

January 15, 2010

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 312 RELATED TO  
SRP SECTION 1.02 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

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-3104 or by e-mail at [Michael.Eudy@nrc.gov](mailto:Michael.Eudy@nrc.gov) or you may contact George Wunder at 301-415-1494 or by e-mail at [George.Wunder@nrc.gov](mailto:George.Wunder@nrc.gov).

Sincerely,

**/RA/**

Michael Eudy, Project Manager  
ABWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-012  
52-013

eRAI Tracking Nos. 4282  
Enclosure:  
Request for Additional Information

cc: William Mookhoek  
Richard Scheide

S. Head

-2-

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Michael Eudy, Project Manager  
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Office of New Reactors

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Enclosure:  
Request for Additional Information

cc: William Mookhoek  
Richard Shedie

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| OFFICE | NGE2/PM | NGE2/L-PM |
| NAME   | MEudy   | GWunder   |
| DATE   | 1/15/10 | 1/14/10   |

**\*Approval captured electronically in the electronic RAI system.  
OFFICIAL RECORD COPY**

**Request for Additional Information No. 4282 Revision 3**

**South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 01 - Introduction and Interfaces  
Application Section: 1.2**

QUESTIONS for ESBWR/ABWR Projects 2 (NGE2)

**01-17**

The staff has noted the following discrepancies in section 1.2 of the applicant's FSAR:

- Section 1.2.2.2.3.1 of the FSAR is identified as having changes to the equivalent ABWR DCD section due to the impacts of STD DEP T1 2.3-1. However, the staff notes that ABWR DCD section 1.2.2.2.3.1 does not exist. The staff requests for the applicant to resolve this discrepancy and provide a revised FSAR section accordingly.
- Sections 1.2.2.5.4 and 1.2.2.5.5 of the FSAR are identified as having changes to their equivalent ABWR DCD section due to the impacts of STD DEP T1 2.4-3. However, the staff notes that ABWR DCD section 1.2.2.5.5 does not exist. It is unclear what the impact that this departure has on these sections. In addition, FSAR section 1.2.2.5.4 and 1.2.2.5.5 have the same title, "Reactor Core Isolation Cooling System" and FSAR section 1.2.2.5.5 does not have any description or wording provided. The staff requests for the applicant to resolve these discrepancies and provide a revised FSAR section accordingly.

Enclosure