

NuScaleTRRaisPEm Resource

From: Cranston, Gregory
Sent: Sunday, July 30, 2017 1:52 PM
To: RAI@nuscalepower.com
Cc: NuScaleTRRaisPEm Resource; Lee, Samuel; Skarda, Raymond; Karas, Rebecca; Schmidt, Jeffrey; Chowdhury, Prosanta; Bovol, Bruce
Subject: Topical Report Thermal Hydraulic Stability - Request for Additional Information Letter No. 9018 (eRAI No. 9018)
Attachments: Request for Additional Information No. 9018 (eRAI No. 9018).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: 44

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Subject: Topical Report Thermal Hydraulic Stability - Request for Additional Information
Letter No. 9018 (eRAI No. 9018)
Sent Date: 7/30/2017 1:51:36 PM
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From: Cranston, Gregory

Created By: Gregory.Cranston@nrc.gov

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Tracking Status: None

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Options

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Request for Additional Information No. 9018 (eRAI No. 9018)

Issue Date: 07/30/2017
Application Title: NuScale Topical Report
Operating Company: NuScale
Docket No. PROJ0769
Review Section: 01 - Introduction and Interfaces
Application Section: 1

QUESTIONS

01-28

In 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 accident scenario identification states that the process must include evaluation of physical phenomena to identify those that are important in determining the figure of merit for the scenario.

Voiding in the riser appears to have significant influence on the decay ratio.

In order to make an affirmative finding associated with the above regulatory requirement important to safety, NRC staff requests NuScale to justify the medium ranking assigned to flashing, as part of the PIRT, in section 4.4 of topical report, TR-0516-49417-P.