



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

April 30, 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 APRIL 4, 2018, CATEGORY 1, PUBLIC  
TELECONFERENCE TO DISCUSS NUSCALE POWER LLC'S  
STEAM GENERATOR REQUEST FOR ADDITIONAL  
INFORMATION RESPONSES

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public teleconference on April 4, 2018, to discuss the NuScale Power, LLC (NuScale) responses to steam generator request for additional information. Participants included personnel from NuScale. No members of the general public participated via bridgeline during the meeting.

The public meeting notice dated April 4, 2018, can be found in the NRC's Agencywide Documents Access and Management Systems (ADAMS) under Accession No. ML18082A051. 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/DNRL  
301-415-6715

SUBJECT: SUMMARY OF THE APRIL 4, 2018, CATEGORY 1, PUBLIC TELECONFERENCE  
TO DISCUSS NUSCALE'S STEAM GENERATOR REQUEST FOR ADDITIONAL  
INFORMATION RESPONSES DATED: 4/30/2018

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\*By email

**NRO-002**

|               |             |             |            |                 |
|---------------|-------------|-------------|------------|-----------------|
| <b>OFFICE</b> | DNRL/LB1:PM | DNRL/LB1:LA | DEIA/MCB   | DNRL/LB1:PM     |
| <b>NAME</b>   | BBavol      | MBrown*     | MMitchell* | BBavol (signed) |
| <b>DATE</b>   | 4/30/2018   | 4/19/2018   | 4/20/2018  | 4/30/2018       |

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

**MEETING AGENDA**

**April 4, 2018**

The purpose of this teleconference was for the U.S. Nuclear Regulatory Commission (NRC) staff to seek clarification on some of their responses to certain Steam Generator questions in requests for additional information (RAI) 9231 (Chapter 5) and RAI 9234 (Chapter 16). Also, to promote a common understanding of the technical issues associated with RAI responses:

RAI 9231 - Question 5.4.2.1-6

RAI 9234 - Question 16-38

RAI 9234 - Question 16-40

| <b>Time</b>    | <b>Topic</b>                               | <b>Speaker</b> |
|----------------|--|----------------|
| 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**

**April 4, 2018**

| <b>Name</b>             | <b>Organization</b>   |
|-------------------------|---|
| Bruce Bavol             | U.S. Nuclear Regulatory Commission (NRC)                          |
| Greg Makar              | NRC   |
| Paul Klein              | NRC   |
| Andrew Johnson          | NRC   |
| Leslie Terry            | NRC   |
| Yuken Wong              | NRC   |
| Anthony Markley         | NRC   |
| Craig Harbuck           | NRC   |
| Carrie Fosaaen          | NuScale Power, LLC (NuScale)                                      |
| John Fields             | NuScale   |
| Karl Gross              | NuScale   |
| Mark Shaver             | NuScale   |
| Matt Mallet             | NuScale   |
| Renee Martin            | NuScale   |
| Gery Wilkowski          | Engineering Mechanics Corporation of Columbus (Emc <sup>2</sup> ) |
| Elizabeth Kurth-Twombly | Emc <sup>2</sup>  |
| Ed Punch                | Emc <sup>2</sup>  |

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

The purpose of this teleconference was for the U.S. Nuclear Regulatory Commission (NRC) staff to promote a common understanding of the technical issues and seek clarification on some of NuScale's Power, LLC (NuScale's) responses to steam generator (SG) Request for Additional Information (RAI) 9231 (Chapter 5) and RAI 9234 (Chapter 16).

For RAI 9231, Question 05.04.02.01-6, the NRC staff requested clarification about the design and fabrication of SG tube support spacers described in proposed revisions to final safety analysis report (FSAR) Section 5.4.1.2 and Figure 5.4-6. The NRC staff was unclear on the number, location, fabrication, and inspection details, and whether the spacers were incorporated in all design evaluations. NuScale staff provided clarifying information about the spacers and confirmed that they are being incorporated in design evaluations, including the Comprehensive Vibration Assessment Program.

For RAI 9234, the NRC staff requested clarification on the responses to Questions 16-38 and 16-40 on, respectively, the accident induced leakage criterion in the generic technical specifications (GTS) and the inspection intervals proposed in the GTS. The NRC staff was unclear on the leakage values assumed in accident analyses. NuScale staff confirmed that the accident analysis assumed 300 gallons per day to include conservatism above the technical specification limit of 150 gallons per day primary-to-secondary leakage from both SG's. With respect to inspection interval, the NRC staff asked NuScale to clarify how the inspection intervals permitted by the proposed GTS could be supported if, for example, the initial units observe degradation in the first operating cycle that must be evaluated with no other operating experience. The NuScale staff explained their expectation that the programmatic requirements incorporated in the GTS would reduce the time to the next inspection, and that a shorter inspection interval in the GTS would not provide much benefit in managing early degradation.

The NRC staff also requested clarification on FSAR revisions proposed in the response to RAI 9231, Question 05.04.02.01-2.a, which appeared to be missing an entry for "integral feed plenum" in revised Table 5.2-4. The NuScale staff explained that the "feed plenum access port" serves as both the plenum and the port, and therefore the table information is accurate.

The call provided the clarification needed for the NRC staff to complete its evaluation of the responses to RAI 9231 and RAI 9234. No new actions were identified for the NuScale or NRC staff as a result of the call.