



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

February 24, 2016  
NOC-AE-16003341  
10 CFR 50.46 (a)(3)(ii)

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

South Texas Project  
Unit 1  
Docket No. STN 50-498  
10 CFR 50.46 Thirty-Day Report of Significant ECCS Model Changes

References:

1. Letter from R.F. Dunn to NRC Document Control Desk, "10 CFR 50.46 ECCS Evaluation Model Significant Change/Error Report," dated October 17, 2012, NOC-AE-12002912 (ML12310A383)
2. Letter from R.F. Dunn to NRC Document Control Desk, "10 CFR 50.46 Thirty-Day Report of Significant ECCS Model Changes," dated July 7, 2014, NOC-AE-14003157 (ML14205A014)

In accordance with the requirements of 10 CFR 50.46 (a)(3)(ii), STP Nuclear Operating Company (STPNOC) is submitting a 30-day report for a significant change in the STP Unit 1 Emergency Core Cooling System (ECCS) Model. It was discovered that the 10 CFR 50.46 report was not issued within 30 days of STP Unit 1 reaching 100% rated thermal power which was achieved on December 30, 2015. Condition Report 16-2783 was written to address this oversight.

In Reference 2, STPNOC identified that the value for the hot assembly average rod Gamma Energy Deposition Model (GEDM) for Unit 1 Cycle 19, increased 0.0041 above the loss-of-coolant accident (LOCA) reload safety analysis checklist (RSAC) limit of 0.984. This change resulted in an estimated increase of 3°F in Peak Clad Temperature (PCT) from the 2117°F reported in Reference 1. For Unit 1 Cycle 20, there is no PCT penalty due to GEDM violation, so the 3°F penalty no longer applies, and PCT reduces from 2120°F back to 2117°F. Since the absolute value of PCT changes to the Analysis of Record exceeds 50°F, the change is considered significant in accordance with 10 CFR 50.46 (a)(3)(i).

No schedule for reanalysis is proposed since the Unit 1 Cycle 20 PCT remains below the 10 CFR 50.46(b)(1) limit of 2200°F.

There are no commitments in this letter.

If there are any questions regarding this information please contact Charlie Albury at 361-972-8901.

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A002  
NRR

cc:  
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