



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

November 19, 2018

MEMORANDUM TO: Samuel S. Lee, Chief  
Licensing Branch 1  
Division of Licensing, Siting,  
and Environmental Analysis  
Office of New Reactors

FROM: Omid Tabatabai, Senior Project Manager */RA/*  
Licensing Branch 1  
Division of Licensing, Siting,  
and Environmental Analysis  
Office of New Reactors

SUBJECT: SUMMARY OF THE NOVEMBER 13, 2018, PUBLIC MEETING  
WITH NUSCALE POWER, LLC., TO DISCUSS NUSCALE'S  
RESPONSE TO THE U.S. NUCLEAR REGULATORY  
COMMISSION STAFF'S REQUEST FOR ADDITIONAL  
INFORMATION NO. 9534

On November 13, 2018, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC., (NuScale) held a public meeting to discuss NuScale's response to NRC staff's request for additional information (RAI) No. 9534.

Enclosure 1 captures the summary of the topics discussed during the meeting. The Meeting Agenda and List of Attendees are included in Enclosures 2 and 3, respectively. The meeting notice for this meeting is available in the Agencywide Documents Access and Management System (ADAMS) under accession number ML18298A275.

Docket No. 52-048

Enclosures:  
As stated

cc w/enclosures: DC NuScale Power, LLC ListServ

CONTACT: Omid Tabatabai, NRO/DLSE  
301-415-6616

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 NUSCALE POWER, LLC., TO DISCUSS NUSCALE'S RESPONSE TO THE  
 U.S. NUCLEAR REGULATORY COMMISSION STAFF'S REQUEST FOR  
 ADDITIONAL INFORMATION NO. 9534  
 DATED: November 19, 2018

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ADAMS Accession No.: ML18318A102

\*via email

NRC-001

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**U.S. NUCLEAR REGULATORY COMMISSION**

**SUMMARY OF THE NOVEMBER 13, 2018, PUBLIC MEETING WITH NUSCALE POWER, LLC., TO DISCUSS NUSCALE'S RESPONSE TO THE U.S. NUCLEAR REGULATORY COMMISSION STAFF'S REQUEST FOR ADDITIONAL INFORMATION NO. 9534**

On June 15, 2018, the U.S. Nuclear Regulatory Commission (NRC) staff issued a request for additional information (RAI) No. 9534 to NuScale Power, LLC., (NuScale) to obtain additional information regarding NuScale design's control room habitability and compliance with Title 10 of the *Code of Federal Regulation* (10 CFR) Part 50, Appendix A, "General Design Criteria for Nuclear Power Plants," Criterion 19, "Control Room." The NRC staff's RAI is accessible in ADAMS under accession number ML18166A308. NuScale submitted its response to RAI 9534 in August 2018, and supplemental responses, in October 2018. NuScale's response and supplemental responses are available in ADAMS (ML18242A685, ML18275A426, and ML18275A426).

The staff reviewed the supplemental information describing the inputs and assumptions used in NuScale's control room habitability sensitivity analyses and had a question about the assumption of five cfm outside air intake flow during the period when failure of the non-safety-related control room ventilation system (CRVS) supplemental filtration mode was modeled. Specifically, the staff noted that NuScale's design certification application (DCA), Tier 2, Section 6.4, "Control Room Habitability," (Table 6.4-1) stated that the minimum air supply needed to maintain breathable air in the control room envelope with respect to CO<sub>2</sub> was listed as 80 cfm.

The staff stated that the radiological dose sensitivity analyses should also model realistic assumptions with regard to breathable air, and it appears to the staff that an assumed air supply of 5 cfm for a period of 27 days would not be sufficient. Given an increase in the outside air intake flow rate over 5 cfm, the staff's independent analyses show that the estimated dose in the control room increases, approaching closer to the 5 rem total effective dose equivalent (TEDE) dose criterion. Therefore, the staff asked NuScale to either provide a justification for the assumption of 5 cfm used in the current sensitivity analyses, or revise the analyses to use a reasonable air intake flow rate assumption to maintain breathable air in the control room, with justification.

The staff also asked NuScale to consider providing a discussion in the DCA to describe the sensitivity analyses to support the defense-in-depth capability of the control room habitability design. The applicant took it as an action to consider the discussion in the meeting and inform the staff on its plan to address the staff's concern with the sensitivity analyses.

**U.S. NUCLEAR REGULATORY COMMISSION**

**SUMMARY OF THE NOVEMBER 13, 2018, PUBLIC MEETING WITH NUSCALE POWER, LLC., TO DISCUSS NUSCALE'S RESPONSE TO STAFF'S REQUEST FOR ADDITIONAL INFORMATION NO. 9534**

**MEETING AGENDA**

<b><u>Time</u></b>	<b><u>Topic</u></b>
1:00 p.m.– 1:10 p.m.	Introduction
1:10 p.m.– 1:55 p.m.	RAI 9534 Discussions
1:55 p.m.– 2:00 p.m.	Public Comments
2:00 p.m.	Adjourn

**U.S. NUCLEAR REGULATORY COMMISSION**

**SUMMARY OF THE NOVEMBER 13, 2018, TELECONFERENCE WITH NUSCALE**

**LIST OF ATTENDEES**

**NRC**

Michelle Hart  
Omid Tabatabai  
Michael Dudek

**NuScale**

John Palsmeier  
Paul Guinn  
Mark Shaver  
Lee Dougherty  
Carrie Fosaaen

**Members of the Public**

Sarah Fields