



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

April 14, 1982

Mr. Ronald C. Haynes
Office of Inspection & Enforcement
Region 1
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406



SNRC-690

SHOREHAM NUCLEAR POWER STATION - UNIT 1
DOCKET NO. 50-322

Dear Mr. Haynes:

On March 19, 1982, in accordance with 10CFR 50.55(e), we reported verbally to Region 1 of a deficiency within HMA type relays manufactured by General Electric Co. This letter serves as our 30-day written report of this deficiency, and describes the corrective action to be taken.

Description of Deficiency

In December, LILCO was advised by General Electric Co., Service Advice Letter 721-PSM-166.1, of a possible defect in some HMA type relays manufactured during the period from January, 1976 through June, 1981.

General Electric Co. has determined that the length of the uninsulated flexible leads connected to the moveable contacts of some HMA relays exceeds the allowable dimensions. This can result in reduced spacings between the leads and the coil circuit terminals, which can result in short circuits between these circuits.

As a result of the Service Advice Letter, a preliminary inspection of the HMA relays was performed. Although none of the relays inspected appeared to exhibit the defect, we were unable to conclude that the HMA relays examined were acceptable, since the Service Advice Letter did not specify minimum spacings between the flexible leads nor the method of inspection.

During the course of this investigation, six HMA relays (uninstalled spares) were examined and found to exhibit the defect described in the subject S.A.L. since their uninsulated flexible

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leads were long enough to contact their coil wire terminal points. These six (6) relays were "QC date coded" as being manufactured prior to the January, 1976 through June, 1981 period described in the SAL. General Electric has been notified of this finding.

As a result of this finding, it was determined that this situation constitutes a reportable deficiency under 10CFR 50.55(e).

Corrective Action

General Electric Company has developed a modification to the flexible leads by assembling a heat shrinkable insulated tubing over the contact terminals. The heat shrinkable tubing will cover the terminals and approximately 5/16 inch of the flexible braid, thus eliminating a minimum spacings requirement between the flexible leads and the coil contact terminals.

This modification will be performed on all Cat 1E relays by installing the heat shrink tubing over the flexible leads which exhibit deficient spacings. The modification of all deficient Cat 1E HMA relays should be completed by June 30, 1982.

Very truly yours,


M. H. Milligan

JSK/law

cc: Mr. Richard DeYoung, Director
NRC Office of Inspection & Enforcement
Division of Reactor Operation Inspection
Washington, D.C. 20555

Mr. J. Higgins, Site NRC