

June 17, 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. 125 RELATED TO
SRP SECTION 8.4 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 or you may contact George Wunder at 301-415-1494 or 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. 2491

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Bense

S. Head

-2-

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NAME	BBhatia	RJenkins	AMuñiz	SKirkwood	GWunder
DATE	3/31/09	4/3/09	6/17/09	4/24/09	5/12/09

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

OFFICIAL RECORD COPY

Request for Additional Information No. 2491 Revision 02

**South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 08.04 - Station Blackout
Application Section: SRP 8.4**

QUESTIONS for Electrical Engineering Branch (EEB)

08.04-1

10CFR 50.63 states that no coping analysis is required if AAC (Alternate AC) source is demonstrated to be available within 10 minutes of the onset of a station blackout (SBO). Discuss the following:

1. Discuss the time required to identify the existence of an SBO (when the SBO clock starts?)
2. How long it will take to energize all required loads?
3. How long it will take to energize the emergency bus when the AAC source is connected to a non-safety bus?

08.04-2

In subsection 9.5.13.20 of the FSAR, the applicant identified the operating procedures to address a station blackout event (SBO). According to NUMARC 87-00, endorsed by Regulatory Guide 1.155 and referenced by SRP 8.4, the SBO response procedures include (1) Station Blackout Response Guidelines, (2) AC Power Restoration, and (3) Severe Weather Guidelines. Confirm that the operating procedures will address these three topics. Additionally, confirm that training will be provided to the plant personnel on these procedures that will be developed to address the station blackout event.

Enclosure