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March 28, 1983
5633-56

50-322

Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, Maryland 20114

Subject: Independent Design Review for the Shoreham Nuclear Power Station

Reference: TES Letter No. 5633-43 to the USNRC dated February 11, 1983

Dear Mr. Denton:

In accordance with the procedures defined in the referenced letter we are forwarding a copy of the minutes of meeting held on March 16, 1983, between Teledyne Engineering Services, LILCO and Stone and Webster personnel. The purpose of this meeting was for clarification of TES review item ICR No. 5633-1, classified as Additional Concern.

If you have any questions or comments, please do not hesitate to contact Mr. Donald F. Landers or the writer.

Very truly yours,

TELEDYNE ENGINEERING SERVICES

James P. King

James P. King
Assistant Project Manager

JPK/ao

Attachment

cc:
D. F. Landers (TES)
J. A. Flaherty (TES)
J. H. Malonson (TES)
TES Document Control

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TELEDYNE
ENGINEERING SERVICES

INTERFACE MEETING FOR CLARIFICATION OF TES REVIEW ITEM ICR NO. 5633-1, PART OF INDEPENDENT DESIGN REVIEW FOR SHOREHAM NUCLEAR POWER STATION, HELD AT TELEDYNE ENGINEERING SERVICES OFFICES MARCH 16, 1983, 1:30 P.M.

LONG ISLAND LIGHTING (LILCO)	TELEDYNE (TES)	STONE & WEBSTER (SWEC)
W.J. Museler	D.F. Landers	R.E. Foley
M.H. Milligan	J.A. Flaherty	R. Hankinson
C.K. Seaman	J.P. King	D.A. Van Duyne
E.F. Montgomery	G.S. Blanchet	E.J. Brabazon
	L.E. Barron	D.T. King
		D.C. Foster
		S.J. Yerardi

SUMMARY:

TES issued ICR-5633-1 on November 2, 1982, classified as a Finding. A disposition response from LILCO/SWEC was received by TES on January 15, 1983. At a February 15, 1983 interface meeting TES was supplied with additional information regarding this item. A supplementary response to this item by LILCO/SWEC was received by TES on February 25, 1983. TES reissued ICR-5633-1 on March 4, 1983, classified as an Additional Concern. The purpose of today's meeting is for clarification of items in the additional concern.

DISCUSSION:

SWEC personnel gave a description of their small bore piping qualification program for Shoreham initiated in June, 1982, in accordance with procedure EMTG-5/EMTP 9.5. SWEC Interoffice Correspondence SBM #6 was issued on August 18, 1982, giving detailed instruction for determining relative displacements. Additional clarification was provided in Interoffice Correspondence of August 23, 1982. SWEC Interoffice Correspondence SBM #3 was issued July 16, 1982 as a deviation to the EMTP 9.5 procedure. This document also provides for the following allotments of stresses per categories for small bore piping evaluation to Equation 11, NC-3652.3 of ASME Section III:

Deadweight and Pressure	5,000 psi
Seismic End Effects	13,000 psi
Thermal Expansion	19,500 psi

TES personnel described their concerns, as presented in the reissued ICR-5633-1 as follows:

(1) Consideration of building and piping seismic vertical displacements as being in phase.

(2) For the subject small bore piping calculations for Isometric P1062-4 and P1081-5, only one direction of horizontal seismic building displacement is being applied, instead of both X and Z as required by SWEC procedures.

(3) The consideration of either thermal and ½ seismic anchor displacement or 2 x ½ seismic anchor displacement in satisfying Equation (11).

RESOLUTIONS

SWEC understood TES' concern with respect to vertical seismic displacement and would prepare a response.

SWEC is reviewing all small bore calculations done prior to the issuance of SBM #6 to assure compliance with that requirement. TES requested that a sampling of small bore calculations done after issuance of SBM #6 alse be performed.

SWEC indicated that using 2 x ½ seismic anchor displacement in satisfying Equation (11) is automatically covered by their criteria. They will demonstrate this in their response.