



Long
Island
Power
Authority

Shoreham Nuclear Power Station
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SEP 30 1993

LSNRC-2101

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

ATTN: Mr. Robert Bernero, Director
Office of Nuclear Material
Safety and Safeguards

Termination Survey Final Report, Phase I
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

- Ref: (1) Long Island Power Authority Letter LSNRC-2072 dated May 17, 1993, subject: Termination Survey Plan, Rev. 1.
(2) Long Island Power Authority Letter LSNRC-2045 dated April 15, 1993, subject: Additional Information and Clarification as Requested by Staff Regarding the Decommissioning Project Termination Survey Plan.
(3) Long Island Power Authority Letter LSNRC-2079 dated July 1, 1993, subject: Additional Information Regarding Decommissioning Project Termination Survey Plan.

Gentlemen:

This letter transmits the Long Island Power Authority's Termination Survey Final Report for Phase I of the termination survey of the Shoreham Nuclear Power Station. This first portion of the Final Report describes the results of surveys performed on outside areas of the Shoreham facility, the Turbine Building and plant systems located in these areas of the facility. This portion of the final report transmits the Release Records for 191 of the current 420 total survey units which comprise the Shoreham Termination Survey as described in Reference 1. The Termination Survey Final Report, Phase I presents in excess of 100,000 individual survey measurements within these release records.

As previously discussed and committed to in Reference 2, this Termination Survey Final Report, Phase I contains a revised release record for the survey of the main turbine, Survey Unit SU029. Furthermore, it should be noted that this Final Report contains no measurement results obtained solely by use of the 252 cm detectors described in the Termination Survey Plan, Revision 1. In response to concerns raised by the Staff from review of Reference 3, LIPA has reconsidered the use of large area detectors as part of the termination survey. The following actions have been taken as a result of this review:

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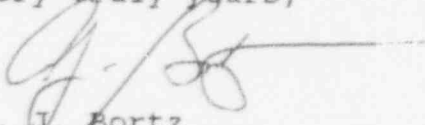
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1. The use of 252 cm² detectors (Aptec Model FT252 with 252 cm² sensitive area) for direct surface beta-gamma contamination measurements has been discontinued, although these detectors continue to be used for scanning surveys. All direct surface beta-gamma contamination measurements in which the FT252 was previously used have been repeated using either 126 cm² or 15.5 cm² pancake GM detectors. All FT252 derived direct surface activity measurement results have been deleted from the data reports.
2. As described in the Termination Survey Plan, Revision 1, direct surface contamination measurements are performed with either Eberline HP260 GM detectors (15.5 cm² detector sensitive area) or Aptec FT126 large area GM detectors (126 cm² detector sensitive area). Measurement results are reported as dpm/100 cm² using the 4(pi) detector efficiency multiplied by the ratio A/100, where A is the detector sensitive area.

The survey units reported in this Termination Survey Final Report, Phase I are being maintained in the as-surveyed condition as described in the Termination Survey Plan, Revision 1; this Final Report; and the individual survey unit release records contained therein. LIPA considers these areas suitable for release for unrestricted use, subject to Staff verification and confirmation of these reported results.

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

Very truly yours,


A. J. Bortz
Resident Manager
Shoreham Station

AJB/kc
Enclosures

cc: D. Fauver T.T. Martin
 C. L. Pittiglio R. Nimitz