



# LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

May 30, 1979

SNRC-396

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 "ADDITIONAL INFORMATION ON JUSTIFICATION OF MARK II LEAD PLANT SRV LOAD DEFINITION", by Stone & Webster Engineering Corporation, dated May 15, 1979. This report is provided in response to a telephone conference call on April 27, 1979 between the NRC Staff and representatives of the Mark II Lead Plants.

During that telephone conversation, the NRC Staff requested that Shoreham complete Table 2 of the SRV Load Definition Report, and submit a discussion on the effect of modal participation on low frequency piping system responses.

The detailed analysis results support the conclusion that the design basis Ramshead Load definition provides conservative results even when the fundamental mode of a piping system is low enough for a few modes to occur in the frequency range where the tee quencher amplified response spectra (ARS) is greater than the ramshead ARS. This is because the contribution to total stress from the low frequency range modes is only a small part of the total. This document therefore further reinforces the justification of the use of the ramshead SRV load definition as the Mark II Lead Plant SRV load definition for plant component design.

We trust that this information is responsive to the Staff's request regarding the response of low frequency piping systems, and completes the documentation of the load definition described in our March 30, 1979 submittal (SNRC-374).

Very truly yours,

*J. P. Museler for J. P. Novarro*

J. P. Novarro,  
Project Manager  
Shoreham Nuclear Power Station

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