

NuScaleDCRaisPEm Resource

From: Cranston, Gregory
Sent: Tuesday, June 20, 2017 10:42 AM
To: RAI@nuscalepower.com
Cc: NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Dias, Antonio; Markley, Anthony; Li, Chang
Subject: Request for Additional Information No. 66, RAI 8880
Attachments: Request for Additional Information No. 66 (eRAI No. 8880).pdf

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

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.

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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Created By: Gregory.Cranston@nrc.gov

Recipients:

"NuScaleDCRaisPEm Resource" <NuScaleDCRaisPEm.Resource@nrc.gov>
Tracking Status: None
"Lee, Samuel" <Samuel.Lee@nrc.gov>
Tracking Status: None
"Chowdhury, Prosanta" <Prosanta.Chowdhury@nrc.gov>
Tracking Status: None
"Dias, Antonio" <Antonio.Dias@nrc.gov>
Tracking Status: None
"Markley, Anthony" <Anthony.Markley@nrc.gov>
Tracking Status: None
"Li, Chang" <Chang.Li@nrc.gov>
Tracking Status: None
"RAI@nuscalepower.com" <RAI@nuscalepower.com>
Tracking Status: None

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Request for Additional Information No. 66 (eRAI No. 8880)

Issue Date: 06/20/2017

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 09.02.05 - Ultimate Heat Sink

Application Section: 9.2

QUESTIONS

09.02.05-1

10 CFR 52.47(a)(2) requires that a standard design certification applicant provide a description and analysis of the structures, systems, and components (SSCs) of the facility, with emphasis upon performance requirements, the bases, with technical justification therefor, upon which these requirements have been established, and the evaluations required to show that safety functions will be accomplished.

FSAR Tier 2, Table 3.2-1, "Classification of Structures, Systems, and Components," identifies the ultimate heat sink (UHS) pool under SSC classification to be "A1", which is safety-related and risk-significant. However, in the same table it is listed as "N/A" under "Quality Group" and "Seismic Classification". The staff finds the determination of quality group and seismic classification inconsistent with the SSC classification. In addition, in FSAR Tier 2, Section 9.2.5, "Ultimate Heat Sink," there is no discussion about the seismic qualification of the UHS pool structure.

The applicant is requested to (1) clarify the inconsistency in Table 3.2-1, (2) provide appropriate information or a clear pointer in Section 9.2.5 to clarify the seismic categorization of the UHS pool structure, and (3) revise FSAR Tier 2 as necessary.