



Long  
Island  
Power  
Authority

Shoreham Nuclear Power Station  
P.O. Box 628  
North Country Road  
Wading River, N.Y. 11792

AUG 04 1994

LSNRC-2177

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

Shoreham Decommissioning Project  
Termination Survey Plan - Revision 3  
Shoreham Nuclear Power Station - Unit 1  
Docket No. 50-332

- Ref: (1) Long Island Power Authority letter LSNRC-2133 dated January 1, 1994;  
subject: Termination Survey Plan - Revision 2
- (2) Nuclear Regulatory Commission letter dated June 7, 1994; subject:  
Approval of a Modification of Facility Release Criteria for Tritium and  
Iron-55 Surface Contamination at Shoreham Nuclear Station, Unit 1
- (3) Long Island Power Authority letter LSNRC-2144 dated February 4, 1994;  
subject: Termination Survey Final Report Phase 2 and Application for  
Withholding Per 10 CFR 2.790

Ladies and Gentlemen:

Enclosed is the latest revision of the Shoreham Decommissioning Project Termination Survey Plan which supersedes the version previously transmitted in Reference 1. This Revision 3, forwarded as Enclosure 1, incorporates information on an additional pipe crawler utilized for the survey of 2 inch diameter piping. The revision also identifies certain survey units (areas of the facility) which are impacted by "hard-to-measure" isotopes, provides the ratios of these isotopes to more commonly detected nuclides, and states the resultant gross activity guidelines (GAG) to be applied to the survey units. These GAG values have been determined following the methodology of Appendix A of NUREG/CR-5849. A detailed discussion of the activation calculations and sample analysis performed to establish the isotopic ratios as well as the calculations for determination of GAG values for each specific survey unit is included as Enclosure 2 to this letter. Finally this revision updates the stated facility release criteria, accounting for modifications provided in Reference 2.

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Portions of the Shoreham Decommissioning Project Termination Survey Plan were identified in Reference 3 in a request for withholding of confidential commercial information. Since the resolution of the previous request for withholding is pending, the identical portions of Revision 3 of the Plan have similarly been withheld without further application for withholding. Three pages of the Plan included as Enclosure 1 have been replaced with blank pages. The actual pages are attached as Enclosure 3. The withheld pages included:

- Termination Survey Plan, Revision 3, Table 4.1 (page 4-2) - Termination Survey Instrument Summary
- Termination Survey Plan, Revision 3, Table 4.2 (page 4-4) - Measurement Detection Sensitivities
- Termination Survey Plan, Revision 3, Figure 4.2 (page 4-13) - Shoreham Decommissioning Termination Survey Grid Map

Please do not hesitate to contact me if you have any questions or require any additional information in this matter.

Very truly yours,



A. J. Bortz  
Resident Manager

Enclosures:            1)    Shoreham Decommissioning Project Termination Survey Plan -Revision 3  
                             2)    Adjustment Factors for Termination Survey Measurements  
                             3)    Pages withheld from Termination Survey Plan - Revision 3

cc:    L. Bell  
       C. L. Pittiglio  
       T. T. Martin  
       R. Nimitz  
       D. Fauver  
       R. Bernero, Director  
         Office of Nuclear Material Safety and Safeguards

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## ENCLOSURE 1

SHOREHAM DECOMMISSIONING PROJECT  
TERMINATION SURVEY PLAN - REVISION 3