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NUCLEAR REGULATORY COMMISSION

50-293

WASHINGTON, D.C. 20555-0001

June 30, 1997

Mr. E. Thomas Boulette, Ph.D Senior Vice Fresident - muclear Boston Edison Company Pilgrim Nuclear Power Station RFD #1 Rocky Hill Road Plymouth, MA 02360

SUBJECT: REQUEST TO CREDIT CONTAINMENT OVERPRESSURE TO SATISFY NET POSITIVE

SUCTION HEAD (NPSH) REQUIREMENTS, AND SUBSEQUENT DEFERRAL OF REVIEW REQUEST BASED ON 10 CFR 50.59 EVALUATION - PILGRIM NUCLEAR POWER

STATION (TAC NO. M97789)

Dear Mr. Boulette:

By letters dated January 20 and January 30, 1997, the Boston Edison Company (BECo/the licensee) submitted an amendment request for the Pilgrim Nuclear Power Station (PNPS). The licensee requested to update the Updated Final Safety Analysis Report (UFSAR) to credit containment overpressure to satisfy Emergency Core Cooling System (ECCS) pump NPSH requirements, and also requested approval of revised containment pressure and suppression pool temperature analyses for an increased ultimate heat sink temperature of 75 °F, versus the current 65 °F. The NRC staff had determined that the licensee's need for containment overpressure constituted an Unreviewed Safety Question (USQ) and approval of the amendment request was needed to support plant startup.

The licensee subsequently determined that because of the reduced head losses associated with new ECCS suction strainers installed during the refueling outage 11, credit for containment overpressure, assuming a 65 °F ultimate heat sink temperature, is no longer necessary to satisfy low-pressure coolant injection and core spray pump NPSH requirements. By letter dated April 11, 1997, the licensee submitted a 10 CFR 50.59 safety evaluation supporting this conclusion and committed to enter a "loss of containment cooling" limiting condition for operation when the ultimate heat sink temperature exceeds 65 °F. By letter dated June 20, 1997, BECo revised the above commitment by changing the administrative limit from 65 °F to 68 °F. BECo has performed analysis using a 68 °F seawater temperature and determined that credit for containment overpressure is not needed at this temperature. While we have not been able to perform an in depth review of your June 20, 1997, submittal the 10 CFR 50.59 safety evaluation appears to be consistent with the plant's licensing basis. We acknowledge that BECo has concluded that overpressure is not necessary to satisfy NPSH requirements at 68 °F or less and that the change of the administrative limit on service water temperature has been implemented.

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If you have any questions in this matter, please contact Mr. Alan Wang at (301) 415-1445.

Sincerely,

Original signed by

Patrick D. Milano, Acting Director Project Directorate I-3 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

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cc: See next page

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E. Thomas Boulette

cc:

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