

## PMSTPCOL PEmails

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**From:** Joseph, Stacy  
**Sent:** Monday, July 26, 2010 8:12 PM  
**To:** 'gscashell@stpegs.com'  
**Cc:** STPCOL  
**Subject:** Draft Ch. 14 RAIs  
**Attachments:** RAI 4861.doc; RAI 4862.doc

Steve,

Please review the attached draft RAIs related to Chapter 14 Initial Plant Testing and ITAAC. There are also related to Chapter 10. Please let me know if you need a telecom to clarify the RAIs.

Thank you,  
Stacy

**Hearing Identifier:** SouthTexas34Public\_EX  
**Email Number:** 2362

**Mail Envelope Properties** (BBC4D3C29CD0E64E9FD6CE1AF26D84D52747BC96C1)

**Subject:** Draft Ch. 14 RAIs  
**Sent Date:** 7/26/2010 8:11:40 PM  
**Received Date:** 7/26/2010 8:12:40 PM  
**From:** Joseph, Stacy

**Created By:** Stacy.Joseph@nrc.gov

**Recipients:**  
"STPCOL" <STP.COL@nrc.gov>  
Tracking Status: None  
"gscashell@stpegs.com" <gscashell@stpegs.com>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	227	7/26/2010 8:12:40 PM
RAI 4861.doc	26690	
RAI 4862.doc	31226	

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

Request for Additional Information No. 4861 Revision 3

South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants  
Application Section: 14.2

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

14.02-\*\*\*

SRP Section 14.2, Item 5 under SRP Acceptance Criteria, specifies that applicants should provide abstracts of planned tests to demonstrate and verify the performance capabilities of SSCs and design features that serve functions that are important to safety. The staff found that the description provided in FSAR Section 10.2 is not properly reflected in Test 14.2.12.1.64. In particular, the test description needs to be revised to replace the designation of combined intermediate valves (CIV) with intermediate stop and intercept valves. This change also needs to be made for Test 14.2.12.1.70.

Request for Additional Information No. 4862 Revision 3

South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013

SRP Section: 14.03.07 - Plant Systems - Inspections, Tests, Analyses, and Acceptance Criteria  
Application Section: 14.3.7

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

14.03.07-\*\*\*

The review procedures in SRP Section 14.3.7 provide guidance for determining the acceptability of proposed inspections, tests, analyses, and acceptance criteria (ITAAC). The SRP guidance specifies in part that all Tier 1 information must be consistent with Tier 2 information. Tier 1 Section 2.10 provides ITAAC for power cycle systems (which include the main turbine and turbine control system). Although Tier 1 Section 2.10 of the STP COL application indicates that this section is incorporated by reference with no departures or supplements, the staff found that the following items need to be addressed:

- 1) A figure is included in Tier 1 Section 2.10 of the STP COL application that has no title but appears to show changes to gland sealing steam for the high-pressure and low-pressure turbines. Consequently, the STP COL application needs to be revised to resolve this inconsistency.
- 2) The information in Tier 1 Section 2.10.7, "Main Turbine," that is incorporated by reference from the ABWR DCD is not fully applicable to STP Units 3 and 4. For example, the Tier 1 information indicates that intermediate stage turbines and combined intermediate valves are included in the design, but this is not the case for STP Units 3 and 4 based on the description provided in FSAR Section 10.2. Consequently, the STP COL application needs to be revised to resolve this inconsistency