

August 25, 2009

Mr. Scott Head, Manager  
Regulatory Affairs  
STP Nuclear Operating Company  
P. O. Box 289  
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 254 RELATED TO  
SRP SECTION 7.1 FOR THE SOUTH TEXAS PROJECT COMBINED LICENSE  
APPLICATION

Dear Mr. Head

By letter dated September 20, 2007, STP Nuclear Operating Company (STP) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 30 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

S. Head

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If you have any questions or comments concerning this matter, I can be reached at 301-415-4093 or by e-mail at [Adrian.Muniz@nrc.gov](mailto:Adrian.Muniz@nrc.gov) or you may contact George Wunder at 301-415-1494 or [George.Wunder@nrc.gov](mailto:George.Wunder@nrc.gov).

Sincerely,

**/RA/**

Adrian Muñiz, Project Manager  
ABWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-012  
52-013

eRAI Tracking No. 3393

Enclosure:  
Request for Additional Information

cc: William Mookhoek  
James Cook

S. Head

-2-

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cc: William Mookhoek  
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NAME	DTaneja	HLi	AMuñiz	SKirkwood	GWunder
DATE	7/27/09	7/28/09	8/25/09	8/18/09	8/19/09

**\*Approval captured electronically in the electronic RAI system.**

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**Request for Additional Information No. 3393 Revision 02**

**South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co**

**Docket No. 52-012 and 52-013**

**SRP Section: 07.01 - Instrumentation and Controls - Introduction**

**Application Section: Tier 2 Tables 1.9S-1 and 1.9S-1a**

QUESTIONS for Instrumentation, Controls and Electrical Engineering 2 (ESBWR/ABWR Projects)  
(ICE2)

**07.01-14**

In the STPNOC letter U7-C-STP-NRC-090009, dated February 9, 2009, the applicant provided the conformance to the Regulatory Guides (RG), Codes and Standards, that are applicable to I&C platform departures. Enclosure 2b of this letter contains proposed revisions to COLA Tier 2 Table 1.9S-1, "Site-Specific Conformance with Regulatory Guides," and a new Table 1.9S-1a, "IEEE Standards Applicable to the STP 3&4 Platforms," which document the RG, Codes, and Standards applicable to the departed I&C design. Footnotes 1 and 2 to these tables refer to the proposed technologies for Reactor Trip & Isolation System (RTIS), Neutron Monitoring System (NMS), and ESF Logic & Control System (ELCS), i.e., Toshiba FPGA platform and Westinghouse Common Q platform. These footnotes make a distinction in the Rev. levels of RG and IEEE Std. applicable to the RTIS/NMS and the ELCS. The reason for this distinction is the bases of prior NRC generic approval of the Westinghouse Common Q platform. Subsequently, in the STPNOC letter U7-C-STP-NRC-090076, dated July 22, 2009, the applicant stated that the design approval approach for STP 3 & 4 safety-related digital I&C systems no longer relies on the approval of the Westinghouse and Toshiba topical reports referred to in the footnotes, which are no longer relevant to the information in the tables, and therefore these two footnotes will not be incorporated into the COLA. However, the applicant did not change the RG and IEEE Std. revision numbers associated with these footnotes. Please note that all departures from the referenced certified design in the COLA are required to meet the current regulations. Since the NRC approval of the ELCS design no longer relies on the pre-approved Westinghouse Common Q platform, the ELCS design should also conform to the current regulation and associated IEEE Std. and Regulatory Guides (similar to the RTIS and NMS design). Update FSAR Tables 1.9S-1, 1.9S-1a, and related sections of the COL application addressing the ELCS design compliance to the current regulations.