

April 14, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 06 RELATED TO  
THE SRP SECTION 10.03 FOR THE SOUTH TEXAS COMBINED LICENSE  
APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) 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 45 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.

Mr. Gregory Gibson

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If you have any questions or comments concerning this matter, I can be reached at 301-415-1494 or by e-mail at [george.wunder@nrc.gov](mailto:george.wunder@nrc.gov).

Sincerely,

**/RA/**

George F. Wunder, Senior Project Manager  
ESBWR/ABWR Projects Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-012  
52-013

eRAI Tracking No. 111

Enclosure:  
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

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Enclosure:  
Request for Additional Information

cc: William Mookhoek

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**NRO-002**

OFFICE	SBPB/TR	SBPB/BC	OGC	NGE1/L-PM
NAME	DReddy*	JSegala*	MSmith*	GWunder*
DATE	04/03/08	04/04/08	04/11/08	04/14/08

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

**OFFICIAL RECORD COPY**

Request for Additional Information  
South Texas Project Units 3 and 4  
STP Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 10.03 - Main Steam Supply System  
Application Section: 10.3

QUESTION

10.03-1

SRP Section 10.3: Main Steam System Section 10.3.7.1, "Procedures to Avoid Steam Hammer and Discharge Loads," of the ABWR DCD (design Certification Document) states that the COL applicant will provide operating and maintenance procedures that include adequate precautions to avoid steam hammer and discharge loads. Also, Section 10.3.3, "Evaluation," of the DCD describes that all components and piping for the main steam supply system (MSSS) are designed in accordance with the codes and standards listed in Section 3.2 of the DCD to insure that the MSSS accommodates operational stresses resulting from static and dynamic loads, including steam hammer and normal and abnormal environmental conditions. Additionally, SRP Section 10.3, Item I.5, "COL Action Items and Certification Requirements and Restriction," describes that for a COL application referencing a DC, a COL applicant must address COL action items included in the referenced DC. Further, Item 2 of "SRP Acceptance Criteria" (SRP Section 10.3, Item II), describes that the system (MSSS) should adequately consider water (steam) hammer and relief valve discharge loads to assure that system safety functions can be performed and should assure that operating and maintenance procedures include adequate precautions to prevent water (steam) hammer and relief valve discharge loads. However, the site specific supplement provided in the COL application (i.e., FSAR Section 10.3.7.1) does not provide these procedures for NRC staff's review, as stated in this COL license information item. In order to ensure the adequacy of the MSSS and its compliance with the criteria in the SRP and the DCD, please provide these procedures for staff's review and evaluation. Also, explain the elements of these procedures and how they comply with the SRP criteria and the codes and standards identified in Section 3.2 of the DCD.