

BOSTON EDISON COMPANY
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J. EDWARD HOWARD
VICE PRESIDENT
NUCLEAR

April 3, 1980

BECo. Ltr. #80-56

Mr. Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

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

Supplement 1 to Reload 4 Submittal
and Request for Technical Specification Change

- Reference:
- a. "Generic Reload Fuel Application" NEDE-24011-P-A
July 1979.
 - b. "Supplemental Reload Licensing Submittal for
Pilgrim Nuclear Power Station Unit 1 Reload 4"
NEDO-24224, November 1979
 - c. Reload 4 Submittal and Technical Specification
Changes BECo. Ltr. #79-269 December 12, 1979.
 - d. "Supplement 1 to Supplemental Reload Licensing
Submittal for Pilgrim Nuclear Power Station
Unit 1 Reload 4" NEDo 24224-1 March 1980.

Dear Sir:

On February 29 and March 13, 1980, representatives of Boston Edison Company (BECo) and General Electric (GE) met with members of the NRC staff to describe the indications visually observed on the core spray spargers, to describe the intended course of action and to present the technical justification to support the proposed startup plan.

Analysis (Reference d.) documents the information presented at the above meetings to support operation of the plant with the reported core spray sparger indications. These analyses are submitted for your review in order to: 1) establish continued structural integrity of the core spray spargers for all modes of operation, 2) present the results of the LOCA analyses assuming no credit for core spray heat transfer credit and 3) describe the possible consequences of a potential loose part.

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Mr. Thomas A. Ippolito, Chief
April 3, 1980
Page 2

Applicable changes to Appendix A (Technical Specifications) to Facility Operating License (No. DPR-35) are also submitted for your review, approval and issuance pursuant to Section 50 of Title 10, Code of Federal Regulations.

Proposed Change

Reference is made to PNPS Technical Specification 3.11A in which individual curves of limiting APLHGR values are proposed for each fuel type in the Cycle 5 core.

Reason for the Change

Recently discovered indications in the core spray spargers may prevent proper distribution of core spray. The operating limit MAPLHGRs have been revised to ensure LOCA limits will not be exceeded.

Safety Considerations

The LOCA analysis have been previously performed for each fuel type in the Cycle 5 core. These values are contained in NEDO-24224 (Submitted as part of the Reload 4 submittal). The present values were obtained by multiplying the previous MAPLHGRs by factors given in NEDO-24224-1 which were derived from LOCA analyses with no credit for core spray heat transfer. The calculations were performed using approved versions of the GE LOCA codes. Based on these calculations, operations within the proposed MAPLHGRs will not exceed 10CFR50 Appendix K limits.

Conclusions

Based on the evaluation presented herein and the contents and analyses presented in Reference a., b., c., and d., it can be concluded that there is reasonable assurance that the health and safety of the public will not be endangered by operation of the Pilgrim Nuclear Power Station, Unit #1 following Reload No. 4.

This proposed amendment has been reviewed and approved by the Operations Review Committee and reviewed by the Nuclear Safety Review and Audit Committee.

Schedule

The Boston Edison Company tentatively plans to conclude the refueling outage for Pilgrim I on or about May 1, 1980. Therefore, an expeditious review and approval of this submittal is requested.

Fee Consideration

No further license fee amendment classification is proposed, as this application serves as a supplement to a previous License Amendment request still under review by the Commission.

Mr. Thomas A. Ippolito, Chief
April 3, 1980
Page 3

Should there be any questions regarding this submittal, please contact us.

Very truly yours,

J. Edward Howard

3 signed originals and 40 copies

Attachments - (1) Proposed Changes to Appendix A
(Technical Specifications)

(2) NEDO 24224-1, March, 1980

Commonwealth of Massachusetts)
County of Suffolk)

Then personally appeared before me J. Edward Howard, who, being duly sworn, did state that he is Vice President - Nuclear of Boston Edison Company, the applicant herein, and that he is duly authorized to execute and file the submittal contained herein in the name and on behalf of Boston Edison Company and that the statements in said submittal are true to the best of his knowledge and belief.

My Commission expires: *July 6, 1984*

Dorothy M. Lopez
Notary Public