



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

September 17, 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 AUGUST 1, 2018 AND AUGUST 30, 2018,
PUBLIC MEETINGS WITH NUSCALE POWER, LLC, TO
DISCUSS THE U.S. NUCLEAR REGULATORY COMMISSION
STAFF'S REVIEW OF NUSCALE'S DESIGN CERTIFICATION
APPLICATION, TIER 2, CHAPTER 14.2, "INITIAL TEST
PROGRAM"

On August 1, 2018 and August 30, 2018, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC (NuScale) held two public teleconference meetings to discuss the NRC staff's questions related to the NuScale Design Certification Application, Tier 2, Chapter 14.2, "Initial Test Program."

Enclosure 1 captures the summary of the topics discussed during the teleconference. The agenda and list of meetings attendees are included in Enclosures 2 and 3, respectively. The meeting notices for the August 1, 2018 and August 30, 2018, are available in the Agencywide Documents Access and Management System under Accession No. ML18192A254, and ML18242A031, respectively.

Docket No. 52-048

Enclosures:

1. Meeting Summary
2. Agenda
3. Attendees

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

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DATED: September 17, 2018

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ADAMS Accession No.: ML18255A315

*via email

NRC-001

OFFICE	NRO/DLSE/LB1:PM	NRO/DLSE/LB1:LA*	NRO/DCIP/QVIB:BC*	NRO/DLSE/LB1:PM
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DATE	9/17/2018	9/13/2018	9/17/2018	9/17/2018

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U.S. NUCLEAR REGULATORY COMMISSION
SUMMARY OF THE AUGUST 1, 2018 AND AUGUST 30, 2018, PUBLIC MEETINGS
WITH NUSCALE POWER, LLC, TO DISCUSS
THE NRC STAFF'S REVIEW OF NUSCALE'S DESIGN CERTIFICATION APPLICATION,
TIER 2, CHAPTER 14.2, "INITIAL TEST PROGRAM"

On August 1, 2018 and August 30, 2018, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC, (NuScale) met to discuss the scope of the NRC staff's review of NuScale Initial Test Program, as described in NuScale's Design Certification Application (DCA), Tier 2, Chapter 14.2, "Initial Test Program."

During the August 1, 2018 meeting, NuScale made a presentation to the NRC staff entitled, "Risk-Informed Review of NuScale Initial Test Program." NuScale's presentation material is publicly available in the Agencywide Documents Access Management System (ADAMS) under Accession No. ML18213A157. NuScale concluded its presentation by requesting NRC to revise its review approach for NuScale's initial test program (ITP) to, (1) include the review of the test abstracts pertaining to inspections, tests, analyses, and acceptance criteria and first-of-a-kind in the DCA review, and (2) apply a risk-informed review approach during the combined license stage. The NRC staff asked several clarifying questions during the meeting to understand how NuScale's requests would address regulatory requirements applicable to the review of ITP during the design certification review stage. The NRC and NuScale staffs agreed to discuss the issue internally and meet again to continue their discussion. A follow-up meeting was later set for August 30, 2018.

During August 30, 2018, meeting the NRC staff requested clarification from NuScale regarding the scope of the ITP review that NuScale was seeking given that ITP is not required as part of a DCA review. NuScale indicated that their proposed scope of the review should include the safety-related and risk-significant (A.1, A.2, and B.1) test abstracts. These tests should be fully reviewed. The NRC staff questioned whether this would include system functions as described in DCA section 17.4 and that emphasized that the staff needs to understand the full scope such that an adequate resource estimate can be established.

NuScale agreed to provide a roadmap for the 110 initial tests and the various systems with varying levels of safety and risk significance (A1, A2, and B1). The NRC staff agreed to review the information and provide feedback to NuScale. This roadmap would be discussed and agreed upon with NuScale at a later date. The NRC staff also raised concerns that NuScale ITP contains "untested design functions" that are expected to be tested. NuScale requested that the staff clarify what was missing from their DCA in order for NuScale to address. The NRC staff informed NuScale that a request for additional information (RAI) was being prepared, however, NuScale requested that the staff not issue the RAI until after another round of public meeting to allow further discussions related to the NuScale ITP.

The meeting participants also briefly discussed NuScale's white paper (available publicly in ADAMS under Accession No. ML18260A317) that was submitted late on August 29, 2018,

which compares NuScale's ITP submittal to the ITP that was approved in the ESBWR DCD. The NRC staff indicated that it did not have time to digest the content of the white paper. The NRC and NuScale staffs agreed to schedule a follow-up meeting to continue their discussions. A follow-up meeting has been scheduled for September 18, 2018.

U.S. NUCLEAR REGULATORY COMMISSION

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NUSCALE POWER, LLC, TO DISCUSS THE U.S. NUCLEAR REGULATORY COMMISSION
STAFF'S REVIEW OF NUSCALE'S DESIGN CERTIFICATION APPLICATION, TIER 2,
CHAPTER 14.2, "INITIAL TEST PROGRAM"**

MEETING AGENDA

August 1, 2018

Introduction	1:00 – 1:10 pm
Staff's questions related to NuScale ITP	1:10 – 2:45 pm
Public Comments	2:55 – 3:00 pm

August 30, 2018

Introduction	11:00 – 11:10 am
Staff's questions related to the Scope of NuScale ITP	11:10 – 11:20 am
A comparison between ESBWR and NuScale Pre-Op Test	11:20 – 11:55 am
Public Comments	11:55 – 12:00 pm

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STAFF'S REVIEW OF NUSCALE'S DESIGN CERTIFICATION APPLICATION, TIER 2,
CHAPTER 14.2, "INITIAL TEST PROGRAM"

LIST OF MEETING ATTENDEES – AUGUST 1, 2018

NuScale Power, LLC

Brian Arnholt
Gary Becker
Allyson Callaway
Carl Dumsday
Carrie Fosaaen
Dustin Greenwood
Scott Harris
Chris Maxwell
Steve Pope
Rick Rosenstein

U.S. Nuclear Regulatory Commission Staff

Michelle Hayes
Odunayo Ayegbusi
Omid Tabatabai

LIST OF MEETING ATTENDEES – AUGUST 30, 2018

NuScale Power, LLC

Brian Arnholt
Gary Becker
Carl Dumsday
Edan Engstrom
Carrie Fosaaen
Dustin Greenwood
Nadja Joergensen
Mike Keller
Ken Langdon
Chris Maxwell
Steve Pope
Jennie Wike

U.S. Nuclear Regulatory Commission Staff

Tim McGinty
Paul Krohn
Robert Taylor
Kevin Coyne
Luis Betancourt
Ryan Nolan
Boyce Travis
Joseph Ashcraft
Samuel Lee
Kerri Kavanagh
Olivia Mikula
Shana Helton
Greg Cranston
Marieliz Vera

Members of the Public

Sarah Fields
Cynthia Wheeler