



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

February 26, 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 FEBRUARY 14, 2018, PUBLIC MEETING
WITH NUSCALE POWER, LLC, TO DISCUSS THE U.S.
NUCLEAR REGULATORY COMMISSION STAFF QUESTIONS
RELATED TO THE INITIAL TEST PROGRAM AND TECHNICAL
SPECIFICATIONS FOR INSTRUMENTATION AND CONTROLS

On February 14, 2018, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC (NuScale) held a public teleconference meeting to discuss the NRC staff's questions related to the Initial Test Program and technical specification surveillance requirements for the Module Protection System, which are described in Chapter 7, "Instrumentation and Controls," Section 14.2, "Initial Test Program," and Section 16.3.3, "Technical Specifications - Instrumentation," of Part 2 of the NuScale Design Certification Application (DCA); the technical specifications and associated bases are provided in Part 4 of the DCA. A complete copy of NuScale's DCA is available on the NRC public Webpage at <https://www.nrc.gov/reactors/new-reactors/design-cert/nuscale/documents.html>.

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 Agencywide Documents Access and Management System under Accession No. ML18039A100.

Docket No. 52-048

Enclosures:

1. Meeting Summary
2. Agenda
3. Attendees

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 DATED: **2/26/2018**

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NRC-001

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NAME	OTabatabai	MMoore	IJung	OTabatabai
DATE	2/20/2018	2/21/2018	2/26/2018	2/26/2018

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SUMMARY OF THE FEBRUARY 14, 2018, TELECONFERENCE
WITH NUSCALE POWER, LLC

NRC Staff's Questions Related to NuScale Power, LLC Initial Test Program

The U.S. Nuclear Regulatory Commission (NRC) staff asked the following questions related to NuScale's Initial Test Program (ITP).

1. Provide an overview of the NuScale ITP approach to testing and the graded approach to preoperational testing (see Section 14.2.3.2, "Graded Approach to Testing").
2. What is the NuScale approach for the individual test methods? For example, which ITP tests are required to be performed only from the main control room (e.g., visual observation), remote shutdown station, and/or local control panels?
3. Last bullet under objectives of Section 14.2.2, "Summary of Initial Test Program and Objectives," states:

complete and document the ITP testing required to satisfy preoperational and startup testing requirements and Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) testing requirements.

Does this imply that the ITP testing satisfies Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) testing requirements? Several ITP testing imply that ITAAC satisfies portions of ITP.

4. Does Table 14.2-109, "List of Test Abstracts," list all of systems in the NuScale design or just systems for the ITP?

Based on time constraints of the meeting, NuScale was not able to give full responses to all of the NRC's questions. Therefore, the NuScale and NRC staff agreed to hold a face-to-face public meeting to discuss NuScale's approach to ITP in more detail.

Technical Specification Surveillance Requirements for the Module Protection System

The NRC staff asked NuScale the following questions. NuScale advised the staff that detailed discussion and response to the staff's questions would require discussion of NuScale proprietary information. The NRC and NuScale staff agreed to hold a closed meeting on February 21, 2018 to discuss the NRC staff's questions.

NRC Staff Questions:

1. What combination of "Fatal", "Vital", or "Non-Vital" faults would render a given module protection system (MPS) channel (or more) inoperable?
2. What action(s) would NuScale take, from a Chapter 16 perspective, if an MPS channel is inoperable?

U.S. NUCLEAR REGULATORY COMMISSION
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WITH NUSCALE POWER, LLC

MEETING AGENDA

Time	Topic	Lead
1:30 – 1:35 pm	Meeting Introductions	NRC/NuScale
1:35 – 2:30 pm	Discussion of Staff's Questions Related to ITP	NRC/NuScale
2:30 – 3:30 pm	Discussion of Technical Specifications associated with Instrumentation and Controls	NRC/NuScale
3:30 – 3:45 pm	Public Comments/Questions	Public

U.S. NUCLEAR REGULATORY COMMISSION
SUMMARY OF THE FEBRUARY 14, 2018, TELECONFERENCE
WITH NUSCALE POWER, LLC

LIST OF ATTENDEES

NuScale Power, LLC

Brian Arnholt
Rufino Ayala
Carl Dumsday
Edan Engstrom
Karl Gross
Chris Maxwell
Steve Pope

U.S. Nuclear Regulatory Commission Staff

Luis Betancourt
Dinesh Taneja
Joseph Ashcraft
Ashley Ferguson
Aaron Armstrong
Paul Prescott
Craig Harbuck
Theodore Tjader
Taylor Lamb
Anthony Markley
Omid Tabatabai

Other Attendees

Pete Gaillard, TerraPower
Yu-Chih Ko, TerraPower
Noor Ullah, TerraPower
Reid Tanaka, TerraPower
Don Statile, TerraPower