

## PMSTPCOL PEmails

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**From:** Govan, Tekia  
**Sent:** Wednesday, May 13, 2009 12:37 PM  
**To:** 'rhscheide@stpegs.com'  
**Cc:** STPCOL  
**Subject:** DRAFT RAIs  
**Attachments:** RAI 2627.doc; RAI 2570.doc

Dick,

Please review the attached RAIs. If you feel we need a conference call to clarify the requested information, please contact me. If a conference call is not needed (please send an email) I will continue the formal process of issuing the RAIs to STPNOC.

These RAIs relates to section 5.4.

Thanks  
Tekia

Tekia V. Govan, Project Manager  
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**Hearing Identifier:** SouthTexas34Public\_EX  
**Email Number:** 1228

**Mail Envelope Properties** (83F82891AF9D774FB39974B6CB134F92A7A9DA32)

**Subject:** DRAFT RAIs  
**Sent Date:** 5/13/2009 12:36:43 PM  
**Received Date:** 5/13/2009 12:36:45 PM  
**From:** Govan, Tekia

**Created By:** Tekia.Govan@nrc.gov

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Tracking Status: None

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	571	5/13/2009 12:36:45 PM
RAI 2627.doc	30714	
RAI 2570.doc	30202	

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

Request for Additional Information No. 2627 Revision 2

South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 05.04.07 - Residual Heat Removal (RHR) System  
Application Section: 5.4.7 Appendix 5B

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

05.04.07-\*\*\*

Appendix 5B in Tier 2 of the ABWR DCD provides an analysis to support inspections, tests, analyses, and confirmations of the Residual Heat Removal (RHR) System. STP submitted administrative changes to several equations and values in Appendix 5B.

- (a) Section 5B.2.3 The staff requests that STP clarify the bases for these changes, including the definition of HMin and H954. The staff also requests that STP discuss the difference in the vent line configuration shown in Figure 5B-1 for the RHR System and Figure 6D-1 for the High Pressure Core Flooder (HPCF) System.
- (b) Section 5B.3 (b) the heat removal capacity of the RHR heat exchanger was changed from 370.5 kj/sec/degrees/centigrade to  $4.27 \times 10^5$  W/ degrees C. Explain the conversion of the units from kj/sec/degrees/centigrade to W/degrees centigrade. Also explain why the units for Q are deleted.

Request for Additional Information No. 2570 Revision 02

South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 05.04.06 - Reactor Core Isolation Cooling System (BWR)  
Application Section: 5.4.6

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

05.04.06-\*\*\*

Table 5.4-1a in the DCD provided values for NPSH available, NPSH required, and Margin. The applicant replaced these values with a formulation with variables of HF and HST. In Table 5.4-2, NPSH changed from 7.3m to 7.0 m. Provide justification of the changes and assure that sufficient NPSH margin will be maintained.