

PMSTPCOL PEmails

From: Tai, Tom
Sent: Monday, May 02, 2011 8:06 AM
To: 'Price, John E'
Cc: STPCOL
Subject: STP - Comments on Non-Dryer WCAP
Attachments: List of Question of ST-3 non-dryer stress report.doc

John,

Attached for your information are comments on the non-dryer report (WCAP 17371 Rev 0). Please share with the cognizant engineers such that we can discuss on May 5.

Regards

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Hearing Identifier: SouthTexas34Public_EX
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From: Tai, Tom

Created By: Tom.Tai@nrc.gov

Recipients:
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
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List of Question of ST-3 non-dryer stress report.doc	29690	

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List of Questions of STP-3 Non-Dryer Components - Stress Report
(WCAP-17371-P February 2011, Revision 0)

1. Sec. 2.1 stated that the transient conditions will be analyzed in a subsequent set of calculation.

Transient conditions are already covered in Table 5.1.1-1 and -2. Please clarify/revise this statement.

2. Please describe “hot spot method at mesh refinement” in the RIP guide rail stress evaluation.

3. The maximum stress of shroud head is at shroud head ring. Please describe the shroud head ring and its location.

4. The stress ratio of the shroud head bolts is 0.999 (practically equal to 1).
A. How confidence this number not exceed 1?

B. Please provide more detail of the location of max. stress (referring to Fig. 4.2.6-1) and the basis and reference of applying a factor of 4 on the bolts. Is max stress at outer pipe of inner rod?

C. The bolt has the highest stress of the non-dryer components. Is the bolt included in the measurement program? If not, please provide explanation.

D. There are other stresses in normal operation conditions (e.g., thermal stress, dead weight), they may be significant. Please assess impact of these stresses on design adequacy of the **shroud head bolts**.

5. Table 7.2.2-1 and -2 has identical caption.

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The following item has conveyed to STP in last conference call and waiting for their response.

In RAI 45, the applicant stated the forcing function of CRGT/CRDH is updated by bounding the uncertainty bands, and the stress analysis is updated. As a result, all the new calculated stresses “are” higher than those of the previous analysis.

However, the previous max. stress is 8.05 ksi (7B11-D001-3809-08 Rev 0) and the updated max. stress is 7.72 ksi (WCAP-17371-P February 2011, Revision 0) Please clarify the contradiction..