



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

Direct Dial Number

February 7, 1983

SNRC-833

Mr. Ronald C. Haynes
Office of Inspection & Enforcement - Region I
U. S. Nuclear Regulatory Commission
King of Prussia, PA 19404

Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Dear Mr. Haynes:

On December 7, 1982, in accordance with 10CFR50.55(e), we reported verbally to Region I a deficiency with HMA type relays manufactured by General Electric Company. A 30-day written report of this deficiency was submitted on December 7, 1982 (Reference SNRC-806). This letter serves as a follow-up report.

Description of Deficiency

During the performance of Startup testing of Shoreham's 4.16KV emergency switchgear breakers, a breaker was observed which failed to operate when called to close. As a result of the investigation of the breaker misoperation, it was determined that a General Electric type HMA relay had "hung up" in its energized position after being de-energized. This HMA relay was utilized in the breaker's anti-pump circuit and its failure to open when de-energized prevented the proper operation of the Class 1E breaker when called to close.

Further investigation and examination of the defective relay indicates that the problem is caused by a rubbing condition between the relay's pivoting contact plate and its two stationary contact posts. The problem appears to be sporadic in nature and infrequent in its rate of occurrence. It is surmised that HMA relays exhibiting this defect may have prevented closure of two other switchgear breakers during testing, but in both those cases, the "hung-up" relay opened while the breakers were being lowered and pulled out of their cubicles for examination. The relays and breakers then functioned properly during subsequent inspections. Although HMA relays are utilized in several applications at Shoreham, only one case involving a 4.16KV switchgear breaker has been positively identified.

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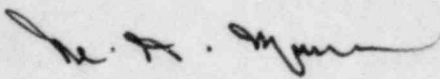
Corrective Action

General Electric has determined that some HMA relays manufactured in 1974 have insufficient clearance between the armature tail piece and the molded parts on either side of the tail piece. As a result of this deficiency, General Electric Company issued Service Advice Letter 721-PSM-171.1.

A field survey of all HMA relays manufactured prior to and during 1974 has been initiated to determine if any of these relays installed at Shoreham exhibit the spacing deficiency as described in the Service Advice Letter.

Additionally, General Electric Company is providing new HMA relays as spares/replacements should any additional defective relays be found. According to our present schedule, we estimate that the field survey and replacement program will be completed by May 31, 1983.

Very truly yours,



M. H. Milligan
Project Engineer
Shoreham Nuclear Power Station

JSK:mp

cc: J. Higgins
All parties