

December 11, 1978

SNRC-343

Mr. Boyce Grier, Director  
Office of Inspection & Enforcement  
Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

LONG ISLAND LIGHTING COMPANY  
Shoreham Nuclear Power Station - Unit 1  
Docket No. 50-322

Dear Mr. Grier:

On November 3, 1978, in accordance with 10CFR50.55(e), we notified Mr. A. Toth of the NRC that a deficiency existed in Bailey Controls power supplies installed in ten Category I applications, principally HVAC analog instrumentation control loops. This letter serves as our 30-day written report for this deficiency.

DESCRIPTION OF THE DEFICIENCY

Bailey Controls was advised by their power supply vendor (ITT North Electric) that random premature failures of the power supplies could occur due to contamination of a capacitor by the packaging material used by the vendor. The packaging material of concern is foamed-in-place urethane which may damage the capacitor's dielectric material.

A review of the part numbers supplied by Bailey (BCC Part Nos. 8080B02P008 through 8080B02P0012, inclusive) determined that such power supplies were installed in ten Category I applications. These applications are primarily HVAC analog instrumentation control loops such as RBS&V, CRAC, etc. These systems are important for post LOCA and off-site release control.

CORRECTIVE ACTION

All potentially defective power supplies will be replaced. Bailey Controls has notified us that replacement power supplies will be shipped to us in early December 1978.

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December 11, 1973  
Mr. Boyce Grier  
Page 2

CORRECTIVE ACTION TO PREVENT RECURRENCE

Bailey Controls, as well as their vendor (ITT North Electric), are fully aware of this problem and will institute corrective action to insure that the packaging material utilized in the future will not adversely affect component reliability.

DATE OF FULL COMPLIANCE

We estimate that all replacements of the affected power supplies will be completed by April 1, 1979.

Very truly yours,

Original signed by

\ J. P. NOVARRO

J. P. Novarro  
Project Manager  
Shoreham Nuclear Power Station

GKP:jv

cc: Mr. John G. Davis, Director  
Office of Inspection & Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20545

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Eng. File/SR2...A21.200