

Another topic involving NuScale's responses to RAI Nos. 9032, 8993, and 9088 related to Chapter 7, "Instrumentation and Controls," was also discussed at a designated time on the agenda. A summary of this portion of the meeting was issued separately under ADAMS Accession No. ML17345A176.

A complete copy of NuScale's Design Certification Application is available on the NRC public Webpage at <https://www.nrc.gov/reactors/new-reactors/design-cert/nuscale/documents.html>.

Enclosure 1, "Summary of the December 5, 2017, Teleconference between the NRC staff and NuScale," provides a summary of the topics discussed during the teleconference.

The agenda and list of meeting attendees are provided in Enclosures 2 and 3, respectively. The meeting notice is available in ADAMS, under Accession No. ML17292B021.

Docket No. 52-048

Enclosures:

1. Meeting Summary
2. Agenda
3. Attendees

SUBJECT: SUMMARY OF DECEMBER 5, 2017, PUBLIC TELECONFERENCE WITH NUSCALE POWER, LLC, TO DISCUSS VARIOUS TOPICS RELATED TO CHAPTER 15, "TRANSIENT AND ACCIDENT ANALYSES," AND CHAPTER 2, "SITE CHARACTERISTICS AND SITE PARAMETERS," SECTION 2.5.4, "STABILITY OF SUBSURFACE MATERIALS AND FOUNDATIONS" OF THE NUSCALE DESIGN CERTIFICATION APPLICATION (DOCKET NO. 52-048)
 DATED: **3/12/2018**

DISTRIBUTION:

PUBLIC

Reading File

SLee, NRO

RKaras, NRO

LBauer, NRO

RFranovich, NRO

PChowdhury, NRO

FAkstulewicz, NRO

JSchmidt, NRO

RRoche-Rivera, NRO

WWang, NRO

RidsNroDnrl

RidsNroDnrlLb1

RidsAcrcAcnwMailCenter

RidsOgcMailCenter

NuScale DC Listserv

ADAMS Accession No.: ML18065B075

*via email

NRC-001

OFFICE	NRO/DNRL/LB1: PM	NRO/DNRL/LB1: PM	NRO/DNRL/LB1: LA
NAME	RFranovich	PChowdhury	MMoore
DATE	3/10/2018	3/12/2018	3/07/2018

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION
SUMMARY OF DECEMBER 5, 2017, PUBLIC TELECONFERENCE WITH
NUSCALE POWER, LLC

TOPIC 1:

NuScale Power, LLC's Response to Request for Additional Information No. 8771

The U.S. Nuclear Regulatory Commission (NRC) staff discussed NuScale Power, LLC's (NuScale or the applicant) response to Request for Additional Information (RAI) 8771 and asked why the response did not include some Final Safety Analysis Report (FSAR) plots that describe the system response during a return to power for the Decay Heat Removal System scenario where direct current (DC) power is available (sequence of events described in a new Table 15.0-16, untitled and yet to be provided). The plots, such as core average flow as a function of time, are relevant to the NRC staff's review and needed to inform a reasonable assurance finding for the return power analysis in FSAR, Section 15.0.6, "Evaluation of a Return to Power." Nuscale acknowledged the relevance of the plots and offered to provide them in a supplemental response to RAI 8771 within a month's time.

TOPIC 2:

NuScale Supplemental Response to RAI No. 9049 (ML17320B122)

Background: In a category 1 public meeting on October 31, 2017, the NRC staff discussed its feedback on NuScale's response to RAI 9049 (ADAMS Accession No. ML17318A059).

In the response to RAI 9049, Question 02.05.04-3, the applicant provided information on "Maximum Hydrostatic Pressure," "Effective Lateral Pressure," "Surcharge Loads," and "Total Maximum Lateral Soil Pressure," and the applicant made a reference to FSAR Section 3.8.4.3.3, "Earth Pressure (H)." This response includes a pyramid graph and a table, which were not included in the FSAR. The NRC staff emphasized the need for this information in the FSAR, and on November 16, 2017, the applicant submitted a supplemental response to RAI 9049, Questions 02.05.04-2 and 02.05.04-3 addressing the staff's needs (ADAMS Accession No. ML17320B122).

During the December 5, 2017, category 1 public meeting, the NRC staff provided the following feedback on the applicant's supplemental response of November 16, 2017:

1. Response to RAI 9049, Question 02.05.04-2 was acceptable and the NRC staff will confirm the FSAR markups in the next revision of the design certification application (DCA) when received.
2. The approach in the response to RAI 9049, Question 02.05.04-3 was acceptable to the extent that the applicant provided proposed markups in FSAR Section 3.8.4.3.3, and most of the details regarding static lateral earth pressure calculation are in the proposed

markups. However, the description of lateral earth pressure in Section 3.8.4.3.3 is still not complete because: (a) it lacks the summary of dynamic earth pressure, and only mentions that it is “developed from the SASSI2010 analyses of the standalone RXB and CRB models,” and (b) it did not provide information on total lateral earth pressure to be comprised of both static and dynamic pressures. In RAI 8971, Question 03.08.04-14 related to FSAR Section 3.8.4, “Other Seismic Category I Structures,” the NRC staff asked the applicant to provide an evaluation of the dynamic lateral earth pressure. NuScale’s response to this RAI Question is expected to address the NRC staff’s needs conveyed to NuScale via RAI 9049, Question 02.05.04-3. During the meeting, the staff emphasized the need for the applicant to include in the response to RAI 8971, Question 03.08.04-14, a description on dynamic and total lateral earth pressures, and associated COL information item(s), particularly, since RAI 9049, Question 02.05.04-3 asked for earth pressure induced by both static and seismic loadings, and asked the applicant to provide associated COL information items. The applicant agreed to address these needs. The applicant’s response to RAI 8971, Question 03.08.04-14, is scheduled for submission by April 30, 2018.

There were no comments by members of the public.

U.S. NUCLEAR REGULATORY COMMISSION

DECEMBER 5, 2017, PUBLIC TELECONFERENCE WITH NUSCALE POWER, LLC

AGENDA

Time	Topic	Speaker
1:00 pm – 1:50 pm	NuScale Power, LLC (NuScale) Response to Request for Additional Information (RAI) 8771	NRC/NuScale
1:50 pm – 2:00 pm	Public Comments	NRC/Public
2:00 pm – 2:20 pm	NuScale Response to RAI 9049	NRC/NuScale
2:20 pm – 2:30 pm	Public Comments	NRC/Public
2:30 pm – 2:50 pm	NuScale Response to RAIs 9032, 8993, and 9088	NRC/NuScale
2:50 pm – 3:00 pm	Public Comments	NRC/Public

LIST OF ATTENDEES

NuScale Power, LLC

Ben Bristol
Yousef Farawila
Darrell Gardner
Paul Infanger
Megan McCloskey
Dominic Napolitano
Kent Welter
Marty Bryan
Josh Parker
Wayne Massie
Jeff Kosky
Mohsen Azadbakht

U.S. Nuclear Regulatory Commission Staff

Rani Franovich
Prosanta Chowdhury
Rebecca Karas
Jeff Schmidt
Weijun Wang
Robert Riche-Rivera
Michael Dudek

Members of the Public

Ryan Welch