



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

April 3, 2018

MEMORANDUM TO: Samuel S. Lee, Chief
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

FROM: Bruce M. Bavol, Project Manager */RA/*
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF THE MARCH 27, 2018, CATEGORY 1, PUBLIC
TELECONFERENCE TO DISCUSS AMERICAN SOCIETY OF
MECHANICAL ENGINEERS CODE REQUIREMENTS
ASSOCIATED WITH THE NUSCALE POWER, LLC DESIGN
CERTIFICATION APPLICATION

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public teleconference on March 27, 2018, to discuss the NuScale Power, LLC (NuScale) design certification application's American Society of Mechanical Engineers Code requirements along with select request for additional information responses. Participants included personnel from NuScale. No members of the general public participated via bridgeline during the meeting.

The public meeting notice dated March 27, 2018, can be found in the NRC's Agencywide Documents Access and Management Systems under Accession No. ML18085A639. 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

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

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

SUBJECT: SUMMARY OF THE MARCH 27, 2018, CATEGORY 1, PUBLIC
 TELECONFERENCE TO DISCUSS AMERICAN SOCIETY OF MECHANICAL
 ENGINEERS CODE REQUIREMENTS ASSOCIATED WITH THE NUSCALE
 POWER, LLC DESIGN CERTIFICATION APPLICATION DATED: **4/03/2018**

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OFFICE	DNRL/LB1:PM	DNRL/LB1:LA	DEIA/MCB	DNRL/LB1:PM
NAME	BBavol	MBrown	MMitchell	BBavol (signed)
DATE	4/03/2018	4/03/2018	4/03/2018	4/03/2018

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U.S. NUCLEAR REGULATORY COMMISSION
CATEGORY 1 PUBLIC TELECONFERENCE TO DISCUSS
AMERICAN SOCIETY OF MECHANICAL ENGINEERS CODE REQUIREMENTS
ASSOCIATED WITH THE NUSCALE DESIGN CERTIFICATION APPLICATION

MEETING AGENDA

March 27, 2018

The purpose of this teleconference was for the U.S. Nuclear Regulatory Commission (NRC) staff to discuss application of American Society of Mechanical Engineers Code Requirements to the NuScale Power, LLC Design associated with the NuScale Design Certification Application currently under review. Also, to promote a common understanding of the technical issues associated with request for additional (RAI) responses:

Chapter 3, RAI 9183, Question No. 2

Chapter 5, RAI 9193, Question No. 1, 2, and 10

Chapter 6, RAI 9109, Questions No. 1 and 2

Time	Topic	Speaker
1:00 – 1:10 pm	Introductions and Identification of Topics	NRC
1:10 – 2:45 pm	Design Review Discussions	NRC / NuScale
2:45 – 3:00 pm	Questions from the Public	Public
3:00 pm	End of Meeting	

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

LIST OF ATTENDEES

March 27, 2018

Name	Organization
Bruce Bavol	U.S. Nuclear Regulatory Commission (NRC)
Matthew Mitchell	NRC
Yueh-Li (Renee) Li	NRC
Nick Hansing	NRC
John Honcharik	NRC
Nicholas McMurray	NRC
Stephen Cumblidge	NRC
Andrew Yeshnik	NRC
Cynthia Carpenter	NRC
Eric Reichelt	NRC
Samuel Lee	NRC
Carrie Fosaaen	NuScale Power, LLC (NuScale)
John Fields	NuScale
Jennie Wike	NuScale
Ben Heald	NuScale
Ed Heald	NuScale
Cindy Williams	NuScale
Gary Becker	NuScale
Matt Mallet	NuScale
Zack Houghton	NuScale
Marty Bryan	NuScale
Greg Myers	NuScale

U.S. NUCLEAR REGULATORY COMMISSION

OVERVIEW OF THE MARCH 27, 2018, PUBLIC MEETING TO DISCUSS

AMERICAN SOCIETY OF MECHANICAL ENGINEERS CODE REQUIREMENTS

ASSOCIATED WITH THE NUSCALE DESIGN CERTIFICATION APPLICATION

The purpose of this teleconference was for the U.S. Nuclear Regulatory Commission (NRC) staff to discuss application of American Society of Mechanical Engineers (ASME) Code Requirements to the NuScale Power, LLC (NuScale) Design associated with the NuScale Design Certification Application currently under review. Also, to promote a common understanding of the technical issues associated with request for additional information (RAI) 9183 (Chapter 3), RAI 9193/9103 (Chapter 5), and RAI 9109 (Chapter 6).

The NRC staff explained that this topic relates to the staff's ability to reach a conclusion regarding the NuScale design meeting General Design Criteria related to system and component integrity (e.g., GDC 14), as referenced in the aforementioned RAIs, and other essential aspects of the design (e.g., NuScale's requested exemption from performing Type A containment leak rate testing; assumptions regarding failure of the containment vessel and reactor vent and recirculation valve connections to the reactor vessel as being not credible within the NuScale design basis; etc.). The NRC staff indicated that it was principally seeking to understand how NuScale evaluated the material qualification, preservice inspection, in-service inspection, etc. requirements specified in the ASME Code and determined where they were adequate to achieve levels of system and component integrity and reliability appropriate to support the overall safety of the NuScale design, or where augmented treatment requirements (e.g., as discussed in Section 6.6.8 of the DCD) were warranted. The NRC staff, in developing the RAIs identified above, identified specific examples (e.g., piping ISI requirements, bolting ISI requirements, etc.) where augmentation of ASME Code requirements might be considered in light of the overall NuScale design.

At the end of the teleconference and in order to reach a better understanding of the general background for the NRC staff's questions associated with this issue, the NRC and NuScale staff resolved to follow up with additional public teleconferences to discuss specific technical issues associated with this topic.