



# LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

Direct Dial Number

July 11, 1983

SNRC-933

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20535

Submittal of the  
Shoreham Final Probable  
Risk Assessment (PRA) Report  
Shoreham Nuclear Power Station - Unit 1  
Docket No. 50-322

Dear Mr. Denton:

Enclosed herewith are fifteen (15) copies of the final Probabilistic Risk Assessment (PRA) report, prepared for the Shoreham Nuclear Power Station by Science Applications, Inc. (SAI). In the course of the litigation of Suffolk County Contention 7B, regarding systems classification and systems interaction, the NRC staff expressed an interest in reviewing the Shoreham PRA. As documented in the pre-filed NRC testimony (SC 7B, page 33), the staff did not require a Shoreham PRA as part of the regulatory review process for the issuance of an operating license.

The PRA effort was initiated in 1981 on a voluntary basis by LILCO in order to:

Assess the risk to the general public associated with the operation of the Shoreham Nuclear Power Station by the evaluation of hypothetical, low probability, but potentially high consequential accident sequences which are far beyond nuclear power plant design basis requirements.

Perform an independent verification of the design process to ensure that Shoreham has no atypical or disproportionate features in its design which dominate risk.

Develop a basis for the assessment of the reliability and risk of Shoreham over the life of the plant.

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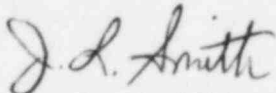
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The PRA is a tool that will provide useful, supplementary information to aid decision making beyond the traditional engineering evaluations, performed to meet licensing requirements. LILCO therefore intends to maintain the PRA logic model in a state that reflects current plant design and new technological developments in the field of PRA techniques and data base applications.

If any additional information is required, please contact this office.

Very truly yours,



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

Enclosure

RT:mp

cc: J. Higgins  
All Parties Listed in Attachment 1

ATTACHMENT 1

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