

PMSTPCOL PEmails

From: Tai, Tom
Sent: Monday, December 02, 2013 11:48 AM
To: 'Scheide, Richard' (rhscheide@STPEGS.COM)
Cc: STPCOL
Subject: RAI 01.05-5 Follow-up Discussion

Dick,

Please let me know if you can have your staff to discuss the following:

After reviewing the "Response of RAI Question 01.05-5, May 2, 2013", (NINA Report), there are three questions related to HVAC issues:

1. RCIC Pump Room

RCIC system is required during phase 1, e.g., within 36 hours of the SBO's onset. Per NINA REPORT p.21, RCIC Pump Room has a design bases operating temperature (150.8F) and a high temperature coping strategy for extended operation.

Per FSAR 5.4.6.1(5), "The RCIC system is designed to perform its vessel water inventory control function without AC power for at least 2 hours. Supporting systems as DC power and the RCIC water supply are designed to support the RCIC system during this time period. Without AC power, RCIC room cooling will not be available. However, room temperature during the 2 hour period will not reach the maximum temperature for which the RCIC equipment has been qualified." Per FSAR 5.4.15.2.1, the applicant will provide the analyses for the as-built facility to demonstrate that the facility has the 8-hour non-design basis SBO capability discussed in Subsection 5.4.6."

Is there an analysis to cope with RCIC Pump Room temperature rise during the whole phase 1?

2. RSS Rooms and Control Room

Per NINA REPORT p.41, during phase 1, RSS Rooms has a high temperature coping strategy. Per NINA REPORT p.27, during phase 3, command and control can be re-established in the Main Control Room. ASHRAE (1985) concludes that light work at 110 F and relative humidity up to 50% is tolerable. Is there an analysis on RSS Rooms (during phase 1) and Control Room (during phase 3) to resolve habitability concern? Is there a habitability standard, like ASHARE, being followed?

3. Steam Tunnel

Per FSAR 7.3.1.1.1.3, RCIC turbine isolation valves close on main steam tunnel ambient temperature high.

Is there a heat up analysis to demonstrate that main steam tunnel temperatures do not exceed high temperature trip set point during phase 1?

Please let me know this afternoon, if possible, you can talk to Danny Chien about these on our scheduled OI call this Wednesday. If yes, I need to make sure Jessica can accommodate.

Regards

Tom Tai
DNRL/NRO
(301) 415-8484
Tom.Tai@NRC.GOV

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"STPCOL" <STP.COL@nrc.gov>

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"Scheide, Richard" (rhscheide@STPEGS.COM) <rhscheide@STPEGS.COM>

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