



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

January 12, 1983

SNRC-815

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

SER Issue Number 57, Item II.B.3
Post Accident Sampling - Provision for
Offsite Laboratory Analysis of an
Undiluted Reactor Coolant Grab Sample
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

- Reference 1 LILCO letter, SNRC-605 (B.R. McCaffrey) to the
NRC (H.R. Denton), dated July 23, 1981
- Reference 2 DOE letter (D. Schweller) to LILCO (W.F. Renz),
dated May 5, 1982, "Radiological Assistance"
(enclosed)

Dear Mr. Denton:

The Shoreham Nuclear Power Station Post Accident Sampling Facility (PASF) is designed to provide analyses of reactor coolant and containment air samples to determine the condition of the core should there be an accident where fuel damage is suspected. In the highly unlikely occurrence that an accident occurs in conjunction with certain post accident sampling system equipment unavailability, every effort would be made to restore the operation of that equipment prior to shipping a highly active sample offsite. Additionally, LILCO has committed to comply with NUREG 0737, section II.B.3, which requires that provision be made for offsite laboratory analyses to further assure sampling capability in the unlikely event certain onsite Post Accident Sampling System (PASS) equipment is not available.

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LILCO has been negotiating with offsite laboratories (Reference 1) to provide post accident analyses of undiluted grab samples of reactor coolant.

The private and national laboratories in the vicinity of the Shoreham Nuclear Power Station do not have the capability to analyze an undiluted sample due to the inherent high source terms. The Department of Energy (DOE) has been contacted for assistance. The DOE (Brookhaven Area Office) will provide assistance in a radiological emergency (Reference 2 enclosed). This assistance includes:

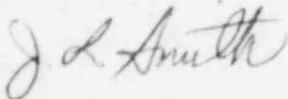
Transportation of the sample in an approved shipping container (LILCO supplied) from the Shoreham PASF to a DOE assigned National Laboratory with the capability to perform the required analysis.

Analysis of the sample for all parameters specified by Regulatory Guide 1.97.

Procedures to support the offsite analysis will be written to address the drawing of the undiluted grab sample, loading of the sample flask into the required shielding casks and the transfer onto a DOE assigned transport vehicle. These procedures will be available for onsite review prior to reaching 5% power.

LILCO believes this response should be sufficient to satisfy the SER requirements on back-up offsite laboratory analysis capability.

Very truly yours,



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

RJT/jm
Attachment

cc: J. Higgins
All parties
D. Schweller (BNL)



Department of Energy
Brookhaven Area Office
Upton, New York 11973

May 5, 1982

Mr. William F. Renz, Environmental Scientist
Nuclear Engineering Department
Long Island Lighting Company
175 East Old Country Road
Hicksville, NY 11801

Dear Mr. Renz:

SUBJECT: RADIOLGICAL ASSISTANCE

Since you are located in our Region, the Brookhaven Area Office is charged with the responsibility for providing radiological assistance in the event of an emergency. Such assistance can be requested at all times by calling 516-282-2200 and asking for radiological assistance, indicating the nature of the incident, the location, and how to contact authorities to coordinate our response.

The Department of Energy (DOE) will respond to requests for radiological assistance from licensees, Federal, State, and local agencies, private organizations, or individuals involved in or cognizant of an incident believed to involve source, by-product, or special nuclear materials as defined by the Atomic Energy Act of 1954, as amended, or other ionizing radiation sources.

Unless the DOE or a DOE contractor is responsible for the activity, ionizing radiation source, or radioactive material involved in an incident, DOE radiological assistance will be limited to advice and emergency action essential for the control of the immediate hazards to health and safety. Radiological emergency assistance will be terminated as soon as the emergency situation is under control. Therefore, responsibility for post-incident recovery, including further action for the protection of individuals and the public health and safety, should be assumed by the appropriate responsible Federal, State or local government, or private authority as soon as the emergency conditions are stabilized.

If you have any further questions or desire further information, feel free to contact me.

Sincerely,

David Schweller
David Schweller
Area Manager

cc: L. J. Deal
L. Cohen

