

PMSTPCOL PEmails

From: Tai, Tom
Sent: Wednesday, March 31, 2010 8:33 AM
To: Price, John E
Cc: STPCOL; Chappell, Coley; Mookhoek, William
Subject: STP - RAI 4555 for Ch 3.9.3
Attachments: RAI 4555 03.09.03-xx.doc

John,

Attached for your information is a draft of RAI 4555 issued under Chapter 3.9.3. It is related to the suction strainer RAI in Ch 6.2.2. We issued RAI 06.02.02-23 and STP responded on January 13, 2010 (Letter U7-C-STP-NRC-100007).

Please let me know if you have any question on RAI 4555. I plan to issue to STP formally next Monday (4/5/10).

Regards

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Recipients:

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Request for Additional Information No. 4555 Revision 3

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 03.09.03 - ASME Code Class 1, 2, and 3 Components
Application Section: Section 3.9.3

QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

03.09.03-***

This is the supplemental RAI of RAI 06.02.02-23.

In response to RAI 06.02.02-23, a letter ([ML100141735](#)) dated January 13, 2010, the applicant stated that the STP 3 & 4 suction strainer hydrodynamic loads as well as loads due to debris accumulation were still being developed as part of the plant detailed design, and as such the analysis for the strainers had not yet been completed. In order to provide reasonable assurance that the STP 3 & 4 suction strainers can be designed to withstand these loads, the applicant referred to an analysis for these loads for the CCI cassette-type strainer (which will be used on STP 3 & 4) for a Japanese Reference ABWR.

The staff reviewed the stress reports and other supporting documents associated with HPCF and RHR strainer and found that the documents incompletely addressed the RAI 06.02.02-23. Therefore, the staff cannot make the safety determination of the strainer design. The staff requests that the applicant provide the following information:

- 1) Design and service level A-D loads and load combinations, including seismic with hydrodynamic of sloshing effect.
- 2) The principal construction code of the strainer design.
- 3) The pressure load on the strainer from sparger discharge and the basis for using this pressure load.
- 4) The classification of the strainer and its supports.