



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 2, 2018, PUBLIC MEETING WITH
NUSCALE POWER, LLC, TO DISCUSS NUSCALE'S PLANS TO
RESPOND TO THE U.S. NUCLEAR REGULATORY
COMMISSION STAFF'S REQUEST FOR ADDITIONAL
INFORMATION REGARDING ITS DESIGN CERTIFICATION
APPLICATION, TIER 2, SECTIONS 3.7, "SEISMIC DESIGN,"
AND 3.8, "DESIGN OF CATEGORY I STRUCTURES"

On April 2, 2018, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC (NuScale) held a public teleconference meeting to discuss NuScale's plans to respond to the NRC staff's request for additional information (RAI) regarding its design certification application, Tier 2, Sections 3.7, "Seismic Design," and 3.8, "Design of Category I Structures," information. NuScale's RAI response schedule is available in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML18090A003.

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 ADAMS under Accession No. ML18078A783.

Docket No. 52-048

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

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

SUBJECT: SUMMARY OF THE APRIL 2, 2018, PUBLIC MEETING WITH NUSCALE POWER, LLC, TO DISCUSS NUSCALE'S PLANS TO RESPOND TO THE U.S. NUCLEAR REGULATORY COMMISSION STAFF'S REQUEST FOR ADDITIONAL INFORMATION REGARDING ITS DESIGN CERTIFICATION APPLICATION, TIER 2, SECTIONS 3.7, "SEISMIC DESIGN," AND 3.8, "DESIGN OF CATEGORY I STRUCTURES" DATED: 4/25/2018

DISTRIBUTION:

PUBLIC

SLee, NRO

GCranston, NRO

AGrady, NRO

JHuang, NRO

MHart, NRO

CAshley, NRO

Alstar, NRO

RRoche, NRO

OTabatabai, NRO

YLi, NRO

ABradford, NRO

RTaylor, NRO

TLupold, NRO

RidsNroDnrILb1

RidsNroDnrI

RidsAcrcAcnwMailCenter

RidsOgcMailCenter

NuScale DC Listserv

ADAMS Accession No.: ML18115A156 *via email NRC-001

OFFICE	NRO/DNRL/LB1: PM	NRO/DNRL/LB1: LA	NRO/DEI/SEB: BC*	NRO/DNRL/LB1: PM
NAME	OTabatabai	MMoore	SSamadar	OTabatabai
DATE	4/25/2018	04/25/2018	4/25/2018	4/25/2018

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION
SUMMARY OF THE APRIL 2, 2018, PUBLIC MEETING WITH
NUSCALE POWER, LLC, TO DISCUSS NUSCALE'S PLANS TO RESPOND
TO THE STAFF'S REQUESTS FOR ADDITIONAL INFORMATION REGARDING SECTIONS
3.7, "SEISMIC DESIGN," AND 3.8, "DESIGN OF CATEGORY I STRUCTURES"

The purpose of this public meeting was for NuScale Power, LLC (NuScale) to discuss and describe its plans and provide a schedule to respond to the NRC staff's request for additional information (RAI) regarding its design certification application (DCA), Tier 2, Sections 3.7, "Seismic Design," and 3.8, "Design of Category I Structures," information. NuScale's RAI response schedule, with the NRC staff's feedback, is available in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML18090A003.

NuScale's plan and schedule provided a better understanding of the specific issues and actions that are needed to be taken to address the NRC staff's concerns. During the public meeting, NuScale and the NRC staff discussed all the elements in the closure plan. Specifically, the participants discussed the NRC staff's comments on the proposed plan by NuScale to ensure the issues will be resolved in accordance with the schedule established in the plan. NuScale agreed to incorporate all the comments and feedback that the NRC staff provided on the proposed closure plan, and submit a revised version of the closure plan accordingly. Some of the specific actions items that were captured and agreed during the meeting are listed below:

- NuScale agreed to provide the demand/capacity ratios for the dry dock gate to confirm NuScale's assumption that the gates will not fail.
- There is a possibility that NuScale's closure plan for the Bio-shield (i.e. plan addressing the Sections 3.7, "Seismic Design," and 3.8, "Design Of Category I Structures," questions as well as Bio-shield questions for other FSAR Sections) will be included in the closure plan for Sections 3.7 and 3.8, but the option to keep a separate plan for the Bio-shield is also being considered.
- The NRC staff noted that the closure plan in response to RAI 03.08.04-1 did not include the actions planned for providing the design information for the Reactor Flange Tool (RFT) and the Containment Flange Tool (CFT) and the plan for developing the seismic input motion for the upper core plate elevations when the Reactor Pressure Vessel (RPV) is placed on the RFT. NuScale will include the actions planned for addressing this issue in the updated plan.
- The planned actions for addressing the RAI 03.08.02-14 regarding performing the Type B test for the trip and reset valve was included in the structural closure plan. The NRC staff identified some inconsistency regarding the test pressure. For RAI 9315, question 3.8.2-14, closure plan Item No. 9, NuScale commits to Appendix J, Type B tests for the RVV and RRV test and reset valve flanges to peak accident pressure, Pa. However, in NuScale's DCA, Tier 2, Section 6.2.6.2, "Containment Penetration Leakage Rate Test," and in NuScale TR-1116-51962-NP, "NuScale Containment Vessel Integrity Assurance," NuScale commits to Type B tests for these test and reset valve flanges to RCS design pressure. The NRC staff requested NuScale to address the discrepancy and to inform

us of the Type B test pressure they propose to test the reset and test valve flanges. NuScale committed to respond formally.

The NRC staff and NuScale agreed to hold a follow up meeting in May 2018 to discuss NuScale's revised final closure plan before it is formally submitted for docketing.

U.S. NUCLEAR REGULATORY COMMISSION
SUMMARY OF THE APRIL 2, 2018, TELECONFERENCE
WITH NUSCALE POWER, LLC

MEETING AGENDA

Time	Topic	Lead
1:00 – 1:10 pm	Meeting Introductions	NRC/NuScale
1:10 – 2:30 pm	Discussion of NuScale Closure Plan	NRC/NuScale
2:30 – 2:35 pm	Public Comments/Questions	Public
2:35 – 2:40 pm	Meeting Conclusion	NRC/NuScale

U.S. NUCLEAR REGULATORY COMMISSION
SUMMARY OF THE APRIL 2, 2018, TELECONFERENCE
WITH NUSCALE POWER, LLC

LIST OF ATTENDEES

NuScale Power, LLC

Jeremy Aartun
Kirsten McKay
Tom Ryan
Mohsin Khan (ARES)
Josh Parker
Evren Ulku
Marty Bryan
Mohsen Azadbakht
Nicholas Brown
Guilio Flores
Kyra Perkins
Andre L'Eplattenier
Ed Heald

U.S. Nuclear Regulatory Commission Staff

Omid Tabatabai
Clint Ashley
Anne-Marie Grady
Manas Chakravorty
Robert Roche
Pravin Patel
Jason Huang
Ata Istar
Sunwoo Park
Greg Cranston
Samuel Lee

Other Attendees

Sarah Fields (Uranium Watch)