



BOSTON EDISON

Pilgrim Nuclear Power Station
R.L.cky Hill Road
Plymouth, Massachusetts 02360

Ralph G. Bird
Senior Vice President — Nuclear

October 6, 1988
BECO 88-144

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

License DPR-35
Docket 50-293

NRC BULLETIN 88-08 AND SUPPLEMENTS 1 AND 2:
THERMAL STRESSES IN PIPING CONNECTED TO THE REACTOR COOLANT SYSTEMS

Dear Sir:

Bulletin 88-08 requested licensees to review their reactor coolant systems (RCSs) to identify connected unisolable piping that could be subjected to temperature oscillations from leaking valves which would result in unacceptable thermal stresses. If an unisolable piping connection is identified, licensees were requested to take appropriate actions to ensure that the piping will not be subjected to unacceptable thermal stresses.

The Bulletin also requested a letter confirming that the requested actions have been completed and a description of the results of the review. This letter provides Boston Edison Company's response to that request.

Upon receipt of NRC Bulletin 88-08, Boston Edison reviewed systems connected to the RCS to determine whether unisolable sections of piping can be subjected to stresses from temperature stratification or temperature oscillations that could be induced by leaking valves and that were not evaluated in the design analysis of the piping. The review identified all connections to the reactor vessel from the vessel nozzle to the first valve capable of providing isolation, including all branch connections and small bore piping.

Our review concluded that the design of Pilgrim Station does not contain any normally isolated cold water systems connected to the RCS that are continuously pressurized to a level above the RCS normal operating pressure.

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BOSTON EDISON COMPANY

October 6, 1988

U. S. Nuclear Regulatory Commission

Page 2

Thus it is not possible for any potentially leaking isolation valves to allow cold water to be injected into the RCS and cause thermal cycling fatigue in unisolable RCS piping. Therefore, the concerns of NRCB 88-08 do not apply to Pilgrim Station. This review was completed on September 9, 1988.


R. G. Bird

WGL/amm/2457

Commonwealth of Massachusetts)
County of Plymouth)

Then personally appeared before me, Ralph G. Bird, who being duly sworn, did state that he is Senior Vice President - Nuclear of Boston Edison Company 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:

April 3, 1992
DATE

Marie Schubert
NOTARY PUBLIC

cc: See next page

cc: Mr. D. McDonald, Project Manager
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