

The Light company

Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

August 21, 1995

ST-HL-AE-5140

File No.: G25

10CFR55.45

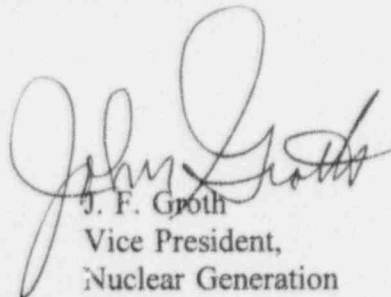
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498; STN 50-499
Simulator Upgrade Project Performance Testing Results

Reference: Correspondence from Mr. J. F. Groth, Houston Lighting & Power to the
Nuclear Regulatory Commission Document Control Desk dated
March 1, 1995 (ST-HL-AE-5008)

Pursuant to the referenced letter, a report of the test results for the simulator upgrade
project performance testing completed in July, 1995 is attached.

If you should have any questions, please contact Mr. J. T. Carlin at (512) 972-7949 or
me at (512) 972-8664.


J. F. Groth
Vice President,
Nuclear Generation

KJT/ps

Attachment: South Texas Project, Units 1 and 2
Simulator Upgrade Project Performance Test Results

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MISC-95/5140-215.003 Project Manager on Behalf of the Participants in the South Texas Project

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

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SOUTH TEXAS PROJECT
UNITS 1 AND 2
SIMULATOR UPGRADE PROJECT
PERFORMANCE TEST RESULTS

The South Texas Project simulator upgrade project is complete. Site acceptance testing began in March 1995 and was completed satisfactorily in July 1995. One hundred percent malfunction testing was completed along with all other simulator performance tests required by ANSI-3.5, 1985, "Nuclear Power Plant Simulators for Use in Operator Training," as endorsed by Regulatory Guide 1.149. Individuals from South Texas Project's plant operations, training and engineering organizations were involved in the testing program.

The simulator upgrade project testing results meet the performance requirements of ANSI-3.5, 1985. The areas of partial and non-compliance which were identified in Section 2 of the March 1, 1991 South Texas Project Simulator Certification Report have been corrected. Documentation of the simulator performance test results are maintained and available for review at the facility in accordance with 10CFR55.45(b) (5) (iii).

The March 1, 1995 South Texas Project Simulator Certification Report listed 1,554 malfunctions for testing. Of these, 186 malfunctions did not test satisfactory during the simulator upgrade project and are being tracked as discrepancies until corrected. Four additional malfunctions were added, tested, and accepted for training. The added malfunctions were for a Steam Generator Tube Rupture in the upper portion of the tube bundle.

As of August 2, 1995 there are 537 discrepancies against the simulator. These discrepancies will be corrected by the simulator vendor as prioritized by the South Texas Project. These identified discrepancies will be prioritized in accordance with station simulator configuration control procedures. Simulator discrepancy documentation is maintained by the South Texas Project and is available for review.

The discrepancies listed in Section E of the March 1, 1995 South Texas Project Report Simulator Certification Report have been corrected with the exception of number 1695 (core exit thermocouple response). Core exit thermocouple response is in the proper direction, but the magnitude of response requires resolution. This discrepancy will be scheduled for correction in accordance with station simulator configuration procedures.

All modifications listed in the March 1, 1991 South Texas Project Simulator Certification Report have been completed. However, during the testing of the simulator lighting modification, a software problem was discovered with the lighting relays. A discrepancy report was generated for correction in accordance with station simulator configuration control procedures. It is anticipated this software problem will be corrected by January 1996.