Nuclear Operating Company

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

December 17, 2002
NOC-AE-02001441
File No.: G25
10CFR50.46

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
10CFR50.46 Thirty-Day Report of Significant ECCS Model Changes

References: 1) Letter from D. A. Leazar to NRC Document Control Desk, "10CFR50.46 Annual Report of ECCS Model Revisions and 30 Day Report of Significant ECCS Model Changes," dated December 13, 2000 (NOC-AE-000980)

2) Letter from D. A. Leazar to NRC Document Control Desk, "10CFR50.46 Annual Report of ECCS Model Revisions," dated January 9, 2002 (NOC-AE-02001233)

Pursuant to 10CFR50.46(a)(3)(ii), the South Texas Project (STP) is submitting this thirty-day report of significant Emergency Core Cooling System (ECCS) changes for the STP Unit 2 Small Break Loss of Coolant Accident (LOCA) evaluation model.

In 2000, Westinghouse re-performed the Δ94 steam generator Small Break LOCA analysis to address errors discovered in the NOTRUMP code (Reference 1). The reanalysis, which has been tracked as an evaluation for Unit 1 since 2000, also included final "as-built" data for the Unit 1 Δ94 steam generators, a Westinghouse IMP database correction, and explicit modeling of annular blankets.

Concurrent with the completion of the Unit 2 steam generator replacement project, the STP Nuclear Operating Company is implementing the year 2000 Small Break LOCA reanalysis as the analysis of record for Units 1 and 2. With the implementation of the year 2000 Small Break LOCA reanalysis as the common Unit 1 / Unit 2 analysis of record, the Unit 1 Small Break LOCA Peak Clad Temperature (PCT) remains unchanged at 1578°F while the Unit 2 Small Break LOCA PCT decreases from 1951°F (Reference 2) to 1578°F. Since absolute value of the Unit 2 PCT change exceeds 50°F, the change is considered significant, in accordance with 10 CFR 50.46. No schedule for reanalysis is proposed since the Unit 2 Small Break LOCA PCT change is the result of a complete reanalysis and the PCT remains below the 10 CFR 50.46 limit of 2200°F. Attachment 1 provides the current Small Break LOCA ECCS analysis PCT rack-ups.

A001

If you should have any questions concerning this matter, please contact Mr. Safdar Hafeez at (361) 972-8906 or me at (361) 972-7795.

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jmw/kaw

Attachments: Small Break LOCA PCT Rack-ups

cc:
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ATTACHMENT 1
Small Break LOCA PCT Rack-ups

Unit 1 Small Break LOCA:

Unit 1 Small Break LOCA PCT (Reference 2)	1578 °F

Unit 2 Small Break LOCA:

2001 Year End Unit 2 Small Break LOCA PCT (Reference 2)	1951 °F
Adoption of Δ94 steam generator Small Break LOCA analysis	-373 °F
Revised Unit 2 Small Break LOCA PCT	1578 °F