



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

November 1, 1979

SNRC-442

Mr. Boyce H. Grier
Office of Inspection and Enforcement
Region 1
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:

NRC Inspection and Enforcement Bulletin No. 79-23 addresses design errors in the connection of the emergency diesel generator control/excitation power (EPT) transformers and the neutral of the generator. A deliberate or inadvertent connection between the neutral of the EPT and the generator neutral will result in high circulating currents due to harmonics, which in turn can lead to transformer damage or failure. This condition can also lead to tripping of the emergency diesel generator via operation of the generator differential relaying. This relaying is not by-passed in the emergency or fast-start mode. (Ref. I&E Circular 77-16). The bulletin also requires a schedule for the completion of a sustained full-load operation test for a duration of not less than 24 hours.

A review of the design and construction drawings has revealed that the neutral of the primary winding of the EPT is not grounded to the generator output. However, to ensure that such a connection will not be made, each emergency diesel generator will be inspected for the direct or indirect grounding condition. This inspection will be performed at the completion of construction activities, as part of the on-site acceptance testing.

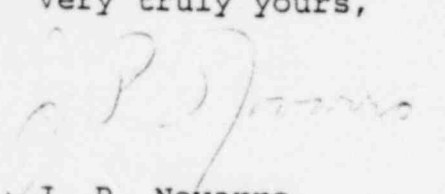
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Preoperational tests for the emergency diesel generators are currently scheduled for summer of 1980. Testing shall be in accordance with regulatory positions C.2.a and C.2.b of Regulatory Guide 1.108 (Revision 1, August 1977). The Shoreham FSAR Section 14.1.3.7.24 is currently being modified to reflect this.

Very truly yours,



J. P. Novarro
Project Manager
Shoreham Nuclear Power Station

MAG:jm

cc: Mr. Victor Stello, Director
Office of Inspection & Enforcement
Washington, D.C.

Mr. J. Higgins
Site NRC Trailer

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