PMSTPCOL PEmails

From: Govan, Tekia
Sent: Wednesday, September 16, 2009 11:33 AM
To: 'rhscheide@stpegs.com'
Cc: STPCOL
Subject: DRAFT RAI
Attachments: RAI 3744.doc

Dick,

Please review the attached RAI. If you feel we need a conference call to clarify the requested information, please contact me within 5 business days. If a conference call is not needed (please send an email) I will continue the formal process of issuing the RAI to STPNOC.

This RAI relates to section 5.3 and is a product of the Phase 2 review.

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Office of New Reactors
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Subject: DRAFT RAI
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From: Govan, Tekia

Created By: Tekia.Govan@nrc.gov

Recipients:
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"'rhscheide@stpegs.com'" <rhscheide@stpegs.com>
Tracking Status: None

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Options
Priority: Standard
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Request for Additional Information No. 3744 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 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

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

05.03.02-***

The STP 3 & 4 Pressure and Temperature Limits Report (PTLR) is in accordance with Structural Integrity Associates Report No. SIR-05-044-A, Revision 0, which states that if finite element analysis is utilized to develop P-T limits for any RPV region, then additional information shall be provided in the PTLR. PTLR Section 5.0 states that the stress distributions used to develop the P-T limits are based on the stress analysis data calculated by finite element model analysis. However, the applicant has not provided the information described in SIR-05-044-A. Therefore, the staff requests the following information:

a) Identify the computer code(s) that were used in the finite element stress analysis

b) For any computer codes used, describe how the code(s) were verified or benchmarked.

c) Identify the assumptions of the finite element analysis. Necessary inputs to the analysis include any or all of the following:

- A description of plant operating conditions used
- Description of heat transfer coefficients used and the methodology used to calculate them
- A description of the model developed, including materials, material properties, finite element mesh pattern, and geometry

05.03.02-***

To address PTLR Criterion 2(GL 96-03), describe how the surveillance capsule specimen examinations shall be used to update the PTLR curves.

05.03.02-***

To address PTLR Criterion 4(GL 96-03), clearly identify both the limiting adjusted reference temperature (ART) values and limiting materials at the 1/4T location (t= vessel beltline thickness) used in the development of the P-T limits.