

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

June 12, 2018

MEMORANDUM TO: Samuel S. Lee, Chief

Licensing Branch 1

Division of Licensing, Sitting, and Environmental Assessment

Office of New Reactors

FROM: Omid Tabatabai, Senior Project Manager /RA/

Licensing Branch 1

Division of Licensing, Sitting, and Environmental Assessment

Office of New Reactors

SUBJECT: SUMMARY OF THE MARCH 7, 2018, PUBLIC MEETING WITH

NUSCALE POWER, LLC, TO DISCUSS THE U.S. NUCLEAR REGULATORY COMMISSION STAFF QUESTIONS RELATED

TO INITIAL TEST PROGRAM

On March 7, 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 approach to initial test program, as described in Section 14.2, "Initial Plant Test Program" of NuScale design certification application.

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 under Accession No. ML18066A242.

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 MARCH 7, 2018, PUBLIC MEETING WITH NUSCALE

POWER, LLC, TO DISCUSS THE U.S. NUCLEAR REGULATORY COMMISSION

STAFF QUESTIONS RELATED TO INITIAL TEST PROGRAM

DATED: <u>June 12, 2018</u>

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ADAMS Accession No.: ML18072A285 *via email NRC-001

OFFICE	NRO/DNRL/LB1:PM	NRO/DNRL/LB1:LA*	NRO/DCIP/QVIB2:BC*	NRO/DNRL/LB1:PM
NAME	OTabatabai	SGreen	KKavanagh	OTabatabai
DATE	3/12/2018	6/12/2018	3/19/2018	3/19/2018

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U.S. NUCLEAR REGULATORY COMMISSION

SUMMARY OF THE MARCH 7, 2018, TELECONFERENCE WITH NUSCALE POWER, LLC TO DISCUSS STAFF'S QUESTIONS RELATED TO NUSCALE'S APPROACH TO INITIAL PLANT TEST PROGRAM

The following table captures the summary of discussions, specifically, staff's questions and NuScale's response.

Item	Staff's Comment	Status
No.	Stan's Comment	Status
1	Provide an overview of the NuScale initial test program (ITP) approach to testing and the graded approach to preoperational testing (see Section 14.2.3.2, "Graded Approach to Testing.")	This item has been identified as out of scope per the new review approach regarding the NuScale Power, LLC (NuScale), initial test program (ITP). For more details see memoranda, "Proposed Pilot Approach for the NuScale Power, LLC, Initial Test Program Review," dated March 7, 2018 (ADAMS Accession No. ML18060A298). Therefore, this item will not be required for review at the design certification stage. No further actions are needed. Status: Unresolved/Closed
2	What is the NuScale approach for the individual test methods? For example, which ITP tests are required to be tested only from the main control room (MCR) (e.g., visual observation), remote shutdown station (RSS), and/or local control panels?	The applicant agreed to remove references of the Remote Shutdown station and/or local control panels in the individual test methods. Status: Resolved / Confirmatory Item
3	Last bullet under objectives of Section 14.2.2, "Summary of Initial Test Program and Objectives," states, complete and document the ITP testing required to satisfy preoperational and startup testing requirements and Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) testing requirements.	The applicant agreed to include a new subsection in FSAR Section 14.2 to describe the relationship between the preoperational tests and ITAAC. Status: Resolved / Confirmatory Item
	Does this imply that the ITP testing satisfies Inspections,	

4	Tests, Analyses, and Acceptance Criteria (ITAAC) testing requirements? Several ITP testing imply that ITAAC satisfies portions of ITP. What I&C platforms/networks are needed to be operational to perform the ITP? For example, starting with Table 14.2-1:	This item has been identified as out of scope per the new review approach regarding the NuScale ITP. For more details see memoranda, "Proposed Pilot Approach for the NuScale Power, LLC, Initial Test Program Review," dated
	Spent Fuel Pool Cooling System Test # 1," discuss the following: Is the MCR required to be	March 7, 2018 (ADAMS Accession No. ML18060A298). Therefore, this item will not be required for review at the design certification stage. No further actions are needed.
	fully operational prior to performing any ITP tests? Is making the MCR operational part of an ITP	Status: Unresolved/Closed
	test? If so, which ITP test? If not, which ITAAC.	
5	As it pertains to question # 1 (shown above), discuss how the interfaces between different workstations in the MCR and RSS will be tested.	NuScale Power, LLC, Initial Test Program Review," dated March 7, 2018 (ADAMS Accession No. ML18060A298). Therefore, this item will not be required for review at the design certification stage. No further actions are needed.
		Status: Unresolved/Closed
6	On the premise that the factory acceptance testing (FAT) would satisfy the logic for the I&C platforms, does this include	the nonsafety-related platforms
	FAT for the nonsafety-related platforms? If not, will there be a FAT for nonsafety-related platforms?	Status: Resolved / Confirmatory Item

FSAR Table 1.9-2, The applicant agreed to include a statement in FSAR "Conformance with Regulatory Section 14.2.7 to describe the deviations from Regulatory Guides," includes an Guide 1.68 and the new review approach for the NuScale identification and description of ITP. deviations from the guidance in the NRC Regulatory Guides, Status: Resolved / Confirmatory Item as well as suitable justifications for any alternative approaches proposed. This table identifies deviations for Regulatory Guide 1.68, "Initial Test Programs for Water-Cooled Nuclear Power Plants." Revision 4. Describe the deviations in FSAR Section 14.2, "Initial Test Program. 8 Are all plant controllers and This item has been identified as out of scope per the new indications available in the review approach regarding the NuScale ITP. For more Module Control System (see details see memoranda, "Proposed Pilot Approach for the Table 14.2-61, "Module NuScale Power, LLC, Initial Test Program Review," dated Control System Test # 61")? March 7, 2018 (ADAMS Accession No. ML18060A298). Therefore, this item will not be required for review at the Are the indications monitored in the main control room design certification stage. No further actions are needed. identical to the remote shutdown station (RSS) (e.g., Status: Unresolved/Closed Test 1, component level test vi)? If not, what signals are designed to be displayed in the RSS?"

<u>U.S. NUCLEAR REGULATORY COMMISSION</u> <u>SUMMARY OF THE March 7, 2018, TELECONFERENCE</u>

WITH NUSCALE POWER, LLC

MEETING AGENDA

Time	Topic	Lead
1:00 – 1:10 pm	Meeting Introductions	NRC/NuScale
1:10 – 2:45 pm	Discussion of Staff's Questions	NRC/NuScale
2:45 – 2:50 pm	Public Comments/Questions	Public
2:50 – 3:00 pm	Meeting Conclusion	NRC/NuScale

U.S. NUCLEAR REGULATORY COMMISSION

SUMMARY OF THE March 6, 2018, TELECONFERENCE

WITH NUSCALE POWER, LLC

LIST OF ATTENDEES

NuScale Power, LLC

Carl Dumsday Brian Arnholt Steve Pope Ken Langdon Rufino Ayala Dustin Greenwood

U.S. Nuclear Regulatory Commission Staff

Omid Tabatabai Luis Betancourt Kerri Kavanagh Aaron Armstrong Paul Prescott Dinesh Taneja Joseph Ashcraft Taylor Lamb Olivia Makula Demetrius Murray

Members of the Public

Sarah Fields, Uranium Watch