

PMSTPCOL PEmails

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Sent: Wednesday, January 08, 2014 9:51 AM
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Subject: Draft RAI 7372
Attachments: RAI 7372 Draft (SCVB).docx

Dick,

Attached for your information is the draft of RAI 7372 related to RCIC room and RSS/control rooms. These are part of the December 4, 2013 telephone call.

Please let me know when is the soonest you need and can have a discussion with our reviewers.

Regards

Tom Tai

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From: Tai, Tom

Created By: Tom.Tai@nrc.gov

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Request for Additional Information

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Application Title: South Texas Project Units 3 and 4 - Dockets 52-012 and 52-013

Operating Company: South Texas Project Nuclear Operating Co

Docket No. 52-012 and 52-013

Review Section: 01.05 - Other Regulatory Considerations

Application Section: SRP 1.05

QUESTIONS

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

1. RCIC Pump Room

RCIC system is required during phase 1, i.e., 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 ABWR DCD 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 ABWR DCD FSAR 5.4.15.2.1, as a COL license information item: "COL applicants 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."

Staff request clarification in the integrated plan of a room heat up assessment, prior to fuel load, which shows the RCIC system can achieve the functions relied upon in the mitigating strategy report for the entire duration of 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.

Staff requests clarification in the integrated plan on the heat up analysis that would be done prior to fuel load to demonstrate the RSS Rooms during Phase 1 and the Control Room during Phase 3 can achieve thier mitigating strategy functions.