

NuScaleDCRaisPEm Resource

From: Cranston, Gregory
Sent: Wednesday, September 27, 2017 10:07 AM
To: RAI@nuscalepower.com
Cc: NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Martinez Navedo, Tania; Sacko, Fanta; Tabatabai, Omid
Subject: Request for Additional Information No. 242 RAI No. 9155 (8.4)
Attachments: Request for Additional Information No. 242 (eRAI No. 9155).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.

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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Request for Additional Information No. 242 (eRAI No. 9155)

Issue Date: 09/27/2017

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 08.04 - Station Blackout

Application Section: 8.4

QUESTIONS

08.04-2

The staff reviewed NuScale's June 28, 2017 response to RAI 8824 regarding compliance with 10 CFR 50.63 and requests the following additional information in order to complete its review:

- A. In its response to RAI 8824, Question 1, NuScale stated that "the coping analysis did not identify any responsibilities for the COL applicant." In the same RAI response, Part 3.2.4, NuScale further states, "An evaluation of the environmental conditions for the actual installed SBO support equipment in its final configuration will be done as part of the detailed design phase using the guidance of NUMARC 87-00 Revision 1, Guidelines and Technical Bases for NUMARC Initiatives Addressing Station Blackout at Light Water Reactors."

Based on the previous statement, the staff believes that site-specific details including offsite power configuration and weather information are needed to complete the evaluation of the environmental conditions for installed SBO equipment in accordance with the guidance in NUMARC 87-00.

QUESTION: Please provide the evaluation of the environmental conditions for installed SBO equipment, or provide a COL item that will require the COL applicant to complete the evaluation.

- B. In its response to RAI 8824, Question 1, Part 3.2.4, Subpart 2, and Part 3.2.5, NuScale invokes Topical Report (TR) 0815-16497, "Safety Classification of Passive Nuclear Power Plant Electrical Systems," Rev 0, regarding conformance to RG 1.155, Section C.3.2 on Station Blackout. However, FSAR Section 8.4 does not reference the TR.

QUESTION: Since NuScale is relying on the TR to support conformance to RG 1.155, please add the TR as a reference in Chapter 8.4 of the FSAR.