

April 23, 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. 21 RELATED TO
THE SRP SECTION 02.01.03 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, or you may contact George Wunder at 301-415-1494 or 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: 160

Enclosure:
Request for Additional Information

cc: William Mookhoek

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 rka@nrc.gov, or you may contact George Wunder at 301-415-1494 or gfw@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 160

Enclosure:
Request for Additional Information

cc: William Mookhoek

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NRO-002

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NAME	STammara*	CCox*	RAnand*	SBrock*	GWunder*
DATE	4/11/08	4/21/08	4/21/08	4/21/08	4/23/08

*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: 02.01.03 - Population Distribution
Application Section: 2.1S.3

QUESTIONS

02.01.03-1

Section 2.1S.3.1 of the FSAR states that an exponential growth rate for each county was calculated based on the state population projections from 2000-2040 (Reference 2.1S-16). Please provide the calculated growth rate for each of the nine counties (Brazoria, Calhoun, Colorado, Fort Bend, Jackson, Lavaca, Matagorda, Victoria, Wharton) that comprise within the 50 miles of the STP site. Is this growth rate used for future 10-year incremental projections from the year 2000 (2010 through 2080) on a linear or exponential basis from year 2000?

02.01.03-2

The NRC siting criteria at 20 miles is 500/sq. mile. The cumulative density should be a factor of the area (sq/mi) of the circle out to 20 miles times the 500 persons/sq mi - that value is about 630,000 (628,000) and not less than 600,000 as displayed in Figure 2.1S-27. Please verify your calculation for the cumulative population for the NRC siting criteria at 20 miles.