



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

January 20, 2000
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File Nos.: G03.11, G03.17
M33.02
10CFR50.46

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
10CFR50.46 Annual Report of Essential Core Cooling System Model Revisions

- References: 1) Letter from D. A. Leazar to the NRC Document Control Desk, "10CFR50.46 Annual Report of ECC System Model Revisions," dated December 17, 1998 (NOC-AE-000390)
- 2) Letter from D. A. Leazar to the NRC Document Control Desk, "10CFR50.46 Thirty Day Report of Significant Changes to the Accepted Emergency Core Cooling System Model," dated October 19, 1999 (NOC-AE-000683)

Pursuant to 10CFR50.46(a)(3)(ii), the South Texas Project (STP) is submitting this annual report concerning revisions to the accepted Emergency Core Cooling System (ECCS) evaluation model at STP Units 1 and 2. There were no changes to the Small Break Loss of Coolant Accident (SBLOCA) evaluation model during 1999. As documented in Reference 2, the Large Break Loss of Coolant Accident (LBLOCA) Peak Cladding Temperature (PCT) increased from 2116 °F to 2192 °F as a result of the correction of errors in the LOCBART computer code. A detailed description of the LOCBART errors was provided in Reference 2.

Attached are the year end SBLOCA and LBLOCA PCT rackups for 1999. For the STP SBLOCA evaluation model the PCT is 1849 °F. For the LBLOCA evaluation model the PCT is 2192°F. The SBLOCA and revised LBLOCA evaluation models continue to meet the acceptance criteria identified in 10CFR50.46.

There are no new commitments contained in this letter. If you should have any questions concerning this matter, please contact Mr. Charles R. Albury at (361) 972-8901 or me at (361) 972-7795.


D. A. Leazar
Director
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jmw/

Attachment: 1999 YEAR END PEAK CLADDING TEMPERATURE RACKUPS

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ATTACHMENT:
1999 YEAR END PEAK CLADDING TEMPERATURE RACKUPS

Unit 1 and Unit 2 SBLOCA:

1998 / 1999 Year End SBLOCA PCT (Reference 1) 1849 °F

Unit 1 and Unit 2 LBLOCA:

1998 Year End LBLOCA PCT (Reference 1) 2116 °F

Change in LBLOCA PCT based on the 1999 limiting case reanalysis following
the correction of errors in the LOCBART code (Reference 2) + 76 °F

1999 Year End LBLOCA PCT 2192 °F