PMSTPCOL PEmails

From: Tekia Govan
Sent: Thursday, March 05, 2009 11:16 AM
To: 'Head, Scott'
Cc: 'Tomkins, James'; STPCOL
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER No. 81 and 82 RELATED TO SRP SECTION 5.3
Attachments: ML090630285.pdf; ML090630458.pdf

Attached you will find the publically available ADAMS files which contains the "REQUEST FOR ADDITIONAL INFORMATION LETTER No. 81 and 82 RELATED TO SRP SECTION 5.3 FOR THE SOUTH TEXAS PROJECT COMBINED LICENSE APPLICATION ." This email is being sent to satisfy the delivery date noted on the letter, however a copy of this document has been sent to you via postal mail.

If you have any questions or concerns, please do not hesitate to contact me.

Tekia V. Govan, Project Manager
U.S. Nuclear Regulatory Commission
Office of New Reactors
MS T-7-F29
Washington DC 20555-0001
301-415-6197
Tekia.Govan@nrc.gov

Hearing Identifier: SouthTexas34Public_EX
Email Number: 934

Mail Envelope Properties (83F82891AF9D774FBBB39974B6CB134F7EC254D987)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER No. 81 and 82 RELATED TO SRP SECTION 5.3
Sent Date: 3/5/2009 11:15:44 AM
Received Date: 3/5/2009 11:15:45 AM
From: Tekia Govan

Created By: Tekia.Govan@nrc.gov

Recipients:
"'Tomkins, James'" <jetomkins@STPEGS.COM>
Tracking Status: None
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"'Head, Scott'" <smhead@STPEGS.COM>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	689	3/5/2009 11:15:45 AM
ML090630285.pdf	83573	
ML090630458.pdf	98803	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

March 4, 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. 81 RELATED TO SRP SECTION 05.03.02 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.

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Tekia V. Govan, Project Manager
ABWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 2038

Enclosure:
Request for Additional Information

cc:
Mr. William Mookhoek
Mr. Richard Bense

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,
/RA/
Tekia V. Govan, Project Manager
ABWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 2038

Enclosure:
Request for Additional Information

cc:
William Mookhoek
Richard Bense

Distribution:
PUBLIC
NGE 1/2 R/F
GWunder, NRO
BAbeywickrama, NRO
SDowney,NRO
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RidsNroDnrlNge2

ADAMS Accession No.: ML090630285 NRO-002

OFFICE	CIB2/TR	CIB2/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	SDowney	NRay	TGovan	SBrock	GWunder
DATE	01/27/2009	02/06/2009	03/04/2009	02/13/2009	02/13/2009

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

OFFICIAL RECORD COPY

Request for Additional Information No. **2038** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket Nos. 52-012 and 52-013
SRP Section: 05.03.02 - Pressure-Temperature Limits, Upper-Shelf Energy, and Pressurized Thermal Shock
Application Section: 05.03.02 and 05.03.04

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects) (CIB2)

05.03.02-1

ABWR DCD, Revision 0, Section 5.3.4.3 states that the COL applicant will submit plant-specific calculations of RT_{NDT}, stress intensity factors, and pressure-temperature (P-T) curves similar to those in Regulatory Guide 1.99 and SRP Section 5.3.2. In response to COL License Information Item, South Texas Project Units 3 & 4 COL FSAR Section 5.3.4.3 states that plant-specific calculations of RT_{NDT}, stress intensity factors, and P-T curves similar to those in Regulatory Guide 1.99 and SRP Section 5.3.2 will be provided in an amendment to the FSAR in accordance with 10 CFR 50.71(e) prior to receipt of fuel on site. The data will be based on test results from the actual materials used in the RPV.

The P-T limits or the pressure temperature limits report (PTLR) for South Texas Project Units 3 & 4 must be provided to the NRC for review and approval prior to the issuance of a COL license. Please provide all documentation (methodologies, calculations, reports, etc.) used in developing the P-T limits or PTLR to the NRC for review and approval.

Enclosure

March 4, 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. 82 RELATED TO SRP SECTION 05.03.01 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.

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Tekia V. Govan, Project Manager
ABWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 2135, 2136 and 2137

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Bense

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Tekia V. Govan, Project Manager
ABWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 2135, 2136 and 2137

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Bense

Distribution:
PUBLIC
NGE 1/2 R/F
GWunder, NRO
BAbeywickrama, NRO
SDowney,NRO
NRay, NRO
SBrock, OGC
RidsNroDeCib2
RidsNroDnrlNge2

ADAMS Accession No. ML090630458 NRO-002

OFFICE	CIB2/TR	CIB2/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	SDowney	NRay	TGovan	SBrock	GWunder
DATE	02/06/2009	02/06/2009	03/04/2009	02/13/2009	02/13/2009

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

OFFICIAL RECORD COPY

Request for Additional Information No. **2135** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket Nos. 52-012 and 52-013
SRP Section: 05.03.01 - Reactor Vessel Materials
Application Section: 05.03.01

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects) (CIB2)

05.03.01-3

Table 13.4S-1 proposes that the reactor vessel material surveillance program (RVSP) be implemented at initial criticality. However, in order to verify that the requirements of the RVSP have been met and are in accordance with Appendix H of 10 CFR Part 50, the program must be implemented prior to fuel load by a license condition. Please revise the FSAR accordingly.

Enclosure

Request for Additional Information No. **2136** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket Nos. 52-012 and 52-013
SRP Section: 05.03.01 - Reactor Vessel Materials
Application Section: 05.03.01

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects) (CIB2)

05.03.01-1

FSAR Section 5.3.4.1 states that fracture toughness data based on the limiting reactor vessel actual materials will be provided in an amendment to the FSAR in accordance with 10 CFR 50.71 (e) prior to receipt of fuels on site. The as-procured reactor vessel material properties will be available to the COL holder after the acceptance of the reactor vessel. In order to provide sufficient time for NRC review of the fracture toughness data, the staff requests that a more specific and timely milestone for submitting the fracture toughness data to the NRC be established. Accordingly, the staff proposes a Commitment be added to address the COL information item in Section 5.3.4.1 to state that, within a reasonable period of time following acceptance of the reactor vessel, the COL holder submit to the NRC staff the fracture toughness data, for example, one year after the acceptance of the reactor vessel.

Request for Additional Information No. **2137** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket Nos. 52-012 and 52-013
SRP Section: 05.03.01 - Reactor Vessel Materials
Application Section: 05.03.01

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects) (CIB2)

05.03.01-2

The purpose of the reactor vessel surveillance capsule program (RVSP), as described in ASTM E 185, is to monitor radiation effects on RV materials under operating conditions. Section C.III.1, Chapter 5, C.I.5.3.1.6 of Regulatory Guide (RG) 1.206 states, "because the material surveillance program is an operational program, as discussed in SECY-05-0197, the applicant must describe the program and its implementation in sufficient scope and level of detail for the staff to make a reasonable assurance finding on its acceptability." ABWR DCD Section 5.3.1.6 "Material Surveillance" provides general information about the RVSP. In addition, FSAR Section 5.3.4.2, which provides site-specific information, does not describe the program in enough detail to make a finding on its acceptability. To enable the staff to complete its review of the adequacy of the RVSP, please provide amplifying information as follows:

a. Provide the detailed locations of the capsules in the core beltline region and their associated lead factors.
b. Describe in detail the process for preparing the capsule specimens (i.e., how ASTM E 185 be implemented).
c. Specify the number and type of specimens in each capsule.

COL FSAR Section 5.3.4.2 states that the materials and surveillance capsule program for STP 3 & 4 are in accordance with "STP 3 & 4 Reactor Pressure Vessel Surveillance Program", Toshiba Corporation, July 2008 (RS-5126528, Rev. 1). Please provide this document for NRC review and approval.