

## NuScaleDCRaisPEm Resource

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**From:** Cranston, Gregory  
**Sent:** Monday, January 08, 2018 9:04 AM  
**To:** RAI@nuscalepower.com  
**Cc:** NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Burkhart, Lawrence; Williams, Stephen; Markley, Anthony  
**Subject:** Request for Additional Information No. 323 RAI No. 9251 (11.4)  
**Attachments:** Request for Additional Information No. 323 (eRAI No. 9251).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.

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

**Hearing Identifier:** NuScale\_SMR\_DC\_RAI\_Public  
**Email Number:** 350

**Mail Envelope Properties** (CY4PR09MB128710483745CFA6D801A4E790130)

**Subject:** Request for Additional Information No. 323 RAI No. 9251 (11.4)  
**Sent Date:** 1/8/2018 9:03:49 AM  
**Received Date:** 1/8/2018 9:03:52 AM  
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**Post Office:** CY4PR09MB1287.namprd09.prod.outlook.com

Files	Size	Date & Time
MESSAGE	556	1/8/2018 9:03:52 AM
Request for Additional Information No. 323 (eRAI No. 9251).pdf		60396

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**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

## Request for Additional Information No. 323 (eRAI No. 9251)

Issue Date: 01/08/2018

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 11.04 - Solid Waste Management System

Application Section: 11.4

### QUESTIONS

11.04-1

#### 11.4 RAI - Waste Generation Rates and Storage Areas

##### Regulatory Basis:

10 CFR Part 50, Appendix A, GDC 60 and 61 as it relates to understanding the estimated annual volumes of dry and wet solid waste generated by the NuScale design. The staff is seeking this information to support the minimum onsite storage assumption of 30 days, as described by ANSI/ANS-55.1-1992 and BTP 11-3.

##### Key Issues:

The assumptions in the DCD used in determining the generation of both solid and wet wastes as described in DCD Tables 11.4-2 and 11.4-3 are unclear.

As discussed in the audit, the staff requested the basis of the 450 cubic ft / year of spent resin. Further review of DCD Table 11.4-2 and 11.4-3 indicated that additional details were required to confirm the applicant's assertion of meeting ANSI/ANS-55.1-1992 and BTP 11-3.

##### Questions:

1. The staff requests the applicant provide the details of the assumed generation of waste volumes, and any assumptions used to determining the fractions of waste that would be accounted for in the volumes generated by the applicant.
2. Additionally, the staff is seeking information to verify the applicant has sufficient space for storage by identifying the waste storage areas used to store waste within corresponding waste storage areas.