

## NuScaleDCRaisPEm Resource

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**From:** Cranston, Gregory  
**Sent:** Tuesday, June 27, 2017 2:33 PM  
**To:** RAI@nuscalepower.com  
**Cc:** NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Jackson, Diane; Travis, Boyce; Tabatabai, Omid  
**Subject:** Request for Additional Information No. 73, RAI 8910  
**Attachments:** Request for Additional Information No. 73 (eRAI No. 8910).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

**Hearing Identifier:** NuScale\_SMR\_DC\_RAI\_Public  
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**From:** Cranston, Gregory

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**Request for Additional Information No. 73 (eRAI No. 8910)**

Issue Date: 06/27/2017

Application Title: NuScale Standard Design Certification - 52-048 Operating

Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 06.02.02 - Containment Heat Removal Systems Application

Section: 6.2.2

QUESTIONS

06.02.02-2

GDC 39 requires, in part, that the containment heat removal system shall be designed to permit appropriate periodic inspection of important components to assure the integrity and capability of the system.

NuScale's exemption request for GDC 40 states that periodic inspections of the containment heat removal surfaces will assess surface fouling or degradation that could potentially impede heat transfer from the containment, and that further details of these inspections and the conformance with GDC 39 is provided in FSAR Section 6.2.2. FSAR Section 6.2.2 makes a similar statement and refers to the performance of "periodic inservice inspection of the containment heat removal surfaces", but no reference to these inspections are made elsewhere, such as in a technical specification surveillance. FSAR Section 6.6, "Inservice Inspection and Testing of Class 2 and 3 Systems and Components" does not appear to govern the inspection of the containment vessel for fouling, as the containment vessel is specified as a Class I component in Tier 1, Table 2.1-2, "NuScale Power Module Mechanical Equipment".

The staff requests NuScale to provide a programmatic assurance that establishes the requirement to perform periodic inspection of the containment heat removal surfaces. Additionally, provide updated FSAR pages to include the additional detail and reflect the current design and programs."rovide updated FSAR pages to include the additional detail and reflect the current design and programs.