

## NuScaleTRRaisPEm Resource

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**From:** Cranston, Gregory  
**Sent:** Tuesday, July 25, 2017 4:21 PM  
**To:** RAI@nuscalepower.com  
**Cc:** NuScaleTRRaisPEm Resource; Lee, Samuel; Skarda, Raymond; Karas, Rebecca; Schmidt, Jeffrey; Chowdhury, Prosanta; Bovol, Bruce  
**Subject:** RE: Topical Report Thermal Hydraulic Stability - Request for Additional Information Letter No. 8921 (eRAI No. 8921)  
**Attachments:** Request for Additional Information No. 8921 (eRAI No. 8921).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:** 37

**Mail Envelope Properties** (d793773393ae4450a17cf112cb6420fb)

**Subject:** RE: Topical Report Thermal Hydraulic Stability - Request for Additional Information Letter No. 8921 (eRAI No. 8921)  
**Sent Date:** 7/25/2017 4:21:09 PM  
**Received Date:** 7/25/2017 4:21:15 PM  
**From:** Cranston, Gregory

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

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>	
MESSAGE	307	7/25/2017 4:21:15 PM	
Request for Additional Information No. 8921 (eRAI No. 8921).pdf			42371

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

## **Request for Additional Information No. 8921 (eRAI No. 8921)**

Issue Date: 07/25/2017

Application Title: NuScale Topical Report

Operating Company: NuScale

Docket No. PROJ0769

Review Section: 01 - Introduction and Interfaces

Application Section: 01

### QUESTIONS

01-20

Title 10 of the Code of Federal Regulations (CFR), Part 50 Appendix A, General Design Criteria (GDC) 12-Suppression of reactor power oscillations requires that oscillations be either not possible or reliably detected and suppressed.

Section 8.2.6, "Decrease in Reactor Coolant Inventory," of the topical report, TR-0516-49417-P, does not appear to address the phenomenon of upper plenum flashing.

In order to make an affirmative finding, NRC staff requests NuScale address the phenomenon of upper plenum flashing.