

May 10, 1988

Docket No.: 50-293

Mr. Ralph G. Bird  
Senior Vice President - Nuclear  
Boston Edison Company  
800 Boylston Street  
Boston, Massachusetts 02199

SUBJECT: ISSUANCE OF AMENDMENT NO. 116 TO FACILITY OPERATING LICENSE NO.  
DPR-35 (TAC# 66974) PILGRIM NUCLEAR POWER STATION

Dear Mr. Bird:

The Commission has issued the enclosed Amendment No. 116 to Facility Operating License No. DPR-35 for the Pilgrim Nuclear Power Station. This amendment consists of changes to the Technical Specifications in response to your application incorrectly dated January 14, 1987 (actual date January 14, 1988).

This amendment modifies the Technical Specification 6.9.C.1 regarding the required date for submittal of the supplemental dose assessment and meteorological summary information and administrative corrections.

A copy of our Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

15/

Daniel G. McDonald, Senior Project Manager  
Project Directorate I-3  
Division of Reactor Projects I/II

Enclosures:

- 1. Amendment No. 116 to DPR-35
- 2. Safety Evaluation

cc: w/enclosures:  
See next page

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

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Sincerely,

A handwritten signature in cursive script that reads "Daniel G. McDonald Jr.".

Daniel G. McDonald, Senior Project Manager  
Project Directorate I-3  
Division of Reactor Projects I/II

Enclosures:

1. Amendment No. 116 to DPR-35
2. Safety Evaluation

cc: w/enclosures:  
See next page

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Boston Edison Company

Pilgrim Nuclear Power Station

cc:

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AMENDMENT NO. 116 TO FACILITY OPERATING LICENSE DPR-35-  
PILGRIM NUCLEAR POWER STATION

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

BOSTON EDISON COMPANY

DOCKET NO. 50-293

PILGRIM NUCLEAR POWER STATION

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 116  
License No. DPR-35

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Boston Edison Company (the licensee) dated January 14, 1988 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 3.B of Facility Operating License No. DPR-35 is hereby amended to read as follows:

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PDR

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 116 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard H. Wessman, Director  
Project Directorate I-3  
Division of Reactor Projects I/II

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 10, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 116  
FACILITY OPERATING LICENSE NO. DPR-35  
DOCKET NO. 50-293

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change. The corresponding overleaf pages are provided to maintain document completeness.

<u>Remove Pages</u>	<u>Insert Pages</u>
223	223
223a	----

6.9.C. Unique Reporting Requirements

1. Semi-Annual Radioactive Effluent Release Report

- a. Routine radioactive effluent release reports covering the operation of the unit during the previous 6 months of operation shall be submitted within 60 days after January 1 and July 1 of each year. The report should be in accordance with Appendix B of Regulatory Guide 1.21 (Revision 1) dated June, 1974. A supplemental report containing dose assessments for the previous year shall be submitted annually within 90 days after January 1.
- b. Any changes to the Offsite Dose Calculation Manual (ODCM) shall be submitted to the Commission in the Semi-Annual Radioactive Effluent Release Report.

2. Annual Radiological Environmental Monitoring Report

A report on the radiological environmental surveillance program for the previous calendar year of operation shall be submitted to the Commission prior to May 1 of the year. The reports shall include summaries, interpretations, and statistical evaluation of the results of the radiological environmental surveillance activities for the report period, operational controls and previous environmental surveillance reports, and an assessment of the observed impacts of the plant operation on the environment. The reports shall also include the results of any land use surveys which affect the choice of sample locations. If harmful effects or evidence of irreversible damage are detected by the monitoring, the licensee shall provide an analysis of the problem and a proposed course of action to alleviate the problem.

The Annual Radiological Environmental Monitoring Report shall include a summary of the results of analysis of all radiological environmental samples and of all environmental radiation measurements taken during the period pursuant to the locations specified in the table and figures in the Offsite Dose Calculation Manual (ODCM) as well as summarized and tabulated results of these analyses and measurements in the format of the table in the Radiological Assessment Branch Technical Position, Revision 1, November 1979.

In the event that some results are not available prior to May 1 of the year, the report shall be submitted, noting and explaining the reasons for the missing results. The missing data shall be submitted as soon as possible in a supplementary report.

The report shall also include the following: a summary description of the radiological environmental monitoring program; at least two legible maps<sup>1</sup> covering all sampling locations keyed to a table giving distances and directions from the centerline of the reactor; discussion of all deviations from the sampling schedule of Table 8.1-1; and discussion of all analyses in which the lower limits of detection (LLD) required by Table 8.1-4 were not achievable.

<sup>1</sup> One map shall cover stations near the site boundary; a second shall include the more distant stations.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 116  
TO FACILITY OPERATING LICENSE NO. DPR-35  
BOSTON EDISON COMPANY  
PILGRIM NUCLEAR POWER STATION  
DOCKET NO. 50-293

1.0 INTRODUCTION

By letter dated January 14, 1988, Boston Edison Company (BECO) the licensee, submitted a request for changes to the Pilgrim Nuclear Power Station Technical Specifications (TS).

The amendment modifies the TS to revise the date for submittal of supplemental dose assessment and meteorological summary information, corrects pagination, section numbers, and titling.

2.0 DISCUSSION

10 CFR 50.36a, Technical Specifications on effluents from nuclear power reactors, requires that a report be submitted within 60 days after January 1 and July 1 of each year specifying the quantity of each of the principal radionuclides released to unrestricted areas in liquid and in gaseous effluents during the previous six months of operation. Submittal of such other information as may be required by the Commission to estimate maximum potential annual radiation doses to the public resulting from the effluent releases is also required.

These requirements are implemented at Pilgrim in TS 6.9.C.1 "Unique Reporting Requirements". The TS provides that the Semi-Annual Radioactive Effluent Release Report (RERR) be submitted to the Commission within 60 days after January 1 and July 1 of each year specifying the quantity of each of the principal radionuclides released at and beyond the site boundary in liquid and gaseous effluents during the previous 6 months. The format and content of the report shall be in accordance with Appendix B of Regulatory Guide 1.21 (Revision 1) dated June, 1974.

In its January 14, 1988 application, the licensee proposes to modify the TS to allow more time for preparation of a supplemental information report containing dose assessments for the previous year. The licensee notes that the dose assessments can only be performed after completion of radionuclide analyses on samples for the previous calendar year. Thus, the analysis and report generation must be completed in a short time during a period when several other reports are required. Within the content of the January report, an annual dose assessment and meteorological report is also required. The type of analyses conducted for these portions of the reports can only be performed by outside contractors using highly sophisticated and sensitive equipment. Difficulties in obtaining timely test results has led to requests for NRC approval of schedular extensions for supplemental reports in past years.

The requested change would modify the TS to allow for the submission of a supplement to the January Semi-Annual Radioactive Effluent Release Report. The supplement would contain the dose and meteorological summary report, and would be required within 90 days of January 1 each year. Except for one instance, when a contract's computer failed, it is the licensee's experience that a 30-day extension will provide the added time necessary for preparing the annual summaries and estimated dose assessments.

A similar request for this type of scheduler change was granted as Amendment 98 to Yankee Nuclear Power Station Technical Specifications on August 20, 1986.

### 3.0 EVALUATION

The RERR submitted after January 1 of each year and the supplemental information is used by the staff to evaluate the dose to the public from the previous year of operation. As noted in Section 6.9.C.1 of the TS, a detailed breakdown of meteorological data and dose calculations are required.

The staff recognized the burden of completing these analyses within the 60 days specified, and granted a similar relief to Yankee Nuclear Power Station by Amendment 98. The staff has determined that some additional time could be granted for preparation of the supplemental information and, therefore, the staff finds the request to submit a supplemental report, within 90 days after January 1 is acceptable.

Additional changes are administrative and consist of renumbering sections and pagination changes for consistency within the TS. One change eliminates a numbering error. The Offsite Dose Calculation Manual (ODCM) is presently listed as section 6.9.C.3, as is "Special Reports" on page 224. The change consists of renumbering the ODCM section to 6.9.C.1.b and retitling section 6.9.C.1 as "Semi-Annual Radioactive Effluent Release Report". Also, on page 223a, the portion of the last paragraph of section 6.9.C.2 "Annual Radiological Environmental Monitoring Report" is being moved to page 223, allowing the elimination of page 223a.

These changes are administrative in nature, reduce confusion within the TS and, therefore, are acceptable.

The staff's proposed no significant hazards consideration published in the FR on February 24, 1988 provided opportunity for public comment of this information.

### 4.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to recordkeeping, reporting or administrative procedures or requirements. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has

previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

#### 5.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

#### 6.0 ACKNOWLEDGEMENT

Principal Contributor: G. Requa

Date: May 10, 1988