

## PMSTPCOL PEmails

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**From:** Tai, Tom  
**Sent:** Wednesday, October 28, 2009 9:26 AM  
**To:** Price, John E  
**Cc:** STPCOL; Mookhoek, William; Ray, Neil; Scarbrough, Thomas; Tonacci, Mark  
**Subject:** November 10 & 12, 2009 Audit  
**Attachments:** CIB2 Audit Plan.doc

John,

Attached for your information is our audit plan for November 10 and 12, 2009. We will be visiting the Westinghouse office in Rockville, MD on November 10, 2009 at 9 AM. This audit is closed to the public because proprietary information will be discussed.

Please let me know if you have any questions.

Regards

Tom Tai  
DNRL/NRO  
(301) 415-8484  
[Tom.Tai@NRC.GOV](mailto:Tom.Tai@NRC.GOV)

**Hearing Identifier:** SouthTexas34Public\_EX  
**Email Number:** 1847

**Mail Envelope Properties** (0A64B42AAA8FD4418CE1EB5240A6FED102BDC47448)

**Subject:** November 10 & 12, 2009 Audit  
**Sent Date:** 10/28/2009 9:26:16 AM  
**Received Date:** 10/28/2009 9:26:18 AM  
**From:** Tai, Tom

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

**Recipients:**

"STPCOL" <STP.COL@nrc.gov>  
Tracking Status: None  
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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	412	10/28/2009 9:26:18 AM
CIB2 Audit Plan.doc	43514	

**Options**

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

**AUDIT PLAN FOR NRC REVIEW OF INSERVICE TESTING AND ENVIRONMENTAL  
QUALIFICATION OPERATIONAL PROGRAM DESCRIPTIONS,  
AND NEW RCIC TURBINE-PUMP DESIGN FOR  
STPNOC UNITS 3 AND 4 COMBINED LICENSE APPLICATION**

APPLICANT: South Texas Project Nuclear Operating  
Company (STPNOC)

APPLICANT CONTACT: Scott Head  
Bill Mookhoek, at, el

TIME: 9:00 am to 5:00 pm on November 10, 2009  
9:00 am to 12:00 pm on November 12, 2009

LOCATION: STPNOC/Westinghouse Office, Rockville, MD

REVIEWERS: Tom Tai (NRO/DNRL/NGE-2)  
Thomas Scarbrough (NRO/DE/CIB2)  
James Strnisha (NRO/DE/CIB1)

**BACKGROUND**

On September 20, 2007, South Texas Project Nuclear Operating Company (STPNOC) submitted to the U.S. Nuclear Regulatory Commission (NRC) a Combined License (COL) application to construct and operate two additional units (Units 3 and 4) based on the U.S. Advanced Boiling Water Reactor (ABWR) Design Control Document (DCD) at the South Texas Project Nuclear Power Plant (STPNPP) site located in the county of Matagorda near Bay City, Texas.

The NRC staff is reviewing the Final Safety Analysis Report (FSAR) provided with the STP Units 3 & 4 COL application that incorporates by reference the ABWR DCD. The Component Integrity, Performance, and Testing Branch 2 (CIB2) proposes to conduct an audit in support of this review. The NRC staff will perform the audit at the Westinghouse office in Rockville, Maryland. The NRC staff will follow the guidance in NRO Office Instruction NRO-REG-108, "Regulatory Audits," in performing this audit.

**PURPOSE AND APPROACH**

There are three primary purposes for this audit. First, the audit will provide for NRC review of information that supports the description of the operational programs for inservice testing (IST), motor-operated valve (MOV) testing, and environmental qualification (EQ) to be developed for STP Units 3 & 4. Second, the audit will provide for NRC review of the new design for the turbine-pump used in the reactor core isolation cooling (RCIC) system. Third, the audit will provide for NRC review of the bases for STP

departures from the ABWR DCD related to the IST program. The audit approach will involve detailed discussions of the STP responses to NRC requests for additional information (RAIs) for these operational programs and new RCIC turbine-pump design, and review of plant-specific information to be made available by STP personnel, to allow completion of the NRC review of these technical areas for the STP Units 3 & 4 COL application.

## **AUDIT ACTIVITIES AND SCHEDULE**

The NRC staff will conduct the audit over a period of two business days. The review of technical document and interview with STP responsible engineers will be conducted on November 10, 2009. Any follow-up actions in response to audit findings will be discussed on November 12, 2009. The NRC staff may request an ad-hoc extension of the audit if deemed necessary. Such an extension will be requested before the meeting is adjourned on November 10, 2009, by the NRC staff responsible for the audit.

Following the audit, the NRC staff responsible for the audit will prepare a final audit report. The final report will be made available to all contributors.

The audit agenda is provided in Attachment A. Attachment B is a summary of the topics of interest. Please contact Tom Tai at 301-415-8484 or at [Tom.Tai@NRC.GOV](mailto:Tom.Tai@NRC.GOV) if you have any questions related to the audit.

**Attachment A**

**Proposed Agenda  
NRC STP COLA Operational Program Audit  
November 10 and 12, 2009  
South Texas Project Nuclear Operating Company**

**Tuesday, November 10, 2009: AUDIT - Proprietary**

<b>9:00 am - 9:15 am</b>	Entrance / Introduction .....	[NRC/STPNOC]
<b>9:15 am - 12:00 pm</b>	IST, MOV Testing, and EQ Program Review .....	[NRC/STPNOC]
<b>12:00 pm - 1:00 pm</b>	Lunch	
<b>1:00 pm - 2:45 pm</b>	RCIC Turbine-Pump Design Review .....	[NRC/STPNOC]
<b>2:45 pm - 3:00 pm</b>	Break	
<b>3:00 pm - 4:00 pm</b>	IST Departure Review .....	[NRC/STPNOC]
<b>4:00 pm - 5:00 pm</b>	Audit Findings Discussion .....	[NRC]

**Thursday, November 12, 2009: AUDIT - Proprietary**

<b>9:00 am - 9:30 am</b>	Audit Findings Summary .....	[NRC]
<b>9:30 am - 10:15 am</b>	STP Responses to Audit Findings .....	[STPNOC]
<b>10:15 am - 10:30 am</b>	Break	
<b>10:30 am - 11:30 am</b>	Followup Actions and Resolution Plan .....	[NRC/STPNOC]
<b>11:30 am - 12:00 pm</b>	Closing Remarks .....	[NRC]
<b>12:00 pm</b>	Adjourn	

## **Attachment B**

### **Audit Scope**

#### **1. STP Operational Programs for Inservice Testing (IST), Motor-Operated Valve (MOV) Testing, and Environmental Qualification.**

The NRC staff will evaluate the description of the IST, MOV Testing, and EQ operational programs provided in the STP FSAR and the ABWR DCD using guidance in Commission Paper SECY-05-0197, Regulatory Guide 1.206, and Standard Review Plan Sections 3.9.6 and 3.11. The staff will discuss with STP personnel follow-up items from its review of STP responses to NRC requests for additional information (RAIs) on these programs. The staff will review the implementation of the ABWR provisions for the IST, MOV Testing, and EQ operational programs based on a sample review of design and procurement specifications.

#### **2. Reactor Core Isolation Cooling (RCIC) Turbine-Pump Design**

The NRC staff will evaluate the new RCIC turbine-pump design described in STP FSAR Sections 5.4.6 and 6.3. The staff will discuss with STP personnel follow-up items from its review of STP responses to RAIs on the new RCIC turbine-pump design. The staff will review the new RCIC turbine-pump design as a departure requiring prior NRC approval.

#### **3. Departures not requiring prior NRC Approval**

The NRC staff will evaluate a sample of departures related to the IST program identified in STP COL Application, Part 7, as not requiring prior NRC approval. For example, the staff will review STP DEP 6.2-3, "Containment Penetrations and Isolation," for consistency with the description of the IST operational program for STP Units 3 & 4. The staff will also review STP DEP 9.5-2, "Lower Drywell Flooder Fusible Plug Valve," to evaluate the treatment of this safety-related component consistent with the IST operational program description and the system description in STP FSAR Section 9.5.12, "Lower Drywell Flooder."