

**BOSTON EDISON COMPANY**  
GENERAL OFFICES 800 BOYLSTON STREET  
BOSTON, MASSACHUSETTS 02199

August 28, 1979

G. CARL ANDRONINI  
SUPERINTENDENT  
NUCLEAR OPERATIONS DEPARTMENT

BECO. Ltr. #79-171

Mr. D. Eisenhower, Director  
Division of Operating Reactors  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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

Environmental Qualification  
of Class IE Equipment  
Reporting of Unqualified Equipment

Reference: (a) IE Bulletin 79-01  
(b) IE Bulletin 79-01A

Dear Sir:

Pursuant to the reporting requirements of References (a) and (b), this letter serves to inform you of the identification of certain electrical equipment at Boston Edison's Pilgrim Station Unit #1, which, based upon the location of the equipment, has been identified as unqualified for the service intended.

The suspect devices are ASCO solenoid valves (Model HT 8320A22) whose safety related function is to de-energize to a fail-safe state, initiating a primary containment isolation of drywell floor and equipment drain sump effluent lines. The valves providing isolation, (AO's 7011A&B and 7017A&B) are all located outside primary containment in the torus compartment.

Boston Edison Company has reviewed the environmental functional limitations of the currently installed solenoid valves with "ASCO" and has identified a situation where potential failure of the solenoid valve internal elastomer materials could occur. This failure would be due to the total integrated doses that are anticipated within the torus compartment following a LOCA incident. The solenoid valve, in this mechanically-failed condition, could possibly reapply instrument air to the isolation valves, causing them to open.

Continued plant operation is justified on the basis that alternate controls and isolation equipment are readily accessible to adequately isolate drywell sump effluent lines. In addition, any leakage that might carry over prior to the implementation of alternate isolation methods would be contained in a Radiation Waste Process Building, which is designed to process the liquid waste material. Also, any resultant plant airborne activity would be immediately detected thereby notifying the operator of this situation.

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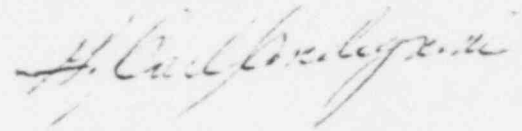
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Boston Edison has qualified replacement solenoid valves on order; however, due to the industry-wide demand, we do not expect delivery for approximately eight (8) weeks.

Following receipt of the qualified solenoid valves, installation will be implemented at the next scheduled plant outage. We trust that this information is responsive to the concerns outlined in References (a) and (b).

If you have any questions or comments, please do not hesitate to contact us.

Very truly yours,



cc: Mr. Boyce H. Grier  
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