

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. 35 RELATED TO
THE SRP SECTION 02.04.06 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

-2-

If you have any questions or comments concerning this matter, you may contact me at 301-415-1146 or Raj.Anand@nrc.gov, or you may contact George Wunder at 301-415-1494 or George.Anand@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: 247

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

-2-

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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 Nos. 52-012 and 52-013

SRP Section: 02.04.06 - Probable Maximum Tsunami Flooding
Application Section: 02.04S.6 - Probable Maximum Tsunami Flooding

QUESTIONS

02.04.06-1

Section C.I.2.4.6.1 of Regulatory Guide 1.206 (RG) provides specific guidance with respect to the establishment of the probable maximum tsunami (PMT). This includes how the orientation of the site relative to the generating mechanism, shape of the coastline, offshore land areas, hydrography, and stability of the coastal area (prone to sliding) were considered in the analysis. Provide an assessment (e.g., tsunami modeling analysis) of the East Breaks landslide to clarify whether the 7.6 m offshore wave height indicated by Trabant et. al. (2001) can be discounted. In addition, provide an assessment of other regions in the Gulf of Mexico prone to landslides. To independently validate whether no tsunami hazard exists for the proposed site, provide geologic methods and tsunami identification criteria used to justify the determination that no tsunami deposit was found at the site. Provide excavation photos from Units 1 and 2. Indicate if there are geologically conducive locations for the deposition and preservation of tsunami deposits at the STP site or nearby regions.

02.04.06-2

Section C.I.2.4.6.3 of RG 1.206 provides specific guidance with respect to the source characteristics needed to determine the PMT. These characteristics include detailed geo-seismic descriptions of the controlling local and distant tsunami generators, including location, source dimensions, fault orientation, and maximum displacement. Provide these characteristics for seismogenic tsunamis originating in the Caribbean and Gulf of Mexico as used in the analysis. Also provide the location, source volume and dimensions, and maximum displacement information for landslides in the Gulf of Mexico used in the analysis.

02.04.06-3

Section C.I.2.4.6.4 of RG 1.206 provides specific guidance with respect to tsunami analysis. This includes providing a complete description of the analysis procedure used to calculate tsunami wave height and period at the site. Provide available high-resolution processed radar data at and near the site as well as the source for the bathymetric dataset used for tsunami analysis.