

## PMSTPCOL PEmails

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**From:** Tai, Tom  
**Sent:** Tuesday, May 19, 2009 1:17 PM  
**To:** Agles, James  
**Cc:** STPCOL  
**Subject:** Draft RAI 2607 for Chapter 9.2.4  
**Attachments:** RAI 2607 09.02.04-xx.doc

James,

Please review the attached RAI (09.02.04-xx). If you need a conference call to clarify the requested information, please contact me. If a conference call is not needed, please send me an email and I will continue the formal process of issuing the RAI to STPNOC.

Regards

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**Hearing Identifier:** SouthTexas34Public\_EX  
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**Subject:** Draft RAI 2607 for Chapter 9.2.4  
**Sent Date:** 5/19/2009 1:17:28 PM  
**Received Date:** 5/19/2009 1:17:29 PM  
**From:** Tai, Tom

**Created By:** Tom.Tai@nrc.gov

**Recipients:**  
"STPCOL" <STP.COL@nrc.gov>  
Tracking Status: None  
"Agles, James" <jaagles@STPEGS.COM>  
Tracking Status: None

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Request for Additional Information No. 2607 Revision 2

South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 09.02.04 - Potable and Sanitary Water Systems  
Application Section: 9.2.4

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

09.02.04-\*\*\*

STP DEP 9.2-8, "Potable and Sanitary Water System," addresses several plant modifications, including the change from a single unit to dual units (STP 3&4) that is described in STP DEP 1.1-2. The change from a single unit to a dual unit design means that there may be the possibility for radioactive contamination introduced into the PSW at one unit to spread into another unit by means of shared equipment and/or cross-connections. Per the STP COL, the sewage treatment and sanitary drainage systems will collect and process sanitary waste for all four units at the site. However, the STP COL does not appear to explicitly indicate whether or not there are any cross-connections between potable water supply systems.

Section 3 of the Departures Report indicates that STP DEP 9.2-8 has been evaluated and determined to comply with the requirements of 10 CFR 52, Appendix A, Section VIII.B.5. However, the staff has not been able to find enough information to determine the acceptability of the applicant's evaluation per the requirements in 10 CFR 52, Appendix A, Section VIII.B.5. Specifically, the applicant did not address how the proposed PSW System design precludes the potential for cross-contamination between units in the event radiological contamination occurs in one unit's PSW System. A review of the design for potential cross-contamination is also consistent with the acceptance criteria specified in Standard Review Plan (SRP) 9.2.4 related to multi-unit facilities. More specifically, SRP 9.2.4, Subsection II specifies an evaluation be performed to determine the potential for radiological contamination that includes consideration of the safety implications of sharing between multi-unit facilities.

Describe how the proposed PSW System design precludes the potential for cross-contamination between units. Include this information in the STP COL FSAR and provide a markup in your response.

09.02.04-\*\*\*

In section 9.2.4 of the STP COL application, Figure 9.2-9, "Potable and Sanitary Water System (Sheet 1 of 2)," is provided, however, sheet 2 of 2 for Figure 9.2-9 was not included. Furthermore, Figure 9.2-9 is not included in Chapter 21 of the FSAR. Please provide Figure 9.2-9, sheet 2 of 2.