



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

April 25, 2018

MEMORANDUM TO: Samuel S. Lee, Chief  
Licensing Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Omid Tabatabai, Senior Project Manager */RA/*  
Licensing Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: SUMMARY OF THE APRIL 3, 2018, PUBLIC MEETING WITH  
NUSCALE POWER, LLC, TO DISCUSS THE U.S. NUCLEAR  
REGULATORY COMMISSION STAFF QUESTIONS RELATED  
TO THE NUSCALE'S MAIN CONTROL ROOM DESIGN AND  
HABITABILITY

On April 3, 2018, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC (NuScale) held a public teleconference meeting to discuss the NRC staff's questions related to NuScale's main control room design and habitability.

Enclosure 1 captures the summary of the topics discussed during the teleconference. The agenda and list of meeting 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 No. ML18092A110.

Docket No. 52-048

Enclosures:  
1. Meeting Summary  
2. Agenda  
3. Attendees

CONTACT: Omid Tabatabai, NRO/DNRL  
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SUBJECT: SUMMARY OF THE APRIL 3, 2018, PUBLIC MEETING WITH NUSCALE POWER, LLC, TO DISCUSS THE U.S. NUCLEAR REGULATORY COMMISSION STAFF QUESTIONS RELATED TO THE NUSCALE'S MAIN CONTROL ROOM DESIGN AND HABITABILITY  
 DATED: 4/25/2018

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NuScale DC Listserv

ADAMS Accession No.: ML18107A581

\*via email

NRC-001

OFFICE	NRO/DNRL/LB1:PM	NRO/DNRL/LB1:LA*	NRO/DSRA/SCVB:BC*	NRO/DNRL/LB1:PM
NAME	OTabatabai	MMoore	GCranston	OTabatabai
DATE	4/15/2018	4/18/2018	4/25/2018	4/25/2018

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**U.S. NUCLEAR REGULATORY COMMISSION**  
**SUMMARY OF THE APRIL 3, 2018, TELECONFERENCE**  
**WITH NUSCALE POWER, LLC TO DISCUSS CONTROL ROOM HABITABILITY**

The U.S. Nuclear Regulatory Commission (NRC) staff requested this public meeting to discuss their questions related to: (1) the dose in the main control room (MCR) under various scenarios, and (2) plant operators' role to mitigate the consequences of a beyond design-basis event. This meeting was a follow-up to the NRC staff and NuScale Power, LLC (NuScale) meeting regarding NuScale's main control room design and habitability on February 26, 2018. The summary of February 26, 2018, meeting is available in Agencywide Documents Access and Management System (ADAMS) under Accession No. ML18065A697.

To provide further clarification to NuScale's response to NRC staff's RAI 9079 (ADAMS Accession No. ML17291A672), the NRC staff asked NuScale to discuss whether they had done any analyses to determine the sensitivity of the control room design basis event (DBA) dose to potential failure of the non-safety-related control room ventilation systems. NuScale explained that they did not find such analyses to be necessary, and further described the operation of the control room ventilation system (CRVS) and control room habitability system (CRHS) during a DBA to support that decision.

NuScale also informed the NRC staff that there will not be either a CRHS or CRVS specification since the control room and associated ventilation systems do not meet any of the Title 10 of *Code of Federal Regulations*, Section 50.36(c)(2) criteria for having a limiting condition for operation (LCO) in the technical specifications (TS).

NuScale, however, agreed to the following two actions:

1. include the availability and reliability requirements and controls in an owner-controlled requirements manual, along with required testing (i.e., surveillances) comparable to what would be in technical specifications. The contents of the owner-controlled requirements manual will be provided, and
2. include in the final safety analysis report (FSAR) information on how the general design criteria (GDC) 19 requirements for maintaining a safe control room during normal and accident conditions would be met, particularly from a dose perspective. Also, information would be included on the expectations on how the control room would be maintained in an available status after 72 hours; the assumption being that the CR would be available thru 72 hours via the air bottles (air bottle requirements would be included in the owner-controlled requirements manual, along with leakage, ventilation and temperature requirements, to name a few requirements to be included in the owner-controlled requirements manual).

The NRC and NuScale staffs emphasized the need for further interactions and that supplemental information from NuScale was needed to enable the NRC staff make a safety finding regarding NuScale's control room habitability system air bottle design.

**U.S. NUCLEAR REGULATORY COMMISSION**  
**SUMMARY OF THE APRIL 3, 2018, TELECONFERENCE**  
**WITH NUSCALE POWER, LLC**

**MEETING AGENDA**

Time	Topic	Lead
1:00 – 1:10 pm	Meeting Introductions	NRC/NuScale
1:10 – 2:10 pm	Discussion of Staff's Questions	NRC/NuScale
2:10 – 2:15 pm	Public Comments/Questions	Public
2:15 – 2:20 pm	Meeting Conclusion	NRC/NuScale

**U.S. NUCLEAR REGULATORY COMMISSION**  
**SUMMARY OF THE APRIL 3, 2018, TELECONFERENCE**  
**WITH NUSCALE POWER, LLC**

**LIST OF ATTENDEES**

**NuScale Power, LLC**

Mark Paul  
Dan Lassiter  
Paul Guinn  
Mark Shaver  
Gary Becker  
Doug Bowman  
Carrie Fosaaen

**U.S. Nuclear Regulatory Commission Staff**

Omid Tabatabai  
Michelle Hart  
Luis Betancourt  
Dan Barss  
Ron Lavera  
Joseph Anderson  
Theodore (Bob) Tjader  
Nan (Danny) Chien  
Maurin Scheetz  
Clint Ashley  
Boyce Travis  
Greg Cranston  
Sam Lee

**Other Attendees**

Olivier Lareynie (French Nuclear Regulatory Agency – ASN)  
Sarah Fields (Uranium Watch)