July 30, 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. 173 RELATED TO SRP SECTION 05.02.03 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.

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Tekia V. Govan, Project Manager
ABWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 2676

Enclosure:
Request for Additional Information

cc:
Mr. William Mookhoek
Mr. Richard Bense

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

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Request for Additional Information

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Mr. Richard Bense

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OFFICE	CIB2/TR	CIB2/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	RDavis	NRay	TGovan	SBrock	GWunder
DATE	06/09/2009	06/16/2009	06/17/2009	07/20/2009	07/28/2009

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

OFFICIAL RECORD COPY

Request for Additional Information No. 2676 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 05.02.03 - Reactor Coolant Pressure Boundary Materials
Application Section: 5.2

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects) (CIB2)

05.02.03-1

The applicant has made several modifications to ABWR DCD Table 5.2-4. COL FSAR Section 5.2 indicates that the modifications to Table 5.2-4 that impact COL FSAR Section 5.2 are part of STD DEP 4.5-1. STP COLA, Part 07 "Departure Report", Section 3.0, provides a description of STD DEP 4.5-1. The applicant's description of the departure indicates that it applies to the control rod drive mechanisms in Section 4.5.1 and reactor internals in Section 4.5.2. The applicant also indicates the use of Code Case N-580-2, which is applied to the reactor pressure vessel (RPV) and reactor internals. In order for the staff to continue its review of modifications made to Table 5.2-4, the staff requests that the applicant address the following and modify the departure report accordingly.

1. The applicant made several modifications to Table 5.2-4 to correct inconsistencies related to product form, material type, etc. but the staff is unable to locate a brief description of these changes and a summary of the evaluation of each as required by 10 CFR 52, Appendix A, Section X.B.1.

2. The applicant modified the material used for main steam contour nozzles from carbon steel to low alloy steel but the staff is unable to locate a brief description of these changes and a summary of the evaluation of each as required by 10 CFR 52, Appendix A, Section X.B.1.

3. The applicant has added stainless steel to the materials that may be used for RPV drain nozzles but the staff is unable to locate a brief description of these changes and a summary of the evaluation of each as required by 10 CFR 52, Appendix A, Section X.B.1.

4. In addition to the above, the staff requests that the applicant perform a complete review of all modifications made to Table 5.2-4 and ensure that all modifications are addressed in the departure report.