PMSTPCOL PEmails

From: Tai, Tom
Sent: Thursday, June 11, 2009 11:29 AM
To: John Price (jeprice@stpegs.com)
Cc: STPCOL
Subject: Draft RAI 2964 on Chapter 3.8.4
Attachments: RAI 2964 03.08.04-xx.doc

John,

Please review the attached RAI (03.08.04-xx) for Chapter 3.8.4 and Appendix 3H 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
Email Number: 1301

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Recipients:
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"John Price (jeprice@stpegs.com)" <jeprice@stpegs.com>
Tracking Status: None

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Request for Additional Information No. 2964 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 03.08.04 - Other Seismic Category I Structures
Application Section: 3.8.4, Appendix 3H

QUESTIONS for Structural Engineering Branch 2 (ESBWR/ABWR Projects) (SEB2)

03.08.04-***

3.8.4-1

ABWR Standard Plant Design Control Document Section 3H.2.4.3.1.4 and STP units 3 & 4 RCOLA Section 3H.2.4.3.1.4 state that shear wave velocity is one of the parameters used in computation of lateral soil pressures. However, Section 3H.2.6 of the application states that "Shear wave velocity is not used as an input in the calculation of lateral soil pressures. Therefore, change in shear wave velocity has no impact on calculation of lateral soil pressures." The staff requests the applicant to clarify this apparent inconsistency, and describe how lateral soil pressures were calculated for STP units 3 & 4, and how the calculated lateral pressures compare with those used in the ABWR Standard Plant design.

03.08.04-***

3.8.4-2

In FSAR Section 3.8.4, page 3.8-2, the applicant references the departure STD DEP T1 2.15-1 that reclassified the Radwaste Building Substructure from seismic category I to non-seismic, and removed all design information from FSAR Section 3.8.4 and Appendix 3H.3. While the staff agrees with the reclassification of the Radwaste Building Substructure as stated in the FSAR, the staff believes that the design information for this building still needs to be included in the FSAR in order for the staff to ensure that the design of the Radwaste Building Substructure has been performed in accordance with the guidance provided in RG 1.143 to meet the regulatory requirements contained in the General Design Criteria 2, and 60 of 10 CFR 50, Appendix A.

03.08.04-***

3.8.4-3

FSAR Section 3H.5.3 has removed the Seismic Category I Tunnels from the items to be included in the Structural Analysis Reports. The only departure referenced in Section 3H.5 (STD DEP T1 2.15-1) does not address this removal. Therefore, the applicant is requested to explain removal of Seismic Category I Tunnels from the Structural Analysis Reports, or identify in this Section where in the application this information may be found.

03.08.04-***

3.8.4-4

ABWR Standard Plant Design Control Document Section 3H.5.5 was titled “Structural Analysis Report For The Turbine Building,” and contained references to the Uniform Building Code (UBC) for design requirements. In FSAR Section 3H.5.5, the applicant changed the title to read “Structural Analysis Report For The Radwaste Building and The Turbine Building,” and did not identify any departure addressing the change. Further, the subsection refers to the UBC (changed to International Building Code (IBC) via STD DEP 1.8-1) for design requirements for both buildings. However, in the description of departure STD DEP T1 2.15-1 in Part 7 of the application, the applicant stated that “The detailed guidance for the design of the radwaste processing systems, structures, and components is provided in Regulatory Guide 1.143. This departure commits to follow the guidance of Regulatory Guide 1.143.” The staff requests the applicant to explain this apparent inconsistency.