



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

November 7, 1979

SNRC-445

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

Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Dear Mr. Denton:

Enclosed herewith are fifteen (15) copies of a report entitled "LOCA/SRV Submerged Structure Loads Methodology" by Stone & Webster Engineering Corporation, dated October 22, 1979. This report defines how the Lead Plant Submerged Structures Program is applied to Shoreham in consonance with previous commitments in the Shoreham Design Assessment Report. It also responds to Mr. Varga's request of October 9, 1979, for this subject area.

Submerged structures loads have been addressed in part by formal submittal on the LaSalle Docket (No. 50-373/374) in DAR Appendix C, Rev. 6 dated October 1979. This submittal contained the lead plant methods employed concerning drag and lift coefficients for unsteady flow, interference effects, and uniform velocity and acceleration evaluated at the geometric center of a structure. In the enclosed report, we have provided a more detailed explanation of submerged structures methodology being used for Shoreham. As may be seen from an inspection of this report, provisions of the NRC acceptance criteria for submerged structures have been incorporated in nearly every case.

The loads on submerged structures are being calculated on this basis, which is judged acceptable, based on previous discussions with NRC Staff and consultants.

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We would appreciate your early response to the details presented in this report since we are proceeding to verify the plant's structures and systems on this design basis.

Very truly yours,

J. P. Novarro
Project Manager
Shoreham Nuclear Power Station

JPM/cc

Enclosures

cc: J. Higgins

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