

The Light company

Houston Lighting & Power P.O. Box 1700 Houston, Texas 77001 (713) 228-9211

June 26, 1980
ST-HL-AE-485
SFN: V-0530

Mr. Karl Seyfrit
Director, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76102

Dear Mr. Seyfrit:

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
Interim Report on the Deficiency
Concerning the ECW Gantry Crane
Seismic Analysis

On May 29, 1980, Houston Lighting & Power Company notified your office of a potentially reportable deficiency concerning seismic qualification of the Essential Cooling Water Intake Structure (ECWIS) gantry crane and the Diesel Generator Fuel Oil Storage Tank. The Safe Shutdown Earthquake (SSE) response spectra values used in designing the two components were determined by multiplying the Operating Basis Earthquake (OBE) values by 1.5 (as stated in the crane specification) rather than by a factor of 2.0. The factor of 2.0 should have been used in order to envelop the actual required SSE response spectra.

This concern was first identified during a review of the design of the ECWIS gantry crane. A subsequent check of other mechanical specifications revealed a similar situation with the standby diesel generator fuel oil storage tank in the diesel generator building.

New seismic calculations for the gantry crane and the storage tank which will incorporate the 2.0 factor are currently in progress. However, preliminary indications are that the designs of both components are sufficiently conservative since they anticipate load combinations more severe in impact than expected seismic loads. Consequently, modifications are not anticipated. Any additional information resulting from these calculations should be available to HL&P by mid-September, 1980. Additionally, HL&P and B&R are soliciting inquiries from reputable consulting firms to

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investigate and evaluate the seismic qualifications of equipment to be used at STP.

The next report on this potentially reportable deficiency will be submitted to the NRC by October 1, 1980. Any questions on this item should be directed to Mr. Shawn Rodgers, (713) 676-7953.

Very truly yours,

D. H. Barker

for

G. W. Oprea, Jr.
Executive Vice President

PLW/pjb

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