



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

WILLIAM E. STEIGER, JR.

ASSISTANT VICE PRESIDENT—NUCLEAR OPERATIONS

SNRC-1665

JAN 18 1990

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C., 20555

Response to Generic Letter 89-13
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

- Ref: (1) Generic Letter 89-13, "Service Water System Problems Affecting Safety-Related Equipment," July 18, 1989.
(2) LILCO letter SNRC-1621 dated September 27, 1989 to U.S. Nuclear Regulatory Commission from W.E. Steiger, Jr.; subject: Deferral of Certain Regulatory Activities.
(3) LILCO (A. F. Earley, Jr.) letter dated September 19, 1989 to U.S. NRC (T. Murley) subject: LILCO's Response to the August 30, 1989 letter from NRC to LILCO.

Gentlemen:

The Long Island Lighting Company (LILCO) has reviewed Generic Letter 89-13 (reference 1) as it relates to the Shoreham Nuclear Power Station (SNPS). Commensurate with Shoreham's current non-operating and defueled condition, and consistent with the information previously submitted to the Commission by SNRC-1621 (reference 2), LILCO has decided that the requirements and recommended actions of Generic Letter 89-13 as they pertain to SNPS will be indefinitely deferred. The deferred status of this Generic Letter request will be tracked on LILCO's computerized administrative tracking system.

Generic Letter 89-13 requests that licensees and applicants perform the following or equally effective actions to ensure that their service water systems are in compliance and will be maintained in compliance with 10CFR50, Appendix A, General Design Criteria 44, 45, and 46 and Appendix B, Section XI:

- o For open-cycle service water systems, implement and maintain an ongoing program of surveillance and control techniques to significantly reduce the incidence of flow blockage problems as a result of biofouling;

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- o Conduct a test program to verify the heat transfer capability of all safety-related heat exchangers cooled by service water;
- o Ensure by establishing a routine inspection and maintenance program for open-cycle service water system piping and components that corrosion, erosion, protective coating failure, silting, and biofouling cannot degrade the performance of the safety-related systems supplied by service water;
- o Confirm that the service water system will perform its intended function in accordance with the licensing basis for the plant; and
- o Confirm that maintenance practices, operating and emergency procedures, and training that involves the service water system are adequate to ensure that safety-related equipment cooled by the service water system will function as intended and that operators of this equipment will perform effectively.

The SNPS Reactor Building (RB) Service Water System (SWS) is an open-cycle system which uses Long Island Sound as an Ultimate Heat Sink (UHS). In SNPS' non-operating and defueled condition, the RB SWS is currently OPERABLE, as described in reference 3 and as discussed with the Commission at the July 28, 1989 LILCO/NRC meeting. LILCO has opted, consistent with the deferral of the inservice inspection/in-service testing programs reported in SNRC-1621, to also defer the activities associated with this Generic Letter.

LILCO has reviewed Generic Letter 89-13 to assess its applicability to SNPS in its current condition. In conjunction with this review, an evaluation was performed to determine the SNPS current SWS heat load. Our evaluation determined that the heat load under the current plant condition (i.e., non-operating, defueled, and fuel stored in the Spent Fuel Storage Pool) is a maximum of 20% of that at full power load under Loss of Coolant Accident (LOCA) conditions. As a result, we have concluded that a reduction in SWS cooling by nearly 80% could occur with no detrimental effect.

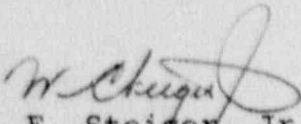
Furthermore, (1) the UHS intake canal continues to be monitored in accordance with SNPS Technical Specifications and has been dredged approximately one year ago; (2) the heat exchangers in service are monitored for blockage and are being maintained under

the SNPS preventive maintenance program; and (3) the chlorination system is operated to the limits of New York State allowances to preclude biofouling. These efforts assure that the SNPS SWS will perform satisfactorily for the duties required while SNPS is in a non-operating, defueled condition.

LILCO assures the Commission that the deferred action will be tracked, and, should the present SNPS situation change, the requirements and recommended actions of Generic Letter 89-13 will be addressed.

If additional information or follow up discussion is required, please do not hesitate to contact my office.

Very truly yours,



W. E. Steiger, Jr.
Assistant Vice President
Nuclear Operations

MP/ap

cc: S. Brown
W. T. Russell
F. Crescenzo

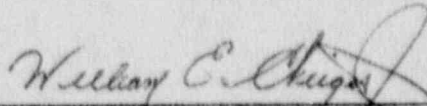
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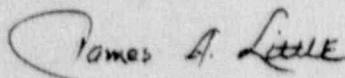
COUNTY OF SUFFOLK)

I, WILLIAM E. STEIGER, JR., being duly sworn, depose and say that I am the Assistant Vice President - Nuclear Operations for the Long Island Lighting Company. I am authorized on the part of said Company to sign and file with the U.S. Nuclear Regulatory Commission the enclosed letter (SNRC-1665) for the Shoreham Nuclear Power Station. This response was prepared under my supervision and direction; and the statements contained therein are true and correct to the best of my knowledge, information and belief.


William E. Steiger, Jr.

Sworn to before me this

18th day of January 1990



JAMES A. LITTLE
NOTARY PUBLIC, State of New York
No. 4886267, Suffolk County
Term Expires May 18, 1991