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January 10, 1978

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. George Lear, Chief
Operating Reactors Branch No. 3
Division of Operating Reactors



Gentlemen:

STEAM GENERATOR FEEDWATER WATER HAMMER
NO. 1 UNIT
SALEM NUCLEAR GENERATING STATION

Ref. 1: LETTER DATED JUNE 22, 1977 FROM G. LEAR, USNRC
TO F. P. LIBRIZZI, PSE&G, THIS SUBJECT

Ref. 2: LETTER DATED SEPTEMBER 2, 1977 FROM G. LEAR, USNRC
TO F. P. LIBRIZZI, PSE&G, THIS SUBJECT

We have reviewed the referenced letters regarding the subject of water hammer in the Salem No. 1 Unit Plant. The Reference 2 letter requests a description and evaluation of the measures which we are implementing to minimize the probability of a detrimental water hammer in the Salem No. 1 Unit Feedwater System. The Reference 1 letter requests certain modifications to and the clarifications of a test program which we proposed to demonstrate the efficacy of these measures and justify removal of our rate of level recovery license restriction.

This letter is intended to both provide you with the description and evaluation which you requested in the Reference 2 letter and to inform you that we do not presently anticipate carrying out the proposed test program discussed in the Reference 1 letter.

Design Measures to Minimize Potential for Water Hammer

The entire subject of steam generator feedwater water hammer has been closely followed by Public Service since its inception as a generic concern, especially with regard to the design of the Salem units. Upon identification by the industry of measures commonly accepted as effective in reducing the potential for water hammer events, these design measures were incorporated into the Salem design. Specifically:

The Energy People

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