

The Light company

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

January 8, 1996
ST-HL-AE-5272
File No.: G20.02.01
10CFR50.90, 50.92

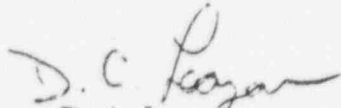
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Additional Information Regarding Proposed Special Test Exception 3.10.8
(TAC No. M92169/M92170)

In our letter dated May 1, 1995 (ST-HL-AE-5076), the South Texas Project proposed a change to the South Texas Project Units 1 and 2 Technical Specifications that would incorporate a Special Test Exception for an allowed outage of up to 21 days per cycle for each Standby Diesel. In our letter dated August 28, 1995 (ST-HL-AE-5141), the South Texas Project responded to Nuclear Regulatory Commission questions regarding the justification and implementation of the proposed Special Test Exception. The primary basis for the Special Test Exception is the South Texas Project's Probabilistic Safety Assessment, which demonstrates the risk of the Special Test Exception is acceptably small. The South Texas Project performed deterministic analyses to supplement the Probabilistic Safety Assessment basis for the proposed Special Test Exception. The Nuclear Regulatory Commission staff subsequently requested additional clarification on the containment temperature and pressure analysis performed to support the Probabilistic Safety Assessment bases for the submittal. The attachment to this submittal responds to that request.

As noted in our letter dated January 4, 1996 (ST-HL-AE-5261), the South Texas Project's three train design bases is not changed by the proposed Special Test Exception, and the Probabilistic Safety Assessment provides the primary justification for the acceptability of the Special Test Exception.

The South Texas Project responses are attached. If you have any questions, please contact me at 512-972-7795, or Mr. A. W. Harrison at 512-972-7298.

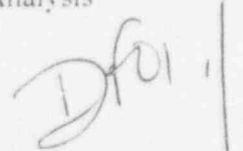

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Attachment: Response to Nuclear Regulatory Commission

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

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CONTAINMENT PRESSURE/TEMPERATURE ANALYSIS

LIST OF ASSUMPTIONS

	LOCA		MSLB	
	Single ESF-Train	Multiple ESF-Trains	Single ESF-Train	Multiple ESF-Trains
	Double Ended Pump Suction Guillotine with <u>Minimum</u> Safety Injection and Minimum Containment Heat Removal Systems in Operation	Double Ended Pump Suction Guillotine with <u>Maximum</u> Safety Injection and Minimum Containment Heat Removal Systems in Operation	102% Power, MSIV Failure with Minimum Containment Heat Removal Systems in Operation	102% Power, MSIV Failure with Minimum Containment Heat Removal Systems in Operation
Number of Spray trains operating	1	2	1	3
Spray flowrate	1885 gpm	3800 gpm	1885 gpm	4700 gpm
Spray initiation time	140 sec	82.6 sec	140 sec	90.6 sec
Number of RCFC trains operating	1	2	1	3
Number of RCFCs	1	3	1	5
RCFC initiation time	66.1 sec	38 sec	67.7 sec	67.7 sec
CCW temperature	125°F	110°F	125°F	110°F
CCW flow to each RCFC	1600 gpm	1800 gpm	1600 gpm	1800 gpm
Total CCW flow to all RCFCs used in the analysis	1600 gpm	5400 gpm	1600 gpm	9000 gpm

Figure 1A
LOCA Containment Temperature Profile

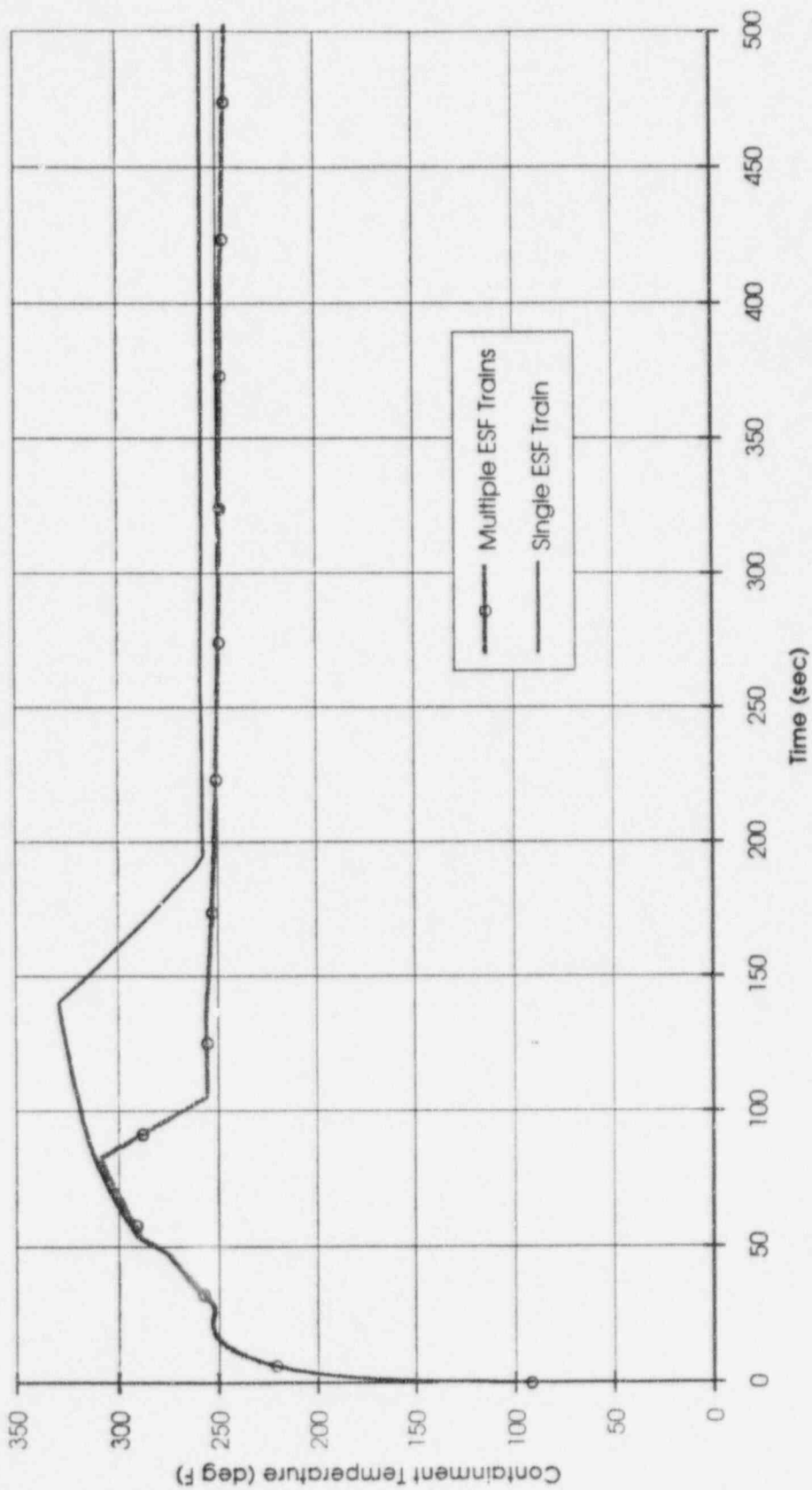


Figure 1B
LOCA Containment Pressure Profile

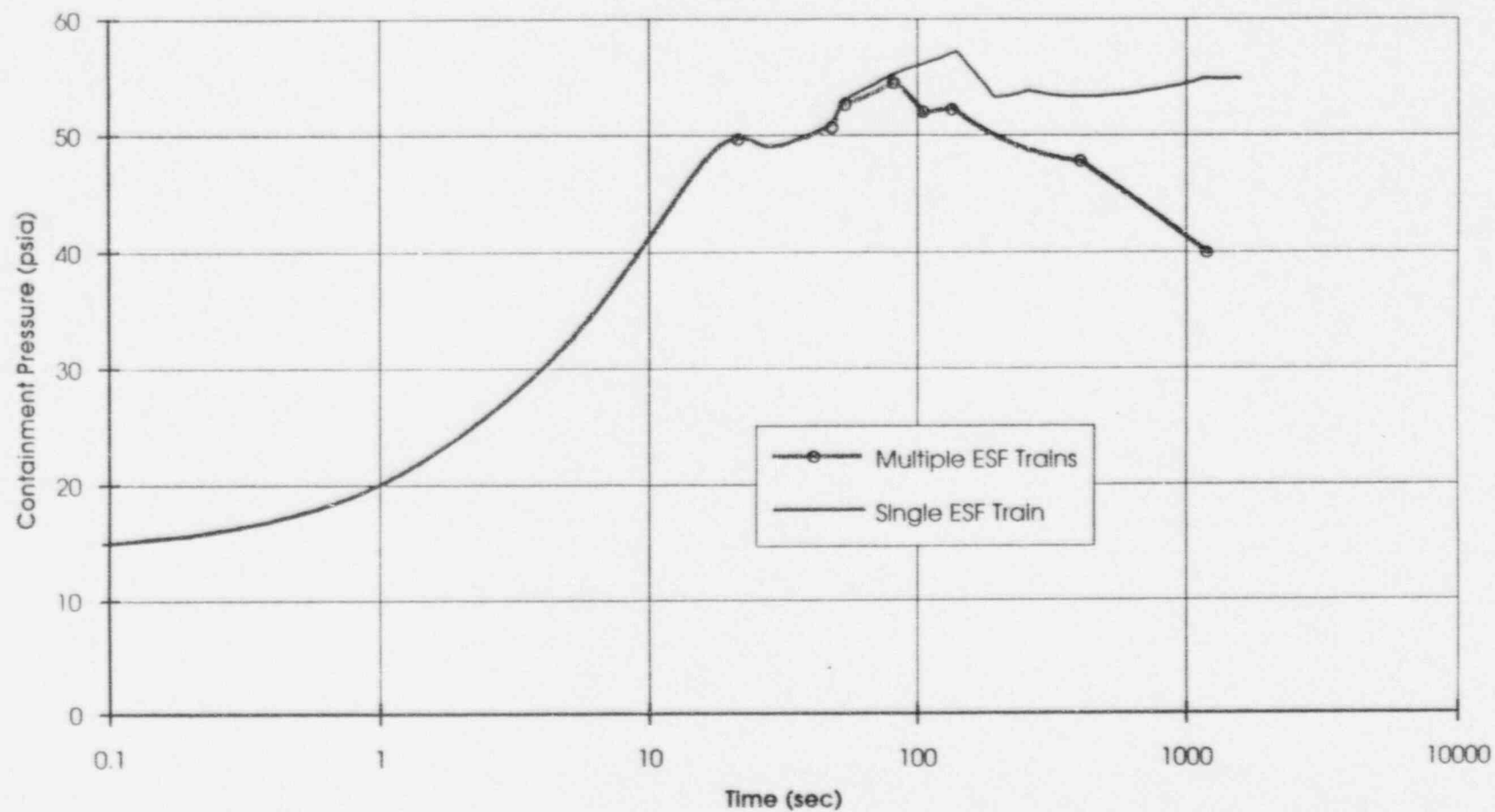


Figure 2A
MSLB Containment Temperature Profile

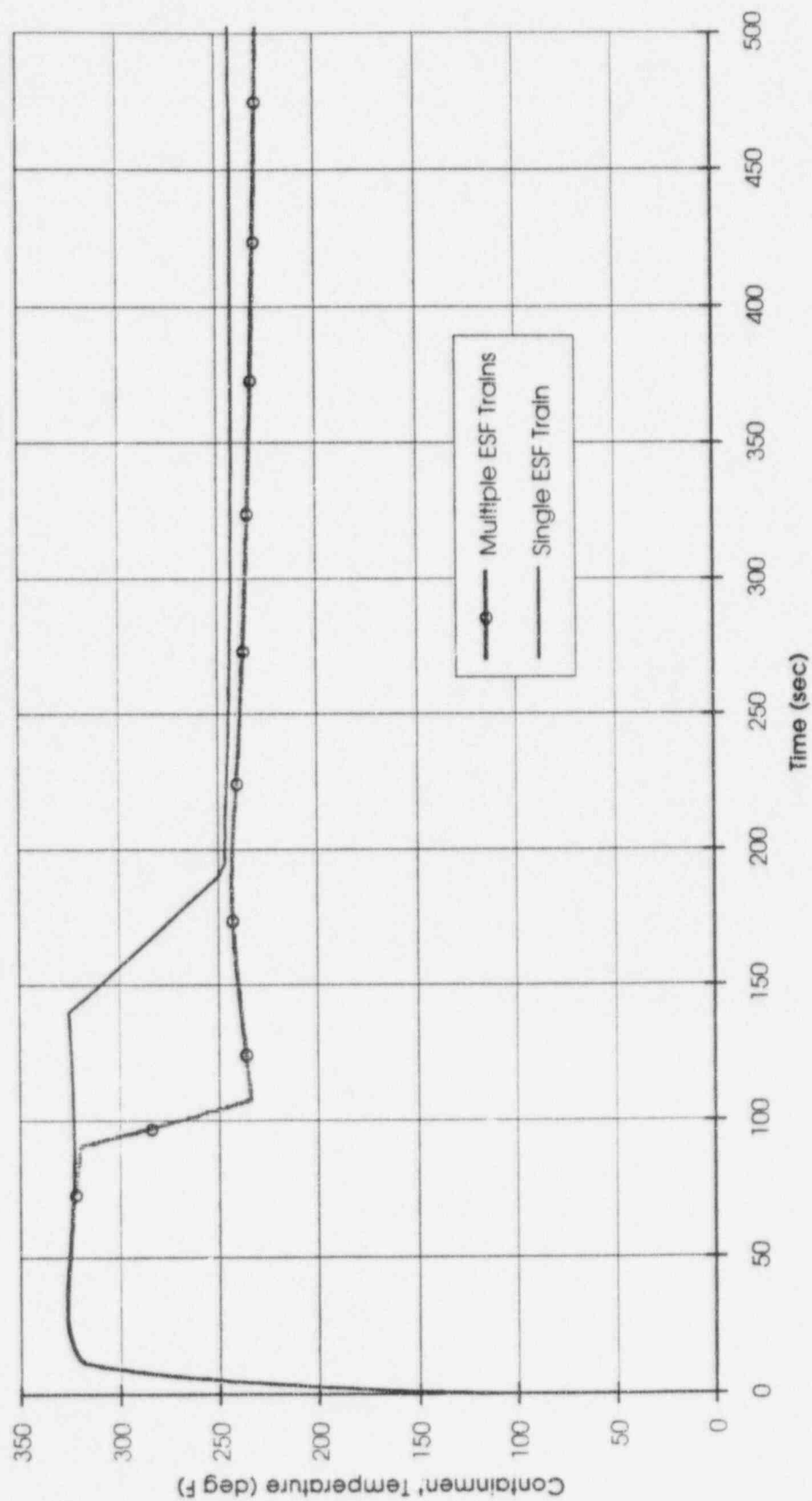


Figure 2B
MSLB Containment Pressure Profile

