I<br>Containment Long Term (TR-5310-1)   |
|   | 1983                | Updated study published by<br>Massachusetts Public Interest<br>Research Group entitled "Blueprint<br>for Chaos II: Pilgrim Disaster Plans<br>Still a Disaster"  |
|   | 1/83                | Report on the Pilgrim Nuclear Power<br>Station Siren Test, FEMA   |
|   | 1983                | MASSPIRG study of two hospital (Jordan<br>Hospital, Plymouth, and Morton<br>Hospital, Taunton)  |
|   | 10/26/83            | Plant Unique Analysis Report (PUAR) of<br>the Torus Attached Piping - Mark I<br>Containment Long Term Program<br>(TR-5310-2)  |
|   | 1984                | SALP Report 50-293/84-34  |
|   | 1985                | SALP Report   |
|   | 1985                | NRC Inspection Report 50-293/85-13  |
|   | 1985                | NRC Inspection Report 50-293/85-22  |

| Date Docketed<br>Office of the<br>Secretary | Date of<br>Document | Title<br>of Document  |
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|   | 1985                | Notice of Violation (Inspection Report 50-293/85-32, cover letter from Thomas Martin, Director, Division of Radiation Safety and Safeguards, and Appendix A, Notice of Violation) |
|   | 1985                | LER No. 85-26   |
|   | 1985                | Inspection number 85-24 (revealed security level III violation)   |
|   | 1/25/85             | Quality Assurance Surveillance, 85-1.2-1  |
|   | 1/30/85             | NRC staff issued Safety Evaluation Report   |
|   | 4/85                | Report by Stone & Webster (predicted Pilgrim facility's waste would contain about 1024 curies that year)  |
|   | 7/85                | NUREG-0956, "Reassessment of the Technical Bases for Estimating Source Terms"   |
|   | 7/12/85             | Nuclear Operations Manager (NOM) Memorandum, M85-137, Control and Verification of Operating Actions   |
|   | 8/8/85              | 50 Fed. Reg. 32138, "Policy Statement on Severe Reactor Accidents Regarding Future Designs and Existing Plants"   |
|   | 10/85               | Letter from FEMA to MCDA, outlining FEMA concerns   |
|   | 1/86                | Letter from FEMA to MCDA, outlining FEMA concerns   |
|   | 1/86                | Steven Sholly and Dr. Gordon Thompson, "The Source Term Debate," Union of Concerned Scientists  |
|   | 2/18/86             | SALP Report No. 50-293/85-99  |
|   | 2/21/86             | IE Information Notice No. 86-13   |
|   | 4/2/86              | Special NRC Inspection Report 50-293/86-06  |

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|---|---------------------|---|
|   | 4/12/86             | Confirmatory Action Letter (CAL) 86-10,<br>issued by Region I Administrator   |
|   | 5/21/86             | Article, <u>Boston Globe</u> , re: NRC<br>Commissioners ordering the Pilgrim<br>facility to remain shut down<br>temporarily because of safety<br>problems |
|   | 5/22/86             | Statement of James Asselstine before<br>the Subcommittee on Energy,<br>Conservation and Power   |
|   | 5/23/85             | Statement of NRC Commissioners at<br>hearing before U.S. House<br>Subcommittee on Energy Conservation<br>and Power, <u>Boston Globe</u>                   |
|   | 5/28/86             | Telephone Interview with James<br>Asselstine, <u>Boston Globe</u>   |
|   | 6/86                | NUREG/CR-4594, "Estimated Safety<br>Significance of Generic Issue 6i"   |
|   | 6/6/86              | MCDA response to FEMA's October, 1985<br>letter   |
|   | 6/9/86              | Statement of Harold Denton, Director,<br>Nuclear Reactor Regulation, quoted in<br><u>Inside NRC</u> , Vol. 8, No. 12                                      |
|   | 6/18/86             | Article, <u>Boston Globe</u> , (example of<br>BECO's failure to insure proper<br>surveillance)  |
|   | 6/18/86             | Testimony of Edward A. Thomas, Division<br>Chief, Natural and Technological<br>Hazards, FEMA, before Massachusetts<br>State legislators                   |
|   | 6/18/86             | Statement of Mr. Lubering, Deputy<br>Director of the Massachusetts Civil<br>Defense Agency, before Massachusetts<br>legislators                           |
|   | 6/21/86             | Joseph M. Hendrie, Letter to the<br>editor, <u>New York Times</u> , concerning<br>review issues in the GE containments                                    |

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|   | 6/24/86             | Article, <u>Boston Globe</u>   |
|   | 6/26/86             | Massachusetts Department of Public Utilities report  |
|   | 6/27/86             | Excerpts of Massachusetts Department of Public Utilities Report, <u>Boston Globe</u>   |
|   | 6/28/86             | Statements by FEMA and MCDA officials, <u>Patriot Ledger</u>   |
|   | 7/9/86              | Statement of James Asselstine, <u>Patriot Ledger</u>   |
|   | 7/15/86             | Petition for Show Cause Concerning Pilgrim I Nuclear Power Station   |
|   | 8/27/86             | Letter from Murley, Region I, NRC to J. Lydon, BECo re: CAL 86-10  |
|   | 12/86               | Report issued by the Office of Public Safety of the Commonwealth of Massachusetts entitled "Report to the Governor on Emergency Preparedness for an Accident at the Pilgrim Nuclear Power Station" |
|   | 12/19/86            | Letter from James M. Taylor, Director, Office of Inspection and Enforcement to Senator Golden  |
|   | 1/87                | Report prepared by Impell Corporation for BECo entitled "Evaluation of Offsite Emergency Preparedness in Area Surrounding the Pilgrim Nuclear Power Station"                                       |
|   | 2/20/87             | Letter from Thomas Murley, Regional Administrator, NRC Region I to Senator Golden re: Delay of Meeting with Petitioners  |
|   | 3/31/87             | Memorandum from FEMA to NRC re: FEMA's conduct of a self-initiated review of the overall state of emergency preparedness at Pilgrim Station  |



| Date Docketed<br>Office of the<br>Secretary | Date of<br>Document | Title<br>of Document   |
|---|---------------------|--|
|   | 4/1/87              | Letter from Thomas E. Murley, Regional Administrator, NRC Region I to Senator Golden re: Meeting between NRC and Petitioners   |
|   | 4/29/87             | Memorandum from the NRC to FEMA, with attached copy of March 1987 report by the Town of Plymouth Nuclear Committee entitled "Report to the Selectmen on the Plymouth Radiological Emergency Response Plan"                                 |
|   | 4/30/87             | Letter from S. Varga, NRC to R. Bird, BECo re: Request that licensee provide details of modifications and procedural changes   |
|   | 5/26/87             | Article, <u>Boston Globe</u> , re: pressure suppression systems at Chernobyl and Pilgrim   |
|   | 6/4/87              | Reports prepared by BECo re: Evacuation Time Estimates and Beach Population Sheltering, Mobility Impaired, and Special Facilities  |
|   | 6/12/87             | Report by BECo re: A Northern Reception Center   |
|   | 6/17/87             | Final SALP Report No. 86-99 (initially issued 4/8/87)  |
|   | 7/29/87             | FEMA Analysis of the issues raised in the subject petition entitled "Analysis of Emergency Preparedness Issues at Pilgrim Nuclear Power Station Raised in a Petition to the NRC Dated July 15, 1986" (Attachment A to Director's Decision) |
|   | 7/30/87             | Report submitted by BECo entitled "Pilgrim Nuclear Power Station Restart Plan"   |
|   | 8/87                | NUREG-1251, "Implications of the Accident at Chernobyl for Safety Regulation of Commercial Nuclear Power Plants in the United States"  |

| Date Docketed<br>Office of the<br>Secretary | Date of<br>Document | Title<br>of Document   |
|---|---------------------|--|
|   | 8/4/87              | Report from FEMA entitled<br>"Self-Initiated Review and Interim<br>Finding for the Pilgrim Nuclear Power<br>Station"   |
|   | 8/5/87              | Report submitted by MASSPIRG entitled<br>"Health Surveillance of the Pilgrim<br>Area" as addendum to the Petition  |
|   | 8/6/87              | Letter from FEMA to the NRC forwarding<br>8/4/87 FEMA report entitled<br>"Self-Initiated Review and Interim<br>Finding for the Pilgrim Nuclear Power<br>Station, Plymouth, MA" |
|   | 8/21/87             | Interim Director's Decision 87-14  |
|   | Undated             | Brief description of the Pilgrim Mark I<br>Containment Design  |
|   | Undated             | Enclosure A to NUREG-0474, "Summary of<br>NRC Staff Actions Related to the<br>Technical Issues Identified in<br>Dr. Hanauer's Memorandum of<br>September 20, 1972              |
|   | Undated             | Pilgrim Station Regulatory Performance<br>History  |
|   | Undated             | NUREG-0713 and 0714 "Occupational<br>Radiation Exposure at Commercial<br>Nuclear Power Reactors"   |
|   | Undated             | Updated survey by the Special<br>Legislative Commission on Low Level<br>Radioactive Waste  |
|   | Undated             | Deficiency Report (DR) No. 1384  |
|   | Undated             | 51 Fed. Reg. 29728   |
|   | Undated             | NRC's Standard Review Plan   |
|   | Undated             | WASH 1400 (Reactor Safety Study)   |
|   | Undated             | The Reactor Risk Reference Document -<br>Draft (NUREG-1150)  |
|   | Undated             | NUREG-1250, "Report on the Accident at<br>the Chernobyl Nuclear Power Station"   |