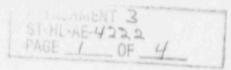
ATTACHMENT 3

Marked-up Current
South Texas Project Technical Specifications
Reflecting Proposed Changes
to the
Shutdown Margin Technical Specification

TSC\92-244.001

3/4.1 REACTIVITY CONTROL SYSTEMS



3/4 1.1 BORATION CONTROL

SHUTDOWN MARGIN - Tavo GREATER THAN 200°F

LIMITING CONDITION FOR OPERATION

3.1.1.1 The SHUTDOWN MARGIN shall be greater than or equal to the limit as shown in Figure 3.1-1.

APPLICABILITY: MODES 1, 2*, 3, and 4.

ACTION:

With the SHUTDOWN MARGIN less than the limit as shown in Figure 3.1-1, immediately initiate and continue boration at greater than or equal to 30 gpm of a solution containing greater than or equal to 7000 ppm boron or equivalent until the required SHUTDOWN MARGIN is restored.

SURVEILLANCE REQUIREMENTS

4.1.1.1 The SHUTDOWN MARGIN shall be determined to be greater than or equal to the limit as shown in Figure 3.1-1:

- a. Within I hour after detection of an inoperable control rod(s) and at least once per 12 hours thereafter while the rod(s) is inoperable. If the inoperable control rod is immovable or untrippable, the above required SHUTDOWN MARGIN shall be verified acceptable with an increased allowance for the withdrawn worth of the immovable or untrippable control rod(s):
- b. When in MODE 2 with $K_{\mbox{eff}}$ less than 1, within 4 hours prior to achieving reactor criticality by verifying that the predicted critical control rod position is within the limits of Specification 3.1.3.6;
- c. Prior to initial operation above 5% RATED THERMAL PUWER after each fuel loading, by consideration of the factors of Specification 4.1.1.1d. below, with the control banks at the maximum insertion limit of Specification 3.1.3.6; and

^{*}See Special Test Exceptions Specification 3.10.1.

3/4.1 REACTIVITY CONTROL SYSTE'S

3/4 1.1 BORATION CONTROL

SHUTDOWN MARGIN - T avg GREATER THAN 200°F

LIMITING CONDITION FOR OPERATION

3.1.1.1 The SHUTDOWN MARGIN shall be greater than or equal to the limit as shown in Figure 3.1-1.

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APPLICABILITY: MODES 1, 2*, 3, and 4.

ACTION:

With the SHUTDOWN MAKGIN less than the limit as shown in Figure 3.1-1, immediately initiate and continue boration at greater than or equal to 30 gpm of a solution containing greater than or equal to 7000 ppm boron or equivalent until the required SHUTDOWN MARGIN is restored.

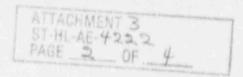
SURVEILLANCE REQUIREMENTS

4.1.1.1.1 The SHUIDOWN MARGIN shall be determined to be greater than or equal to the limit as shown in Figure 3.1-1:

- a. Within 1 hour after detection of an inoperable control rod(s) and at least once per 12 hours thereafter while the rod(s) is inoperable. If the inoperable control rod is immovable or untrippable, the above required SHUTDOWN MARGIN shall be verified acceptable with an increased allowance for the withdrawn worth of the immovable or untrippable control rod(s);
- b. When in MODE 2 with K_{eff} less than 1, within 4 hours prior to achieving reactor criticality by verifying that the predicted critical control rod position is within the limits of Specification 3.1.3.6;
- c. Prior to initial operation above 5% RATED THERMAL POWER after each fuel loading, by consideration of the factors of Specification 4.1.1.1.1d. below, with the control banks at the maximum insertion limit of Specification 3.1.3.6; and

^{*}See Special Test Exceptions Specification 3.10.1.

REACTIVITY CONTOUL SYSTEMS

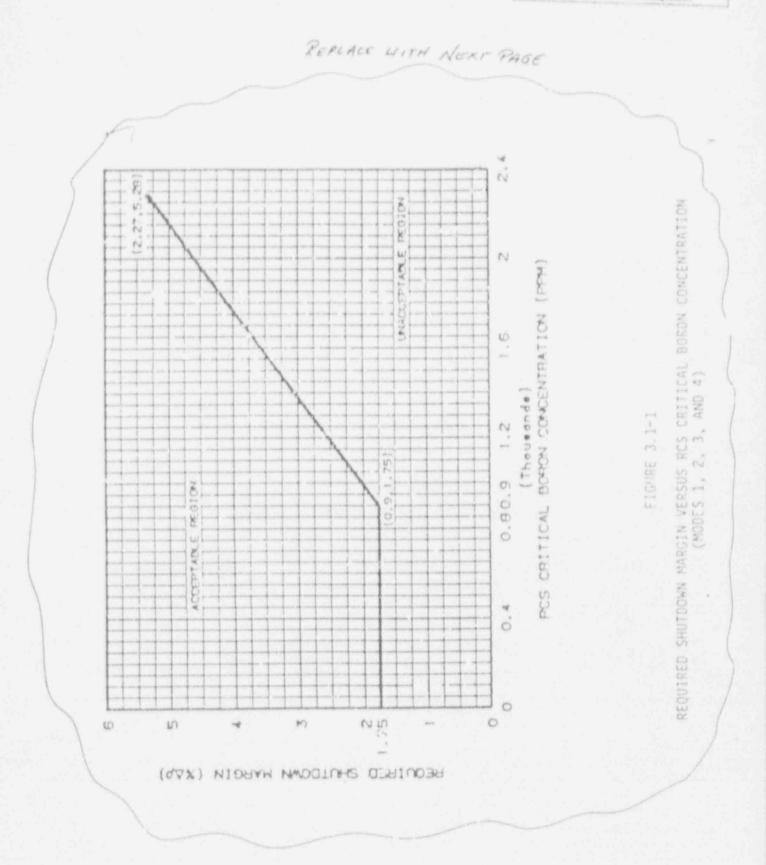


SURVEILLANCE REQUIREMENTS (Continued)

- When in MODE 3 or 4, at least once per 24 hours by consideration of the following factors:
 - Reactor Coolant System boron concentration.
 - 2) Control rod position.
 - 3) Reactor Coolant System average temperature,
 - 4) fuel burnup based on gross thermal energy generation,
 - 5) Xenon concentration, and
 - 6) Samarium concentration.

4.1.1.1.2 The overall core reactivity balance shall be compared to predicted values to demonstrate agreement within ± 1% $\Delta k/k$ at least once per 31 Effective Full Power Days (EFPD). This comparison shall consider at least those factors stated in Specification 4.1.1.1.1d., above. The predicted sactivity values shall be adjusted (normalized) to correspond to the actual core conditions prior to excer " g a fuel burnup of 60 EFPD after each fuel loading. The

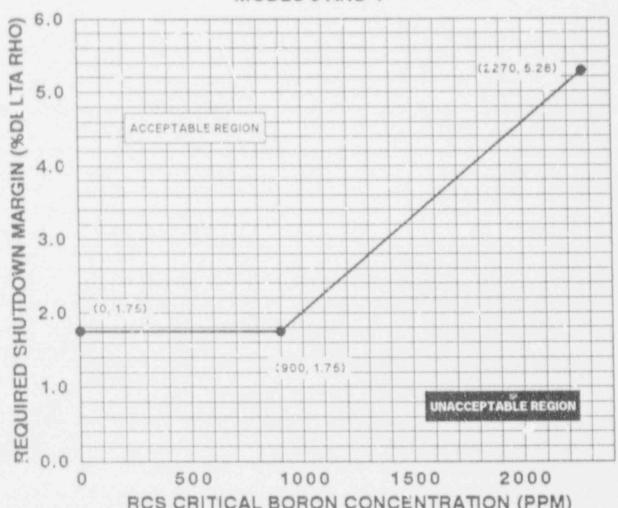
provisions of specification 4.04 are not applicable.



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FUR MODES 1 AND 2: 1.75% DELTA RHO

REQUIRED SHUTDOWN MARGIN MODES 3 AND 4



RCS CRITICAL BORON CONCENTRATION (PPM)
for ARI Minus Most Reactive Stuck Rod

FIGURE 3.1-1

REQUIRED SHUTDOWN MARGIN VERSUS RCS CRITICAL BORON CONCENTRATION