

SEP 20 1982

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Docket No.: 50-322

Mr. M. S. Pollock  
Vice President - Nuclear  
Long Island Lighting Company  
175 East Old Country Road  
Hicksville, New York 11801

Dear Mr. Pollock:

Subject: Request for Additional Information - Shoreham Nuclear Power Station

As a result of our review of your application for an operating license for the Shoreham Nuclear Power Station, we find that we need additional information in the areas of instrumentation and control, containment systems and the environmental qualification of safety-related electrical equipment.

The specific request for information in the area of instrumentation and control is stated in Enclosure A as staff question 223.100.

As part of the staff's review of the containment isolation arrangement for the Shoreham Station, the instrument lines were reviewed against the provisions of Regulatory Guide 1.11, "Instrument Lines Penetrating Primary Reactor Containment." Since the publication of the staff's review of the containment isolation arrangement in the first supplement to the SER, you submitted Amendment 44 to your license application, which contained changes in the containment isolation arrangement design. Specifically, Amendment 44 stated that non-safety related instrument lines penetrating primary containment existed that relied on an orifice and a manual valve in each line to comply with the isolation provisions of Regulatory Guide 1.11. The considerations in the Supplement to Regulatory Guide 1.11 that apply to the Shoreham Station include the following:

- a. Each instrument line connected to the reactor coolant pressure boundary and penetrating containment should be sized, or should include an orifice, such that if a postulated failure of the piping or of any component (including the postulated rupture of any valve body) in the line outside primary reactor containment occurs during normal reactor operation:
  - (1) The leakage is reduced to the maximum extent practical consistent with other safety requirements;
  - (2) The rate and extent of coolant loss are within the capability of the reactor coolant makeup system;

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- (3) The integrity and functional performance of secondary containment, if provided, and associated safety systems (e.g., filters, stand-by gas treatment system) will be maintained; and
  - (4) The potential offsite exposure will be substantially below the guidelines of 10 CFR Part 100.
- b. For each instrument line penetrating containment, including those connected to the containment atmosphere, some method of verifying during operation the status (open or closed) of each isolation valve should be provided.

After reviewing the information provided in the Shoreham FSAR on this issue, the staff concludes that the above considerations have not been adequately addressed for the Shoreham Station.

Enclosure B contains a Safety Evaluation Report on the environmental qualifications of safety-related electrical equipment. Requests for the submission of outstanding information by you are included in Sections 3 and 4 of Enclosure B.

It is requested that you inform my staff within seven (7) days of receipt of this letter of your schedule for submitting the required information. If you have any questions, please contact Ed Weinkam, Project Manager at (301) 492-8430.

Sincerely,



A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing

Enclosures:  
As stated

cc: See next page

OFFICE	DL:LB#2/PM	DL:LB#2/B				
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Shoreham

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