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07 March 1982

Jerry N. Wilson, P.E.  
Division of Licensing  
US Nuclear Regulatory Commission  
Washington, DC 20555

SUBJ: Pool Dynamic Loads & Reactor changes for  
Shoreham Nuclear Power Station unit 1

Dear Mr. Wilson,

In 1968, design changes were made at SNPS which resulted in an increase of net electrical output from the original 540 MW to the current 820 MWs. However, the volume of the Suppression Pool was not correspondingly increased and it remains at 81,350 gallons.

1. At that time, when notified by the applicant (Lilco) of the intent to increase the power level while maintaining the same pool volume, what was the technical justification for allowing such a design deviation?
2. What should have been the proper pool volume for this 820 MW level?
3. At that time, what design modifications were ordered to compensate for the reduced efficiency of this pool?
4. With the discovery of the unexpected Mark II containment pool dynamic loads in 1975, now complicated by the already reduced pool volume, what design features have been incorporated into the facility to compensate for these greatly increased stress forces?
5. In NUREG-0420, Supplement 1, dated September 1981, FSER for the facility, section 3.8.1 Concrete Containment (page 3-1) it states:

...the effect of fluid-structure interaction (FSI) was assessed by the applicant and found to be either insignificant or adequately covered by other conservatisms in the design.

What FSI effects were found to be significant and what "other conservatisms in the design" are being relied upon to compensate for them?

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Dynamic loads/reactor  
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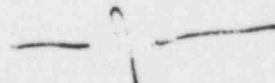
6. Shoreham's reactor vessel was originally designed per the ASME code, 1965 edition and was ordered in February 1967. However, it was not until November-December 1968 that the applicant decided to increase the net electrical output power. Therefore, what system and/or hardware modifications were necessary to achieve this 820 MW level?

Thanks for your time and your cooperation on these questions is greatly appreciated. While I certainly have no objection to a telephone reply on this matter, it seems that the specific nature of some of the inquiries may be more suitable for a written reply although you're free to use your own discretion on the matter.

(516) 281-6946 during normal business hours.

Thanks again,

Sincerely,



Bill Hafner

1-58

WEDNESDAY  
Date 1-2-82

### **LILCO and Nuclear Safety**

In response to your editorial "Holding Down the Price for Safe Nuclear Power" which appeared on Dec. 27:

The Suffolk Legislature's disapproval of the proposed agreement with LILCO was not a "mistake" as New York editorial states. LILCO—with Nuclear Regulatory Commission approval—"granted concessions" only insofar as the concessions for those "concessions" were dictated or otherwise strictly controlled. For those who took the time to study the agreement, the county's concerns were considered only insofar as they were convenient.

Now LILCO has another full intervenor to contend with—something they had hoped to severely restrict with the proposed agreement. Poor LILCO, nothing seems to go its way. Well, I suppose they'll have to soothe their ego by asking for another rate hike.

Bill Hafner  
Mastic

1-58

**LILCO IS THE WINNER IN SHOREHAM DEAL**

Several key issues are conspicuously absent from the editorial supporting the deal arranged between Suffolk County Executive Peter Cahalan and the Long Island Lighting Co. ["Negotiating a Safer Shoreham," May 25]. Let's look at some of those issues.

The \$245,000 of ratepayer's money that LILCO has offered Suffolk County to develop a radiological emergency response plan is contingent upon the following specific concessions from the county:

- That the County Planning Department develop the study from the starting assumption that evacuation of Long Island's East End, in the event of an accident at Shoreham, is actually possible. I, and many experts on the subject, simply don't agree.

- That the county agree to drop its status as an intervenor in upcoming hearings for LILCO's license to operate Shoreham.

- That LILCO maintains the authority to approve or disapprove of any outside technical consultants the county would hire.

- That LILCO maintains significant authority over the release and distribution of the study's findings.

LILCO, in return, agrees to build a control-room simulator on site. Big deal! The bottom line is that LILCO is paying the county to not do its job of protecting the interests of its citizens. You may find this all "encouraging," but I think it stinks.

William Rutter  
East Northport

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For years, LILCO has tried to get county officials to soften their stand against Shoreham. First, the company led a successful drive to get Irving Like, the county's special counsel,

fired. Then it successfully lobbied against the county, changing its legal status in the hearings from that of being "neutral" to being "opposed." And now we are being told that LILCO is giving the county an opportunity to "win" but few mention that it's ultimately according to the company's terms.

One of the concessions that LILCO has agreed to is that of allowing the county a representative on the Nuclear Review Board. However, Newsday's editorial failed to mention that all the members on this board would sign an agreement to keep all information in confidence. Decisions over disclosure would be up to LILCO or the Nuclear Regulatory Commission. That is called a "negotiated victory" only by the naive.

On the other hand, the conditions set by the Shoreham Opponents Coalition, while being unprecedented, are not unreasonable. First of all, the Price-Anderson Act should be repealed and allow our free enterprise system to reflect the true costs of nuclear power. Furthermore, by exempting itself from the provisions of the act, LILCO would have a more compelling incentive for avoiding careless mistakes than attempting to cover them up with their dictatorial control over the Nuclear Review Board.

The only side which stands to gain through such negotiations is LILCO. The utility is not looking forward to the NRC hearings, in part because it is concerned about what might be revealed about the Shoreham reactor. Then again, if I spent \$2.2 billion on a piece of obsolete equipment and was about to recover that from my customers (without their consent) I wouldn't want the hearings either.

Bill Hafner  
Mastic