NuScaleTRRaisPEm Resource

From: Cranston, Gregory

Sent: Friday, June 30, 2017 2:13 PM **To:** RAI@nuscalepower.com

Cc: NuScaleTRRaisPEm Resource; Lee, Samuel; Skarda, Raymond; Karas, Rebecca; Schmidt,

Jeffrey; Chowdhury, Prosanta; Bavol, Bruce

Subject: Topical Report (TR-0516-49417-P) - Request for Additional Information Letter No. 8869

(eRAI No. 8869)

Attachments: Request for Additional Information No. 8869 (eRAI No. 8869).pdf

Attached please find NRC staff's request for additional information concerning review of the NuScale Topical Report.

Please submit your response within 60 days of the date of this RAI to the NRC Document Control Desk.

If you have any questions, please contact me.

Thank you.

Hearing Identifier: NuScale_SMR_DC_TR_Public

Email Number: 30

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Subject: Topical Report (TR-0516-49417-P) - Request for Additional Information Letter

No. 8869 (eRAI No. 8869)

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 From:
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Created By: Gregory.Cranston@nrc.gov

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Options

Priority: Standard
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Reply Requested: No
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Request for Additional Information No. 8869 (eRAI No. 8869)

Issue Date: 06/30/2017
Application Title: NuScale Topical Report
Operating Company: NuScale
Docket No. PROJ0769
Review Section: 01 - Introduction and Interfaces
Application Section: 1

QUESTIONS

01-13

Iln accordance with 10 CFR 50 Appendix A GDC 10, "Reactor design," the reactor core and associated coolant, control, and protection systems shall be designed with appropriate margin to assure that specified acceptable fuel design limits are not exceeded during any condition of normal operation, including the effects of anticipated operational occurrences. The Standard Review Plan (SRP) 15.0.2 acceptance criteria with respect to evaluation models specifies that the chosen mathematical models and the numerical solution of those models must be able to predict the important physical phenomena reasonably well from both qualitative and quantitative points of view.

The rationale behind the "importance ranking" for the heat transfer of the steam generator in Table 4-1, "Phenomena Identification and Ranking Table," for topical report (TR), TR-0516-49417-P, states that errors in the heat transfer parameter would be self-compensating because it equally affects the riser density. However, the rationale for the self-compensating errors is not clear from the TR.

In order to make an affirmative finding associated with the above regulatory requirement important to safety, NRC staff requests NuScale to provide additional clarification for the self-compensating errors associated with the heat transfer parameter.