

NuScaleDCRaisPEm Resource

From: Cranston, Gregory
Sent: Thursday, July 13, 2017 9:25 AM
To: RAI@nuscalepower.com
Cc: NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Hart, Michelle; Franovich, Rani; Burkhart, Lawrence
Subject: RE: Request for Additional Information No. 93, RAI 8897
Attachments: Request for Additional Information No. 93 (eRAI No. 8897).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.

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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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Request for Additional Information No. 93 (eRAI No. 8897)

Issue Date: 07/13/2017

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 15.00.03 - Design Basis Accidents Radiological Consequence Analyses for Advanced Light Water Reactors

Application Section: DCD 15.0.3

QUESTIONS

15.00.03-7

Requirements for technical support center (TSC) occupancy and habitability during accidents are provided in 10 CFR 50.47(b)(8) and (b)(11), and Paragraph IV.E.8 of Appendix E to 10 CFR Part 50. NuScale design-specific review standard (DSRS) section 15.0.3 provides additional guidance on the evaluation of TSC radiological habitability, including dose acceptance criteria for dose to TSC occupants. The design basis accident (DBA) dose analyses in DCD Tier 2 Chapter 15 were performed, in part, to show compliance with the TSC habitability requirements.

During the audit of the applicant's DBA dose calculations, the staff noted that the technical support center (TSC) was modeled using different analysis inputs than were used for the main control room. Please provide the modeling assumptions for the TSC as used in the DBA dose analyses, including revisions to DCD text to clearly document the basis for the analyses, similar to the information provided in the response to RAI letter No. 13, RAI 8774, Question 15.00.03-2 (ADAMS Accession No. ML17144A451) related to the main control room model.