

June 13, 1984

Docket No. 50-293

Mr. William D. Harrington  
Senior Vice President, Nuclear  
Boston Edison Company  
800 Boylston Street  
Boston, Massachusetts 02199

Dear Mr. Harrington:

SUBJECT: PLANT SPECIFIC ANALYSIS TO DETERMINE GAS AND WATER  
CLEARING THRUST LOADS ASSOCIATED WITH SECOND SRV  
ACTUATIONS IN RELIEF VALVE DISCHARGE LINES

Re: Pilgrim Nuclear Power Station, Unit 1

One of the issues to be resolved related to the Mark I Containment Long Term Program (LTP) was whether following the initial safety relief valve (SRV) actuation, sufficient time for the water leg to stabilize exists prior to a second actuation. To satisfy the acceptance criteria in NUREG-0661 "Mark I Containment Long Term Program" related to water clearing thrust loads in the relief valve discharge lines, associated with second SRV actuations, some licensees have made system logic changes to reduce these loads. The logic changes used include various combinations of lower SRV opening and closing setpoints and lower reactor vessel water level prior to main steam isolation valve (MSIV) closure.

We have recently become aware that at least one licensee has determined that these logic changes to reduce thrust loads, that it had previously intended to make, were no longer needed. A revised analysis performed by General Electric utilizing a methodology not approved in NUREG-0661 provided the basis for the licensee's decision. Since the methodology utilized appears to deviate from the methodology found acceptable by the staff, this letter is being sent to all BWR licensees that have Mark I containments that have not made setpoint logic changes to reduce water clearing thrust loads associated with second SRV actuations.

Within 45 days of receipt of this letter it is requested that you notify us if any analyses were performed utilizing methodology not previously approved in NUREG-0661 in determining if setpoint logic changes were needed to reduce water clearing thrust loads associated with second SRV actuations. In addition identify if any credit for operator action is required to prevent or reduce the thrust loads associated with second actuations of SRVs and if so, the kind of action and how long after event initiation the action is required.

8406250165 840513  
PDR ADOCK 05000293  
P PDR

Mr. William D. Harrington

- 2 -

This request for information was approved by the Office of Management and Budget under clearance number 3150-0091 which expires October 31, 1985.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

cc: See next page

DISTRIBUTION

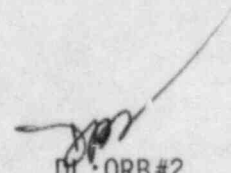
Docket File

NRC PDR  
Local PDR  
ORB#2 Reading  
DEisenhut  
OELD  
SNorris  
PLeech  
BSiegel  
ELJordan  
JNGrace  
ACRS (10)  
Gray File  
FEltawila

DL:ORB#2  
SNorris:ajs  
06/11/84

DL:ORB#2  
PLeech  
06/11/84

DL:ORB#2  
BSiegel  
06/11/84

  
DL:ORB#2  
DVassallo  
06/13/84

Mr. William D. Harrington  
Boston Edison Company  
Pilgrim Nuclear Power Station

cc:

Mr. Charles J. Mathis, Station Mgr.  
Boston Edison Company  
RFD #1, Rocky Hill Road  
Plymouth, Massachusetts 02360

Resident Inspector's Office  
U. S. Nuclear Regulatory Commission  
Post Office Box 867  
Plymouth, Massachusetts 02360

Mr. David F. Tarantino  
Chairman, Board of Selectman  
11 Lincoln Street  
Plymouth, Massachusetts 02360

Water Quality and  
Environmental Commissioner  
Department of Environmental  
Quality Engineering  
100 Cambridge Street  
Boston, Massachusetts 02202

Office of the Attorney General  
1 Ashburton Place  
19th Floor  
Boston, Massachusetts 02108

U. S. Environmental Protection  
Agency  
Region I Office  
Regional Radiation Representative  
JFK Federal Building  
Boston, Massachusetts 02203

Mr. Robert M. Hallisey, Director  
Radiation Control Program  
Massachusetts Department of  
Public Health  
600 Washington Street, Room 770  
Boston, Massachusetts 02111

Thomas A. Murley  
Regional Administrator  
Region I Office  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Mr. A. Victor Morisi  
Boston Edison Company  
25 Braintree Hill Park  
Rockdale Street  
Braintree, Massachusetts 02184