



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

October 7, 2009
U7-C-STP-NRC-090171

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
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South Texas Project
Units 3 and 4
Docket Nos. 52-012 and 52-013
Response to Request for Additional Information

Attached is the response to the NRC staff question included in Request for Additional Information (RAI) letter number 201 related to Combined License Application (COLA) Part 5 Emergency Plan, Section G.3 "Technical Support Center," and Part 2 Tier 2 Section 13.3 "Emergency Planning." The attachment provides the initial response to RAI question 13.03-73 and a schedule to supplement the response.

No changes to the COLA are required as a result of this response.

There are no commitments in this letter.

For questions or comments regarding this response, 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 10/7/09

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

ccc

Attachment: Question 13.03-73

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NR0

cc: w/o attachment except*
(paper copy)

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RAI 13.03-73**QUESTION:**

Subject: Emergency facilities and equipment

Basis: 10 CFR 50, Appendix E.IV.E.8; 10 CFR 50, 10 CFR 50.47(b)(8); Evaluation Criterion H.1; Supplement 1 to NUREG-0737

SRP ACCEPTANCE CRITERIA: Requirements A and B; Acceptance Criteria 1 and 2

Section G.3, "Technical Support Center," of the STP 3 & 4 Emergency Plan states:

"Each Technical support Center is provided sufficient radiological protection and monitoring equipment to assure that radiation exposure to any person working in the activated Technical support Center will not exceed five (5) rem TEDE or twenty-five (25) rem thyroid CDE during the duration of a declared accident."

In accordance with Acceptance Criterion 3, "Technical Support Center Radiological Habitability," in SRP Section 15.0.3, "Design Basis Accident Radiological Consequence Analyses for Advanced Water Reactors," the staff reviews whether the total calculated radiological consequences in the TSC for the postulated fission product releases fall within the exposure acceptance criteria specified in GDC 19 of 5 rem TEDE (0.05 Sv) for the duration of the design basis accidents (DBAs). Provide the radiological consequence analyses that were performed for the South Texas Project TSCs for units 3 and 4 for the postulated DBAs. The DBAs are listed and evaluated in Chapter 15 of the certified ABWR DCD. The radiological analyses should include, but are not limited to, the following parameters:

1. TSC ventilation air inlet and recirculation flow rates
2. HEPA filter and charcoal adsorber fission product removal efficiencies
3. TSC unfiltered air in-leakage rate
4. Atmospheric dispersion factors (χ/Q values) at TSC air intake
5. TSC occupancy factors
6. TSC free air volume
7. Occupant breathing rate
8. Description of the ventilation design

RESPONSE:

The radiological consequence analyses includes parameters associated with the design of the ventilation system for the TSC, as stated in the question. Some input parameters may be available before the final design is complete; however, several of the parameters associated with the Service Building HVAC System, which serves the TSC, are dependent on the detailed design for the TSC and the Service Building HVAC System. This design is in progress and scheduled to be completed by the First Quarter of 2010.

After these input parameters are available, the radiological consequence analyses for the postulated DBAs for the TSCs for STP Units 3 & 4 will be completed, and the results will be provided in a supplement to this response by May 31, 2010.

No changes to the COLA are required as a result of this response.

Schedule for Supplemental Response to RAI 13.03-73

Description	Reason	Due Date
Provide the results of the radiological consequence analyses for the postulated DBAs for the TSCs for STP Units 3 & 4.	Input parameters require portions of the detailed design for the TSC and Service Building HVAC System to be completed prior to the analyses.	May 31, 2010