



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
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Technical Specification Bases Changes

South Texas Project Technical Specification Bases page B 2-4 is attached for your information and for updating the NRC copy of the Technical Specifications. Changes on the attached page reflect the analysis of the uncontrolled RCCA bank withdrawal at power event.

If there are any questions regarding these changes, please contact me at (361) 972-7136.

Scott M. Head

A handwritten signature in black ink, appearing to read 'Scott M. Head', is written over the printed name.

Manager, Licensing

mkj

Attachment: Revised Technical Specification Bases Page B 2-4

A001

cc:
(paper copy)

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ATTACHMENT

REVISED BASES PAGE B 2-4

LIMITING SAFETY SYSTEM SETTINGS

BASES

REACTOR TRIP SYSTEM INSTRUMENTATION SETPOINTS (Continued)

The various Reactor trip circuits automatically open the Reactor trip breakers whenever a condition monitored by the Reactor Trip System reaches a preset or calculated level. In addition to redundant channels and trains, the design approach provides a Reactor Trip System which monitors numerous system variables, therefore providing Trip System functional diversity. The functional capability at the specified trip setting is required for those anticipatory or diverse Reactor trips for which no direct credit was assumed in the safety analysis to enhance the overall reliability of the Reactor Trip System. The Reactor Trip System initiates a Turbine trip signal whenever Reactor trip is initiated. This prevents the reactivity insertion that would otherwise result from excessive Reactor Coolant System cooldown and thus avoids unnecessary actuation of the Engineered Safety Features Actuation System.

Manual Reactor Trip

The Reactor Trip System includes manual Reactor trip capability.

Power Range, Neutron Flux

In each of the Power Range Neutron Flux channels there are two independent bistables, each with its own trip setting used for a High and Low Range trip setting. The Low Setpoint trip provides protection during subcritical and low power operations to mitigate the consequences of a power excursion beginning from low power, and the High Setpoint trip provides protection during power operations to mitigate the consequences of a reactivity excursion from all power levels.

The Low Setpoint trip may be manually blocked above P-10 (a power level of approximately 10% of RATED THERMAL POWER) and is automatically reinstated below the P-10 Setpoint.

Power Range, Neutron Flux, High Rates

The Power Range High Positive Rate reactor trip provides protection against rapid flux increases which are characteristic of a rupture of a control rod drive housing or uncontrolled RCCA bank withdrawal at power. This trip complements the Power Range Neutron Flux High and Low reactor trip to ensure that the criteria are met for rod ejection from mid power. This trip, in conjunction with the Pressurizer Pressure High reactor trip ensures protection against reactor coolant system overpressurization for the uncontrolled RCCA bank withdrawal at power event.