

PMSTPCOL PEmails

From: Tai, Tom
Sent: Friday, February 25, 2011 3:25 PM
To: Price, John E; Head, Scott
Cc: STPCOL; Wunder, George; Tonacci, Mark
Subject: STP - March 14 Audit Scope
Attachments: Seismic Audit Plan & IOM 10-22-2010.doc

John, Scott,

Our Tech staff and contractors are currently reviewing the position papers and RAI responses to compile issues that we want to come to a better resolution during the March audit. I'm still planning to forward you a draft about March 4. However, a comment I heard from last week's phone call concerned me, and I need some clarification to make sure the scope and plan we provide is effective. The comment from last week was about the previous audit (October 2010). It almost sounded as if we did not provide a clear plan and S&L had to make everything available for our staff. But when I retrieve the agenda from the October audit, the topic of discussion for each and every day was quite specific. I'm not sure what the NINA/S&L comment specifically referred to.

Attached for your convenience is a copy of the October audit plan which you can also retrieve from ADAMS. I was planning to issue the March plan similar to the October format and details. But if NINA and S&L consider this too vague, please let me know.

Regards

Tom Tai
DNRL/NRO
(301) 415-8484
Tom.Tai@NRC.GOV

Hearing Identifier: SouthTexas34Public_EX
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Mail Envelope Properties (0A64B42AAA8FD4418CE1EB5240A6FED125D2549FB0)

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From: Tai, Tom

Created By: Tom.Tai@nrc.gov

Recipients:

"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"Wunder, George" <George.Wunder@nrc.gov>
Tracking Status: None
"Tonacci, Mark" <Mark.Tonacci@nrc.gov>
Tracking Status: None
"Price, John E" <jeprice@STPEGS.COM>
Tracking Status: None
"Head, Scott" <smhead@STPEGS.COM>
Tracking Status: None

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October 5, 2010

MEMORANDUM TO: Mark Tonacci, Chief
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Tom Tai, Senior Project Manager
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: OCTOBER 18 - 22, 2010, AUDIT OF SOUTH TEXAS NUCLEAR
OPERATING COMPANY COMBINED LICENSE APPLICATION
SEISMIC DESIGN AND SUPPORTING ANALYSES

By letter dated September 24, 2008, South Texas Nuclear Operating Company (STPNOC, applicant) submitted Revision 2 of the South Texas Project (STP) Units 3 and 4 Combined License Application (COLA). The staff has identified a need to audit the seismic design and supporting analyses that support STP Units 3 and 4 COLA. The audit will take place at the Sargent and Lundy office in Chicago, Illinois from October 18 to 22, 2010. A copy of the audit plan is enclosed.

Docket Nos.: 52-012
52-013

Enclosure:
As stated

CONTACT: Tom Tai, NRO/DNRL
301-415-8484

October 5, 2010

MEMORANDUM TO: Mark Tonacci, Chief
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Tom Tai, Senior Project Manager
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

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CONTACT: Tom Tai, NRO/DNRL
301-415-8484

DISTRIBUTION:

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LPLI-1 R/F	MTonacci, NRO	KHawkins, NRO
BAbeywickrama, NRO	GWunder, NRO	TTai, NRO

ADAMS Accession No:

NRO-002

OFFICE	DNRL/BWR/PM	DNRL/BWR /LA	DE/SEB2/TR	DE/SEB2 /BC	DNRL/BWR/PM
NAME	TTai	BAbeywickrama	SChakrabarti/ MChakravorty	KHawkins	GWunder
DATE					

OFFICIAL RECORD COPY

**AUDIT PLAN TO REVIEW SEISMIC DESIGN AND ANALYSES
STPNOC UNITS 3 AND 4 COMBINED LICENSE APPLICATION**

APPLICANT: South Texas Project Nuclear Operating Company (STPNOC)

APPLICANT CONTACT: Scott Head
John Price
Bill Mookhoek, at, el

TIME: 8:30 am to 5:00 pm on October 18 to 22, 2010

LOCATION: 55 E. Monroe St.
Chicago, IL 60603

REVIEWERS: Kim Hawkins (NRO/DE/SEB2)
Samir Chakrabarti (NRC/DE/SEB2)
Manas Chakravorty (NRC/DE/SEB2)
Mansour Tabatabaie (NRC Consultant)
M. K. Ravindra (NRC Consultant)
Peter Arnold (NRC Consultant)
Michael Eudy (NRO/DNRL/BWR)

BACKGROUND

On September 20, 2007 South Texas Project Nuclear Operating Company (STPNOC) submitted to the U.S. Nuclear Regulatory Commission (NRC), a Combined License Application (COLA) Final Safety Analysis Report (FSAR) to construct and operate two additional units (Units 3 and 4) based on the U.S. Advanced Boiling Water Reactor (ABWR) Certified Design Control Documents (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 STP Units 3 & 4 combined license (COL) application that incorporates by reference the design certification for the Advanced Boiling Water Reactor (ABWR). Due to the number of open items and the need to perform a comprehensive review, the Structural Engineering Branch 2 (SEB2) proposes to conduct an audit in support of the review of Chapters 3.7 and 3.8. The NRC staff will perform the audit at the Sargent & Lundy office in Chicago, Illinois. The NRC staff will follow the guidance in NRO Office Instruction NRO-REG-108, "Regulatory Audits," in performing this audit.

PURPOSE AND APPROACH

The purpose of this audit is to review analyses performed to support the seismic design and analyses for the STP Units 3&4 COL application. Some of these calculations are proprietary. Any significant findings during the audit will be documented in the audit report and RAIs may be issued for scheduled action.

AUDIT ACTIVITIES AND SCHEDULE

The NRC staff will conduct the audit from October 18 to 22, 2010. 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 October 22, 2010 by the NRC staff responsible for the audit.

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

The audit agenda is provided in Attachment A. Please contact Tom Tai at 301-415-8484 or at Tom.Tai@NRC.GOV if you have any questions related to the audit.

Attachment A

Proposed Agenda NRC STP COLA Seismic Analyses Audit October 18 - 22, 2010 South Texas Project Nuclear Operating Company

Monday, October 18, 2010: AUDIT - Proprietary

8:30 am - 9:00 am	Entrance / Introduction [NRC/STPNOC]
9:00 am - 12:00 pm	Seismic Reconciliation of RB and CB with Standard Design (Ch 3.7) Use of Newer Code Versions after Certification (Ch 3.8) [NRC]
12:00 pm - 1:00 pm	Lunch
1:00 pm – 4:30 pm	Effects of Retaining Wall Construction on Dynamic Soil Pressure (Ch 3.7) Flood Design Issues (Ch 3.8) [NRC]
4:30 pm – 5:00 pm	Summary for the Day and Actions [NRC/STPNOC]

Tuesday, October 19, 2010: AUDIT - Proprietary

8:30 am - 9:00 am	Review Plan and Scope of the Day [NRC/STPNOC]
9:00 am - 12:00 pm	Ground Motions for Seismic Analyses of UHS Basin, RSWPH, & RSW Tunnel (Ch 3.7) Structural Design Issues for Standard Plant Structures (Ch 3.8) [NRC]
12:00 pm - 1:00 pm	Lunch
1:00 pm – 4:30 pm	Site Specific Seismic Analyses of UHS Basin & RSW PH (Ch 3.7) Basemat and Foundation and Tornado Load Issues (Ch 3.8)..... [NRC]
4:30 pm – 5:00 pm	Summary for the Day and Actions [NRC/STPNOC]

Wednesday, October 20, 2010: AUDIT - Proprietary

8:30 am - 9:00 am	Review Plan and Scope of the Day [NRC/STPNOC]
9:00 am - 12:00 pm	Site Specific Seismic Analyses of RSW Piping Tunnel (Ch 3.7) Structural Design Issues for Site Specific Category I Structures (Ch 3.8).. [NRC]
12:00 pm - 1:00 pm	Lunch
1:00 pm – 4:30 pm	Computer Software Validation and verification (Ch 3.7)

4:30 pm – 5:00 pm Summary for the Day and Actions [NRC/STPNOC]

Thursday, October 21, 2010: AUDIT - Proprietary

8:30 am - 9:00 am Review Plan and Scope of the Day [NRC/STPNOC]

9:00 am - 12:00 pm Site Specific Seismic Analyses of DGFOS Vault (Ch 3.7)
Validation of Computer Codes (Ch 3.8)..... [NRC]

12:00 pm - 1:00 pm Lunch

1:00 pm – 4:30 pm Site Specific Seismic Analyses of DGFOS Tunnel (Ch 3.7)
Containment Structural Integrity Test (Ch 3.8) [NRC]

4:30 pm – 5:00 pm Summary for the Day and Actions [NRC/STPNOC]

Friday, October 22, 2010: AUDIT - Proprietary

8:30 am - 9:00 am Review Plan and Scope of the Day [NRC/STPNOC]

9:00 am - 12:00 pm Site Specific Seismic Analyses of Radwaste Building (Ch 3.7)
Review Seismic Stability Calculations for Site Specific Structures (Ch 3.7)
Review of Non-Category I Control Building Annex (Ch 3.7)
Design of SSC with Seismic II/I Interaction Potential (Ch 3.8) [NRC]

12:00 pm - 1:00 pm Lunch

1:00 pm – 3:00 pm Site Specific Seismic Analyses of UHS Basin & RSW PH (Ch 3.7)
Basemat and Foundation and Tornado Load Issues (Ch 3.8)..... [NRC]

3:00 pm – 3:30 pm NRC Caucus [NRC]

3:30 pm – 4:30 pm Exit [NRC/STPNOC]