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

January 11, 1985 SNRC-1127

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Shoreham Technical Specification 4.13.1.1.2, Item a.5
69 kV Bus - Breaker Surveillance
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Dear Mr. Denton:

The purpose of this letter is to explain why the twelve hour verification surveillance (by station personnel) of the 69 kV switchyard bus, called for in item a.5 of Shoreham Technical Specification 4.13.1.1.2, is not required to be performed. This technical specification required verification every 12 hours that the loads or power supplies normally disconnected from the 69 kV bus are disconnected.

This surveillance requirement is the result of the NRC Staff's concern to ensure that, after a loss of voltage on the 69 kV system, AC power output from the 20 MW gas turbine will not be diverted from the Reserve Station Service Transformer (RSST). (The concern was expressed in a meeting between the Staff and LILCO on March 29, 1984 and is written as such in Supplement No. 5 of the Safety Evaluation Report.) As the 69 kV circuit is presently configured, AC power cannot be so diverted.

To illustrate this, reference is made to SNPS Drawing No. F48570-7 (Rev. 7) - One Line Diagram 8Z, 69 kV Switchyard. From this drawing it can be seen that motor operated Air Break Switches (A.B.S.) numbered 617, 616, and Gang Operated Disconnect (G.O.D.) switch 633 are the only devices that provide a potential diversion of AC output power from the 20 MW gas turbine to the RSST. A.B.S. numbers 616 and 617 are normally closed (connected) and will automatically open subsequent to a loss of voltage on the 69 kV offsite power system bus. This is demonstrated every 31 days by performance of the surveillance specified in Section

A001
1/1

4.13.1.1.2.c.1 of the Shoreham Technical Specifications. G.O.D. switch 633, which is normally open, represents neither a load nor a power supply because there is currently nothing connected to the other side of the switch. Therefore, by design, it is not possible to divert the AC output of the 20 MW gas turbine from the RSST feeder.

It should be noted that the same conclusion can be drawn from reference to the Shoreham FSAR Figure 8.2.1-1 with some further explanation that the automatic features of breaker switches 616 and 617 are not shown and that all loads shown on the Figure as connected, G.O.D. switch 633 such as the gas turbine starting transformer to construction power, etc. have been disconnected and removed. Figure 8.2.1-1 will be revised to conform to these actual conditions in the next revision of the FSAR.

Please do not hesitate to call my office or members of my staff should you require additional information or clarification regarding this request.

Very truly yours,

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

MJG:ck

cc: R. Caruso
P. Eselgroth