



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

JOHN D. LEONARD, JR.
VICE PRESIDENT - NUCLEAR OPERATIONS

November 8, 1984

SNRC-1098

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

LILCO Evaluation of Wetwell/Drywell Inerting
Nitrogen Cooling Components
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

- References:
- (1) IE Information Notice 84-17, "Problems with Liquid Nitrogen Cooling Components Below the Nil Ductility Temperature", dated March 5, 1984
 - (2) GE Service Information Letter SIL-402 "Wetwell/Drywell Inerting", dated February 14, 1984
 - (3) Letter SNRC-1082 dated September 18, 1984

Dear Mr. Denton:

This submittal, in conjunction with SNRC-1082, represents LILCO's evaluation and proposed modifications of the Containment Inerting System. This is in response to the referenced Information Notice and SIL-402, and the commitment stipulated in the Reference 3 letter.

In SIL-402, General Electric makes five recommendations to owners of Mark I and Mark II BWR's. LILCO addressed these in SNRC-1082. Recommendation 1 suggested that the inerting system be evaluated for the potential for introduction of cold (less than 40°F) nitrogen. LILCO and the system vendor have completed such an evaluation resulting in the following modifications:

1. A temperature-controlled valve will be added upstream of the nitrogen vaporizer.

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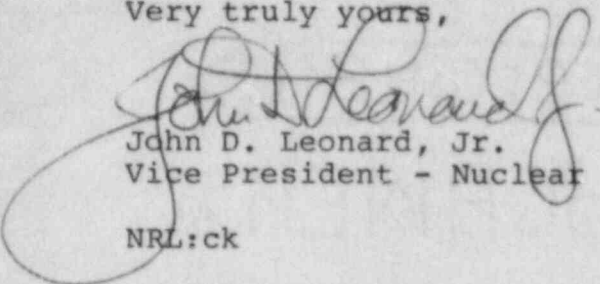
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2. A control panel local to the vaporizer (in the yard) will be installed. This will signal the temperature-controlled valve to close when the nitrogen temperature downstream of the vaporizer is below 40°F.
3. A thermocouple will be located on the nitrogen piping inside secondary containment, and will provide the signal to the control panel in the yard.
4. A pressure relief valve (setpoint of 350 psig) will be installed upstream of the temperature-controlled valve.

These changes will be implemented prior to inerting the containment.

LILCO is confident that these changes will preclude introduction of cold nitrogen into containment. We trust this satisfactorily addresses references 1 and 2. If you require additional information, please contact this office.

Very truly yours,



John D. Leonard, Jr.
Vice President - Nuclear Operations

NRL:ck

cc: P. Eselgroth
C. Petrone