



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

January 11, 2011  
U7-C-STP-NRC-110005

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852-2738

South Texas Project  
Units 3 and 4  
Docket Nos. 52-012 and 52-013  
Supplemental Response to Request for Additional Information

- References:
1. Letter, Scott Head to Document Control Desk, "Responses to Requests for Additional Information" for the South Texas Combined License Application dated September 21, 2009, U7-C-STP-NRC-090146 (ML092710096).
  2. Letter, Scott Head to Document Control Desk, "Supplemental Response to Request for Additional Information," U7-C-STP-NRC-090206 dated November 30, 2009 (ML093360350).
  3. Letter, Scott Head to Document Control Desk, "Supplemental Response to Request for Additional Information," U7-C-STP-NRC-100010 dated January 11, 2010 (ML100140408)
  4. Letter, Scott Head to Document Control Desk, "Supplemental Response to Request for Additional Information," U7-C-STP-NRC-100031 dated February 10, 2010 (ML100560122)
  5. Letter, Scott Head to Document Control Desk, "Response to Request for Additional Information," U7-C-STP-NRC-100255 dated December 15, 2010 (ML103540324)

Attached is supplement 4 to the STP Nuclear Operating Company response to request for additional information (RAI) 02.04.12-33. The original response to this RAI and the previous supplements were submitted in References 1 through 4. Also attached is the updated STP 3 & 4 groundwater model, "Groundwater Model Development and Analysis for STP Units 3 & 4," Bechtel Power Corporation, Revision 2, January 2011.

Enclosed are six digital versatile disks (DVDs). One of these DVDs contains the input/output files for the computer models used to develop the attached January 2011 reversion of the

1091  
NRO  
STI 32806380

“Groundwater Model Development and Analysis for STP Units 3 & 4.” The other five DVDs contain the input/output files used to support the groundwater model sensitivity analyses described in the responses to RAI 02.04.12-46, Supplement 1, RAI 02.04.12-48, Supplement 1, and RAI 02.04.12-50, Supplement 1, which were submitted in Reference 5.

Attachment 1 provides the response to the RAI question listed below.

02.04.12-33, Supplement 4

Attachment 2 provides the “Groundwater Model Development and Analysis for STP Units 3 & 4,” Bechtel Power Corporation, Revision 2, January 2011.

Enclosures 1 through 6 are DVDs that contain the computer input/output files for computer codes for various models and calculation packages that support the responses to various RAIs as discussed above. These model input/output files were requested by the NRC Staff. The NRC Staff requested that the files be submitted in the native formats required by the software utilized to support development of the STP 3 & 4 COLA. As a result, the files on the enclosed DVDs are unable to comply with the requirements for electronic submission in NRC Guidance Document, “Guidance for Electronic Submissions to the NRC,” dated November 20, 2007.

When a change to the COLA is required, it will be incorporated into the next routine revision of the COLA following NRC acceptance of the RAI response.

There are no commitments in this letter.

If you have any questions, please contact me at (361) 972-7136, or Bill Mookhoek at (361) 972-7274.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 1/11/11



Scott Head  
Manager, Regulatory Affairs  
South Texas Project Units 3 & 4

rhb

- Attachments:
1. RAI 02.04.12-33, Supplement 4
  2. Groundwater Model Development and Analysis for STP Units 3 & 4, Bechtel Power Corporation, Revision 2, January 2011.

- Enclosures:
1. DVD: STPNOC Letter U7-C-STP-NRC-110005  
RAI 02.04.12-33, Supplement 4,  
Visual MODFLOW – Input/Output Files:  
Run 301 Base Model; Run 301 10 Layer Base Model; and,  
Run 301 Post Construction Model.  
(Disk 1 of 1)
  2. DVD: STPNOC Letter U7-C-STP-NRC-110005  
RAI 02.04.12-33, Supplement 4,  
Visual MODFLOW – Input/Output Files for Sensitivity Analyses:  
RAI 02.04.12-46, Supplement 1,  
RAI 02.04.12-48, Supplement 1, and  
RAI 02.04.12-50, Supplement 1.  
(Disk 1 of 5)
  3. DVD: STPNOC Letter U7-C-STP-NRC-110005  
Visual MODFLOW – Input/Output Files for Sensitivity Analyses  
(Disk 2 of 5)
  4. DVD: STPNOC Letter U7-C-STP-NRC-110005  
Visual MODFLOW – Input/Output Files for Sensitivity Analyses  
(Disk 3 of 5)
  5. DVD: STPNOC Letter U7-C-STP-NRC-110005  
Visual MODFLOW – Input/Output Files for Sensitivity Analyses  
(Disk 4 of 5)
  6. DVD: STPNOC Letter U7-C-STP-NRC-110005  
Visual MODFLOW – Input/Output Files for Sensitivity Analyses  
(Disk 5 of 5)

cc: w/o attachments and enclosure except\*  
(paper copy)

Director, Office of New Reactors  
U. S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852-2738

Regional Administrator, Region IV  
U. S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011-8064

Kathy C. Perkins, RN, MBA  
Assistant Commissioner  
Division for Regulatory Services  
Texas Department of State Health Services  
P. O. Box 149347  
Austin, Texas 78714-9347

Alice Hamilton Rogers, P.E.  
Inspection Unit Manager  
Texas Department of State Health Services  
P. O. Box 149347  
Austin, Texas 78714-9347

\*Steven P. Frantz, Esquire  
A. H. Gutterman, Esquire  
Morgan, Lewis & Bockius LLP  
1111 Pennsylvania Ave. NW  
Washington D.C. 20004

\*Tekia Govan  
Two White Flint North  
11545 Rockville Pike  
Rockville, MD 20852

(electronic copy)

\*George F. Wunder  
\*Tekia Govan  
Loren R. Plisco  
U. S. Nuclear Regulatory Commission

Steve Winn  
Joseph Kiwak  
Eli Smith  
Nuclear Innovation North America

Peter G. Nemeth  
Crain, Caton & James, P.C.

Richard Peña  
Kevin Pollo  
L. D. Blaylock  
CPS Energy