

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

301-415-6616

S. Lee 2

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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ADAMS A	ccession No.: ML18	107A581 *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:

- 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)