



# LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

JOHN D. LEONARD, JR.  
VICE PRESIDENT - NUCLEAR OPERATIONS

September 7, 1984

SNRC-1048

Dr. Thomas E. Murley  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King Of Prussia, PA 19406

I.E. Bulletin No. 84-02:  
Failures of General Electric Type HFA Relays  
In Use In Class 1E Safety Systems  
Docket No. 50-322

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Dear Dr. Murley:

The subject Bulletin describes failure of General Electric type HFA relays utilizing either nylon or lexan as the coil spool material.

The following corrective actions have been performed at Shoreham with respect to the problems described in I.E. Bulletin 84-02.

1. Replacement of Nylon Coils with Lexan Coils

In response to I.E. Bulletin 76-02 and GE Service Advice Letter 152.1 a survey was conducted of affected relays which included type HFA relays. Relays found to contain nylon coil spools had these replaced with lexan coils. This was reviewed by the NRC Resident Inspector, and Bulletin 76-02 was closed in NRC Inspection 80-11.

2. Replacement of Lexan Coils with Century Series Tefzel Coils

The cracking of lexan coils as described in GE Service Advice Letters 152.2 and 152.2a was reported to the NRC as a reportable deficiency (ref. SNRC-694) and was tracked as Inspection Item 82-00-05. Per SIL-44 and supplements, corrective actions required the replacement of the HFA relay coil with a GE Century Series tefzel coil, or the replacement of the entire relay with a Century Series relay.

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Safety related type HFA relays, whether utilized in normally energized or de-energized applications were either replaced with GE Century relays, or had their coil assemblies replaced with tefzel coils.

In order to ensure that the older and problematic HFA relay coils are not inadvertently used as replacement parts, the nylon/lexan coils have been removed from the safety-related equipment storage inventory.

Inspection item 82-00-05 was reviewed by NRC Region I personnel and was closed in NRC Inspection Report 50-322/83-16.

It should be noted that the replacement program described above has been extended to include non-safety related type HFA relays. The portion of the program involving non-safety type HFA relays is in progress.

The following information pertains to the general concerns of the Bulletin. General Electric type HFA relays are employed in various safety related systems, including the Reactor Protection System.

A Deficient Items List, maintained by Operational Quality Assurance, has been updated to require that future procurement of these type relays as spare parts requires certification that the relays be supplied with tefzel coils.

The Shoreham surveillance and maintenance program includes information supplied by the equipment manufacturers and vendors regarding required equipment maintenance actions and their frequency. In addition, as demonstrated earlier in this letter, LILCO routinely reviews vendor information such as GE Service Information Letters and Service Advice Letters and takes remedial action where appropriate.

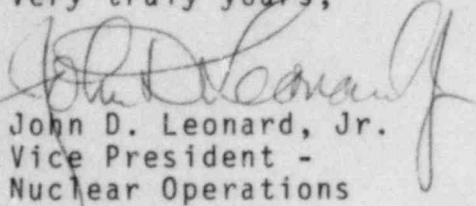
Furthermore, the Shoreham surveillance and maintenance programs include documented program plans and procedures to assure that the safety-related equipment is maintained in a state of readiness and operability so that it will perform its intended safety function upon demand.

The contents of this letter should satisfy the requirements of the written report sought by item 2b of I.E. Bulletin No. 84-02.

I. E. Bulletin 84-02 page 4 of 6 specifies the actions required of plants under construction. Item 2a requests plans and schedules for replacing both normally energized and normally de-energized HFA relays as specified by this bulletin which are utilized in safety-related systems at Shoreham. Since, as discussed above, the coil assembly replacement called for by this Bulletin was completed, subsequently inspected, and accepted by NRC Region I personnel, there is no need to provide Shoreham specific plans and schedules.

Should you or any members of your staff have any questions regarding our response to this bulletin please do not hesitate to call my office.

Very truly yours,



John D. Leonard, Jr.  
Vice President -  
Nuclear Operations

JB:ck

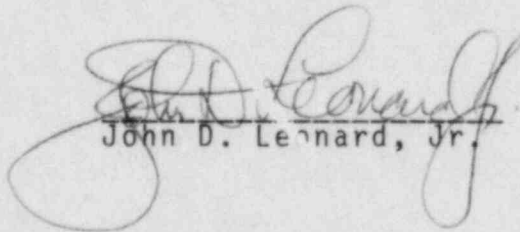
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cc: P. Eselgroth  
C. Petrone

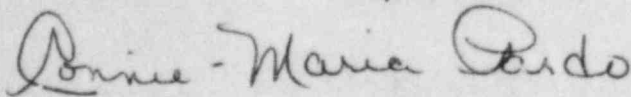
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STATE OF NEW YORK     )  
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COUNTY OF SUFFOLK    )

JOHN D. LEONARD, JR, being duly sworn, deposes and says I am the Vice President, Nuclear Operations for the Long Island Lighting Company. I have read I.E. Bulletin No. 84-02: "Failures of General Electric Type HFA Relays in Use in Class 1E Safety Systems". I have also read this response which was prepared under my direction and dated September 7, 1984. The facts set forth in this response are based upon reports and information provided to me by the employees, agents and representatives of Long Island Lighting Company responsible for the activities described in said I.E. Bulletin and in said response. I believe the facts set forth in said response are true.

  
John D. Leonard, Jr.

Swore to before me this  
7 day of September 1984



CONNIE-MARIA PAROU  
NOTARY PUBLIC, State of New York  
No. 52-46158-10  
Qualified in Suffolk County  
Commission Expires March 30, 1985