



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

Direct Dial Number

September 1, 1983

SNRC-959

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

Amendment No. 49 to License Application
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Dear Mr. Denton:

Long Island Lighting Company hereby submits its License Application, consisting of Revision 31 to the Final Safety Analysis Report.

The following significant items are included in this revision:

1. Changes to correct discrepancies identified by the Shoreham Plant Configuration Review Program for the following:
 - TMI Changes
 - G-33 System - Reactor Water Cleanup
 - P-11 System - Condensate Transfer and Storage
 - X-61 System - Control Room HVAC
2. Table 5.2.1.1 "Design Temperature, Pressure and Maximum Test Pressure for RCPB Components" and Table 5.2.1-4 "RCPB Pump and Valve Description" were revised to reflect as-built condition of plant.
3. Section 9.5 was revised to clarify the CO2 System test descriptions.
4. Section 9.4 was amended to reflect the revised design of the Reactor Building Normal Ventilation System and revised temperature setpoints for the screenwell pumphouse and battery rooms.

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5. Updates for TMI Sections III.D.1.1, "Primary Coolant Sources Outside the Containment Structure"; III.A.1.2 "Permanent Emergency Response Facilities Design Criteria and Description"; II.B.3, "Post Accident Sampling"; II.E.4.2, "Containment Isolation Dependability"; and II.F.1, "Accident Monitoring Instrumentation".
6. Section 6.2 was revised to reflect the capping of six downcomers, the revised peak containment pressure and other updated information on the containment systems, including the revised design of the Reactor Building Standby Ventilation (RBSVS) System, pipe break, and combustible gas control.
7. Appendix 3A was revised to add computer programs utilized for stress and static and dynamic analyses.
8. Sections 3.7.4.2.2A-3.7.4.3A were revised to provide more accurate information on seismic instrumentation.
9. Updates of LILCO responses to NRC questions 223.12, 212.104, 212.25, 112.21, 212.14, 212.76, 223.73, 223.38, 223.72, and 223.85.
10. Section 4.4, "Loose Parts Monitoring System" was updated per NRC request.
11. Section 8.3.1.1, Table 8.3.1-1, "Emergency Diesel Generator System Required Loads and Maximum Coincident Demand" and Table 8.3.1-2, "Sequential Loading of Diesel Generator Sets" were revised to reflect latest data and most recent electrical calculation.
12. Sections 4.2 and 7.7 were revised to reflect the improved Scram Discharge Volume design. Section 4.2 was also revised to reflect existing test specs for the Control Rod Drive System.
13. Section 3.9A was revised to include discussion of hydrodynamic Mark II loads.
14. Section 8.3.1.4 was revised to reflect hearing resolution of Suffolk County Contention No. 32 on electrical penetrations.
15. Sections 13.2.2-13.2.2.3 were revised to reflect the settlement agreement of Suffolk County Contention 20 on licensed personnel requalification and the simulator.
16. Section 7.3 was revised to reflect changes in Core Spray System and RBSVS Controls.

17. Sections 4.3 and 4.4 were revised to reflect changes in the 8 x 8 fuel design.
18. Section 6.4 was revised to reflect the fact that the CRAC system, in its emergency operating mode, initially utilizes one outside air intake automatically instead of both intakes.
19. Section 3.9.B was revised to reflect the incorporation of the fuel lift evaluation.
20. Table 6.2.4-1, "Process Pipelines Penetrating Primary Containment" was updated to reflect revised valve stroke times.
21. Section 12.5 was revised to reflect the fact that the chemistry laboratory is not planned to be utilized for reactor water samples.
22. Table 9.1.4-2 "Polar Crane Design" was revised to reflect the NRC position with respect to Inspection Item 82-15-03.
23. Chapters 13 and 17 were revised to address LILCO's revised organization (including interim organization) and LILCO's program to assure that the safety significance accorded to nonsafety related structures, systems and components is maintained during operation.
24. Sections 11.4 and 12.3 on the Radiation Monitoring System were updated, partially to address NRC I&E items.
25. Table 3.11.1-2, "Environmental Qualification for Class IE Equipment Contained in BOP Specifications" was updated.
26. Section 11.5 was updated to reflect revisions to the Solid Waste System.
27. Figures throughout Section 7.3 were revised to reflect changes to room temperature alarm setpoints.
28. Section 6.3 was updated to better describe input variables used in LOCA analysis.
29. Figures 3.6.5A-5A,5B,6 and 7 were revised to remove four rupture restraints which are no longer required, to avoid possible interference problems during plant startup.
30. Sections 7.7 and 15A were revised to reflect the updating of the Rod Sequence Control System description.

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The above items reflect FSAR closure of concerns identified in the course of NRC Staff and LILCO review of the Shoreham license application and I&E on-site engineering review.

Three signed originals of Amendment 49 and an additional sixty (60) copies are being transmitted herewith. Instructions for making the necessary page changes are enclosed for your convenience.

Very truly yours,

J. Museler for J. L. Smith

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

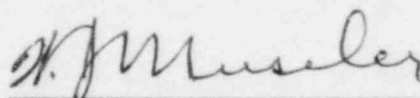
RWG/law S4
Attachments
Enclosures

cc: J. Higgins
All Parties Listed in Attachment 1

AFFIDAVIT

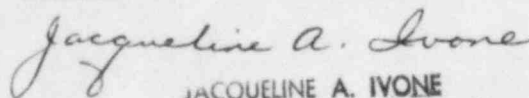
STATE OF NEW YORK)
 : ss: Shoreham
COUNTY OF SUFFOLK)

WILLIAM J. MUSELER, being duly sworn, states that he is Director, Office of Nuclear, within Long Island Lighting Company, that he is authorized on the part of said Company to sign and file with the U.S. Nuclear Regulatory Commission the foregoing Amendment No. 49 to License Application, Shoreham Nuclear Power Station, Unit 1, Docket No. 50-322; that Amendment No. 49 was prepared under his supervision and direction; and that the statements contained therein are true and correct to the best of his knowledge, information and belief.



William J. Museler

Sworn to before me this
First day of September, 1983



JACQUELINE A. IVONE
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Term Expires March 30, 1984

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