



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


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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  
Technical Specification Bases Change

The South Texas Project Technical Specification Bases Section 3/4.2.5 "DNB Parameters" has been changed pursuant to 10CFR50.59. This change revises the methodology for calculating Reactor Coolant System flow. This change in methodology results in an increase to the Baseline Calorimetric Flow that is used to calculate Reactor Coolant System Flow using the elbow tap methodology.

If there are any questions, please contact S. M. Head at (361) 972-7136 or me at (361) 972-7795.

  
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mkj

Attachment: Revised Technical Specification Bases Page 3/4 2-6 (1 page)

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## POWER DISTRIBUTION LIMITS

### BASES

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#### 3/4.2.5 DNB PARAMETERS (continued)

The value for thermal design RCS flow rate presented in Technical Specification 3.2.5 is an analytical limit. The minimum thermal design RCS flow rate with Model E Steam Generators is 370,000 gpm, and with Model Delta 94 Steam Generators is 392,000 gpm. To provide additional operating margin, a higher value for thermal design flow rate may be used if supported by cycle specific analysis. The minimum measured flow in the Core Operating Limits Report is the thermal design flow rate assumed for a particular cycle plus RCS flow measurement uncertainties. The RCS flow measurement uncertainty is 2.8% using the precision heat balance method or 2.1% using the elbow tap methods described in WCAP 15287, "RCS Flow Measurement for the South Texas Projects Using Elbow Tap Methodology", dated August, 1999. The elbow tap Dp measurement uncertainty presumes that elbow tap Dp measurements are obtained from either QDPS or the plant process computer. Based on instrument uncertainty assumptions, RCS flow measurements using either the precision heat balance or the elbow tap Dp measurement methods are to be performed at greater than or equal to 90% RTP at the beginning of a new fuel cycle.

The 12-hour periodic surveillance of these parameters through instrument readout is sufficient to ensure that the parameters are restored within their limits following load changes and other expected transient operation.