



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

Direct Dial Number

April 22, 1983

SNRC-872

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

SER Issure No. 47 - Control System Failures
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Reference: (1) Letter SNRC-761 dated 8/27/82
(2) Letter NRC (A. Schwencer) to LILCO (M. S. Pollock)
dated 11/24/82

Dear Mr. Denton:

As stated in section 7.7 of Supplement No. 1 to the Shoreham Safety Evaluation Report (SER) the Long Island Lighting Company had committed to conduct a review to demonstrate that failures or malfunctions of power sources or sensors providing power or signals to two or more control systems will not result in consequences outside the bounds of the FSAR Chapter 15 analyses or beyond the capability of operators or safety systems.

In fulfillment of this commitment, LILCO, via the reference (1) letter, had forwarded a report entitled "Control System Failures Evaluation Report". This report concluded that, although new transient category events can be postulated by considering these failures or malfunctions, the net effects have been positively determined to be less severe than those of the original, conservative Chapter 15 events.

Per the reference (2) letter, the staff conducted a preliminary review of this report and determined that, while the report appeared to satisfactorily address the effects of power supply failures, it did not address control system failures caused by common sensors such as hydraulic headers and impulse lines. In this reference (2) letter, a request for information containing 3 items was included as Enclosure 1. Items 1 and 2 of this request involve the identification of control systems whose failure or malfunction could impact plant safety and further identification of the control systems noted above which receive power from common

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power sources. LILCO has determined that Sections 3.2 and 3.5 of the Ref. 1 report address these items, and no additional changes are required. Item 3 of this request involves control system failures caused by common sensors, common hydraulic headers or common impluse lines. Control system failures caused by common sensors are enveloped by the Ref. 1 report, and no further revisions are required. This report did not however, address control system failures caused by common hydraulic headers or common impluse lines. LILCO had informed the staff that these failures would be evaluated and any problems would be summarized in a preliminary report, with a final report to be submitted 45 days later.

The purpose of this letter is to serve as the above mentioned preliminary report and advise the staff that an evaluation has been performed as required for control system failures caused by common hydraulic headers or common impluse lines. This evaluation has led to the conclusion that these failures will not result in consequences outside the bounds of the FSAR Chapter 15 analyses or beyond the capability of operators or safety systems.

A final report is presently being completed and will be submitted to the staff by mid-May. This report will be in the form of a supplement to the report submitted in Ref. 1.

Please advise if you have any questions on this matter.

Very truly yours,

W. J. Museler for J. L. Smith

J. L. Smith
Manager, Speical Projects
Shoreham Nuclear Power Station

RWG:bc

cc: J. Higgins
All Parties Listed in Attachment 1

ATTACHMENT 1

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