

## NuScaleDCRaisPEm Resource

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**From:** Cranston, Gregory  
**Sent:** Friday, July 07, 2017 8:10 AM  
**To:** RAI@nuscalepower.com  
**Cc:** NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Burkhart, Lawrence; Williams, Stephen; Markley, Anthony  
**Subject:** Request for Additional Information No. 80, RAI 8751  
**Attachments:** Request for Additional Information No. 80 (eRAI No. 8751).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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## **Request for Additional Information No. 80 (eRAI No. 8751)**

Issue Date: 07/07/2017

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 11.02 - Liquid Waste Management System

Application Section: DSRS 11.2

### QUESTIONS

11.02-1

RG 1.143 describes design guidance acceptable to the NRC staff related to seismic, safety, and quality group classifications and quality assurance provisions for the systems, structures, and components (SSCs) of the LWMS for liquids and liquid wastes produced during normal operation and AOOs.

Following the guidance of RG 1.143 provides reasonable assurance that the assigned safety classifications for structures housing the LWMS and its components comply with the requirements of GDCs 2 and 61 for natural phenomena and man-induced hazards. Providing the necessary information to identify the amounts of radioactive materials contained in LWMS and to assess the radiological impacts during postulated accidents, as described in SRP Section 2.4.13, DSRS Section 11.2, BTP 11-6, and RG 1.143 in assigning the safety classifications to SSCs of the LWMS for design purposes will support the staff's reasonable assurance that the requirements of GDCs 2 and 61 are met

The DCD should describe the radionuclide source term inventories and basis of all installed radwaste SSCs as documented in DSRS Sections 11.2, 11.3, 11.4, 11.5, and 11.6. In addition the DCD should identify the safety classifications (RW-IIa, RW-IIb, RW-IIc) of all SSCs in the radwaste management facility, per RG 1.143. The DCA should describe the radionuclide source term inventories and basis of all installed radwaste Structures, Systems, and Components (SSCs) in DSRS Sections 11.2, 11.3, 11.4, 11.5, and 11.6 and identify the safety classifications (RW-IIa, RW-IIb, RW-IIc) of all SSCs in the radwaste management facility, per RG 1.143.

The DCD does not provide sufficient information for staff to verify the safety classifications of the radwaste management facility using the guidance in RG 1.143. The additional information described above is necessary to support the staff's regulatory findings.

Please address these items and provide a markup for the proposed DCD changes