

APR 14 1994

Docket No. 50-293

E. Thomas Boulette, PhD
Senior Vice President - Nuclear
Boston Edison Company
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, Massachusetts 02360-5599

Dear Dr. Boulette:

SUBJECT: INSPECTION REPORT NUMBER 50-293/93-22

This letter refers to the safety inspection conducted by Mr. Peter Drysdale and others of this office from December 13 to 17, 1993, and March 22 to 25, 1994, at the Pilgrim Nuclear Power Station. The inspectors reviewed the programs being implemented in response to NRC Generic Letter (GL) 89-10, "Safety-Related Motor-Operated Valve Testing and Surveillance." At the conclusion of the onsite inspection, the preliminary results were discussed with you and members of your staff on March 25, 1994.

In general, we found considerable progress in your motor-operated valve (MOV) program since the initial NRC team inspection of this area in March 1992. Findings from that team inspection have since been satisfactorily addressed, design calculations have been appropriately derived, and the development of your MOV trending program is notable. Based upon your program's progress, it is apparent that you are currently on schedule to meet the completion date of April 1997, as committed under Generic Letter 89-10.

As a result of the initial onsite inspection, a management meeting was held in the NRC Region I office on February 17, 1994, to review design capability issues for two MOVs in your Generic Letter 89-10 program. The valves are currently set up with thrust and torque outputs higher than those to which they were originally qualified by the valve actuator's manufacturer. Your analysis provides reasonable assurance for continued operation of the two MOVs in question for the remainder of the current plant operating cycle (until April 1995) because of the relatively low number of valve cycles anticipated and the design margin that exists with respect to structural capability of the valve actuators. However, we are not endorsing the analysis method as being generally applicable for larger (more closely prescribed) numbers of cycles because of the limited amount of test information and the relative rigor with which it was developed.

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APR 14 1994

E. Thomas Boulette, PhD

2

The NRC anticipates that you will continue your efforts to procure replacement MOVs by the mid-cycle maintenance outage in October 1994. In the event that replacement in October 1994 is not possible, we encourage you to develop a contingency plan to perform a comprehensive inspection of the actuators.

No response to this letter is required. Your cooperation with us in this matter is appreciated.

Sincerely,

Original Signed By:

Marvin W. Hodges, Director
Division of Reactor Safety

Enclosure: NRC Region I Inspection Report No. 50-293/93-22

APR 14 1994

E. Thomas Boulton, PhD

3

cc w/encl:

E. Kraft, Vice President, Nuclear Operations and Station Director

L. Schmeling, Plant Department Manager

R. Fairbank, Manager, Regulatory Affairs and Emergency Planning Department

D. Tarantino, Nuclear Information Manager

G. Basileco, Acting Compliance Division Manager

R. Hallisey, Department of Public Health, Commonwealth of Massachusetts

R. Adams, Department of Labor and Industries, Commonwealth of Massachusetts

The Honorable Edward M. Kennedy

The Honorable John F. Kerry

The Honorable Edward J. Markey

The Honorable Terese Murray

The Honorable Peter V. Forman

B. Abbanat, Department of Public Utilities

Chairman, Plymouth Board of Selectmen

Chairman, Duxbury Board of Selectmen

Plymouth Civil Defense Director

Paul W. Gromer, Massachusetts Secretary of Energy Resources

Sarah Woodhouse, Legislative Assistant

A. Noguee, MASSPIRG

Regional Administrator, FEMA

Office of the Commissioner, Massachusetts Department of Environmental Quality
Engineering

Office of the Attorney General, Commonwealth of Massachusetts

T. Rapone, Massachusetts Executive Office of Public Safety

Chairman, Citizens Urging Responsible Energy

Public Document Room (PDR)

Local Public Document Room (LPDR)

Nuclear Safety Information Center (NSIC)

K. Abraham, PAO (2)

NRC Resident Inspector

Commonwealth of Massachusetts, SLO Designee

APR 4 1994

E. Thomas Boulette, PhD

4

bcc w/encl:

Region I Docket Room (with concurrences)

R. Conte, DRP

J. Shedlosky, DRP

M. Shannon, ILPB

T. Scarbrough, Sr. Mechanical Engineer, NRR

A. Trusty, NRC Consultant, INEL

M. Oprendeck, DRP

bcc w/encl (VIA E-MAIL):

W. Butler, NRR

R. Eaton, NRR

J. Tatum, OEDO

C. Castro, RII

J. Jacobson, RIII

T. Westerman, RIV

*Extensive input & comments
during March 94*

AMK
HQ:NRR
Norberg/dmg

4/ /94

AMK
RI:DRS
Drysdale

4/14/94

AMK
RI:DRS
Kbly

4/13/94

RI:DRP (cover ltr & summary
Linville in parallel)

4/ /94

RI:DRS
Hodges
mm

4/14/94