

NuScaleDCRaisPEm Resource

From: Cranston, Gregory
Sent: Friday, February 02, 2018 10:35 AM
To: RAI@nuscalepower.com
Cc: NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Jackson, Diane; Chien, Nan; Tabatabai, Omid
Subject: Request for Additional Information No. 359 RAI No. 9321 (6.4)
Attachments: Request for Additional Information No. 359 (eRAI No. 9321).pdf

Attached please find NRC staff's request for additional information concerning review of the NuScale Design Certification Application.

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

The NRC Staff recognizes that NuScale has preliminarily identified that the response to one or more questions in this RAI is likely to require greater than 60 days. NuScale is expected to provide a schedule for the RAI response by email within 14 days.

If you have any questions, please contact me.

Thank you.

Gregory Cranston, Senior Project Manager
Licensing Branch 1 (NuScale)
Division of New Reactor Licensing
Office of New Reactors
U.S. Nuclear Regulatory Commission
301-415-0546

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From: Cranston, Gregory

Created By: Gregory.Cranston@nrc.gov

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Options

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Request for Additional Information No. 359 (eRAI No. 9321)

Issue Date: 02/02/2018

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 06.04 - Control Room Habitability System

Application Section: 6.4

QUESTIONS

06.04-3

Reactor operators are important to nuclear safety. To support its finding on the control room and that operators can be safely at the controls under GDCs 1, 3, 4, 5, 19 and 50.54, the staff needs additional information and assurance of known operability and availability of the control room envelope. Further, 10 CFR 50.36 (c)(2)(ii)(A), Criterion 1, requires that a technical specification limiting condition for operation be established for installed instrumentation in the control room used to detect significant abnormal degradation of the reactor coolant pressure boundary. For this criterion to be meaningful an operator must be able to be present in the control room during normal and accident conditions to monitor and respond to that condition. While NuScale states that operator action is not needed to mitigate a design-basis accident, operators are expected to be in the control room and a safe environment for workers is expected.

NuScale is requested to provide a TS limiting condition for operation for assurance that the control room envelope is suitable for operator presence, including but not limited to, identifying operability conditions/criteria of the CRE, expected time to restore operability, any necessary compensatory and follow-on actions, and surveillance requirement(s) for essential components.

If NuScale believes any feature requested above is the responsibility of the license applicant, provide the location that describes, or include in the DCD, the COL Action as a specific item.