



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

September 24, 2018

MEMORANDUM TO: Samuel S. Lee, Chief
Licensing Branch 1
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

FROM: Bruce M. Bavol, Project Manager /RA/
Licensing Branch 1
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

SUBJECT: SUMMARY OF THE JULY 10, 2018, CATEGORY 1, PUBLIC
TELECONFERENCE TO DISCUSS NUSCALE POWER LLC'S
RESPONSES TO REQUEST FOR ADDITIONAL INFORMATION
NOS. 8843, 9201, 9213, 9188, AND 9436

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public teleconference on July 10, 2018, to discuss the NuScale Power, LLC (NuScale) request for additional information responses pertaining to leak before break and reactor vessel materials. Participants included personnel from NuScale. No members of the general public participated via bridgeline during the meeting.

The public meeting notice dated June 27, 2018, can be found in the NRC's Agencywide Documents Access and Management Systems under Accession No. ML18178A439. This meeting notice was also posted on the NRC public website.

Enclosed is the meeting agenda (Enclosure 1), list of participants (Enclosures 2), and overview (Enclosure 3).

Docket No. 52-048

Enclosures:

1. Meeting Agenda
2. List of Attendees
3. Meeting Overview

cc w/encl.: DC NuScale Power, LLC Listserv

CONTACT: Bruce M. Bavol, NRO/DLSE
301-415-6715

SUBJECT: SUMMARY OF THE JULY 10, 2018, CATEGORY 1, PUBLIC TELECONFERENCE
 TO DISCUSS NUSCALE POWER LLC'S RESPONSES TO REQUEST FOR
 ADDITIONAL INFORMATION NOS. 8843, 9201, 9213, 9188, AND 9436
 DATED: September 24, 2018

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*By email

NRO-002

OFFICE	DLSE/LB1:PM	DLSE/LB1:LA	DEIA/MCB	DLSE/LB1:PM
NAME	BBavol	MMoore	MMitchell	BBavol (signed)
DATE	9/19/2018	9/19/2018	9/20/2018	9/24/2018

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U.S. NUCLEAR REGULATORY COMMISSION
CATEGORY 1 PUBLIC TELECONFERENCE TO DISCUSS
NUSCALE POWER, LLC'S REQUEST FOR ADDITIONAL INFORMATION RESPONSES –
LEAK-BEFORE-BREAK TECHNICAL SPECIFICATIONS AND (RAI NOS. 9188, 9436)
REACTOR VESSEL MATERIALS

MEETING AGENDA

July 10, 2018

The purpose of this teleconference was for the U.S. Nuclear Regulatory Commission (NRC) staff to discuss technical issues that need to be resolved associated with the NuScale Power, LLC (NuScale) Design Certification Application review in progress.

First Part of Meeting - Leak-Before-Break (LBB)/ Technical Specifications (TS) (Request for Additional Information (RAI) No. 8843, RAI No. 9201, and RAI No. 9213)

Second Part of Meeting - Chapter 5, "Reactor Vessel Materials" (RAI No. 9188, RAI No. 9436)

<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
1:00-1:05	Introductions and identification of topics	NRC
1:05-2:30	RAI discussions (LBB/TS)	NRC/NuScale
2:30-2:45	Questions from the public	Public
2:45-3:30	Break	----
3:30-4:15	RAI discussions (Ch5 - 9188, 9436)	NRC/NuScale
4:15-4:30	Questions from the public	Public

U.S. NUCLEAR REGULATORY COMMISSION
CATEGORY 1 PUBLIC TELECONFERENCE TO DISCUSS
NUSCALE POWER LLC'S DESIGN CERTIFICATION APPLICATION

LIST OF ATTENDEES

July 10, 2018

Name	Organization
Bruce Bavol	U.S. Nuclear Regulatory Commission (NRC)
Theodore Tjader	NRC
Chang Li	NRC
Samuel Lee	NRC
Matthew Mitchell	NRC
Victor Cusumano	NRC
Nicholas McMurray	NRC
Carrie Fosaaen	NuScale Power, LLC (NuScale)
Ross Snuggerud	NuScale
Sarah Bristol	NuScale
Heqin Xu	NuScale
Pei-Yuan Cheng	NuScale
Karl Gross	NuScale
John Fields	NuScale
Gary Becker	NuScale

U.S. NUCLEAR REGULATORY COMMISSION
CATEGORY 1 PUBLIC TELECONFERENCE TO DISCUSS
NUSCALE POWER LLC'S REQUEST FOR ADDITIONAL
INFORMATION RESPONSES

The purpose for this meeting was to inform NuScale Power, LLC (NuScale) of initial U.S. Nuclear Regulatory Commission (NRC) review findings on the issue of leak-before-break (LBB) application and to look for the path of resolution. NuScale design applies leak-before-break (LBB) to main steam (MSS) and feedwater (FWS) pipe breaks without limiting condition for operation (LCO) for the LBB leakage limit. The NRC staff feels that it introduces the safety concern of a potential violation of General Design Criteria (GDC) 4 without a satisfactory justification. This concern was identified in Request for Additional Information (RAI) No. 8843, RAI No. 9201 and RAI No. 9213.

First Part of Meeting

LBB/Technical Specifications (RAI Nos. 8843, RAI 9201, and RAI 9213)

NuScale responded that the MSS/FWS LBB leakage limit LCO is not needed, based on its determination that the limit does not meet the criteria in Title 10 of the *Code of Federal Regulations* (CFR), Section 50.36(c)(2). The NRC staff disagrees with NuScale on its "no LCO" determination based on NuScale's interpretation of the referenced NRC documents. In addition, the NRC staff believes that 10 CFR 50.36(c)(2) Criteria 2 is met and a LCO must be established.

The LBB discussion concluded with no foreseeable path to resolution. Staff will seek guidance from NRC management on the results of this discussion with NuScale.

Second Part of Meeting

Chapter 5 - Reactor Vessel Materials (RAI Nos. 9188 and 9436)

Regarding the NRC staff discussions with NuScale on responses to RAI Nos. 9188 and 9436. NuScale agreed to provide a supplement to incorporate the information related to the lock plates and threaded inserts into the design control document. Once verified these RAIs can be resolved / closed.

Enclosure 3