

May 12, 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. 42 RELATED TO  
THE SRP SECTION 02.04.01 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, you may contact me at 301-415-1146 or [Raj.Anand@nrc.gov](mailto:Raj.Anand@nrc.gov), or you may contact George Wunder at 301-415-1494 or [George.Wunder@nrc.gov](mailto:George.Wunder@nrc.gov).

Sincerely,

**/RA/**

Raj Anand, 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. 241

Enclosure:  
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

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Sincerely,

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Raj Anand, Project Manager  
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Enclosure:  
Request for Additional Information

cc: William Mookhoek

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NRO-002

OFFICE	SBPB/TR	SBPB/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	HAhn*	MThaggard*	RAnand*	JBiggins*	GWunder*
DATE	5/06/08	5/08/08	5/08/08	5/09/08	5/12/08

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

**OFFICIAL RECORD COPY**

Request for Additional Information  
South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co.  
Docket No. 52-012 and 52-013  
SRP Section: 02.04.01 - Hydrologic Description  
Application Section: 02.04S.1 - Hydrologic Description

QUESTIONS

02.04.01-1

(a) Provide a geographical information system (GIS) coverage for existing topography data obtained from aerial survey that was used to create FSAR Figure 2.4S.1-3. (b) Provide a GIS coverage for the layout of major structures of all four STP units.

02.04.01-2

Summarize in Section 2.4S.1 of the FSAR: (a) plant water demands in accordance with SRP 2.4.1 and (b) the geo-referencing datum used throughout Section 2.4S.