



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

May 20, 2019

Mr. Thomas Bergman  
Vice President, Regulatory Affairs  
NuScale Power, LLC  
1100 NE Circle Boulevard, Suite 200  
Corvallis, OR 97330

SUBJECT: NUSCALE POWER, LLC, DESIGN CERTIFICATION APPLICATION - SAFETY EVALUATION WITH OPEN ITEMS FOR CHAPTER 3, "DESIGN OF STRUCTURES, SYSTEMS, COMPONENTS AND EQUIPMENT"

Dear Mr. Bergman:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with open items (OIs) for each chapter of the NuScale Power, LLC (NuScale) Design Certification Application submitted by NuScale on January 6, 2017<sup>1</sup>.

The staff's SE with OIs for Chapter 3, "Design of Structures, Systems, Components and Equipment," is being provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support an upcoming meeting of the ACRS Subcommittee, scheduled to be held on June 18, 2019. Please note that in the enclosed SE, in addition to OIs, Section 3.11, "Environmental Qualification of Mechanical and Electrical Equipment," contains issues without a mutually understood and clearly defined path toward resolution related to environmental qualification of electrical equipment. The information needed to complete Section 3.11 evaluation was recently provided as part of the topical report, TR-0915-17565, "Accident Source Term Methodology," Revision 3 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML19112A171), which was submitted on April 21, 2019. This TR is currently undergoing an acceptance review. Therefore, Section 3.11 of the enclosed SE will be conducted in parallel with the review of the TR, and a complete Section 3.11 SE will be documented in the Phase 4 Chapter 3 SE.

The enclosed SE with OIs is being provided to NuScale for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations*, Section 2.390, "Public Inspections, Exemptions, Requests for Withholding." The NRC will withhold the enclosed SE from public disclosure for ten business days from the date of this letter to allow you the opportunity to identify any proprietary information or factual errors. If within that ten-day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosure will be made available for public viewing through the Publicly Available Records component of NRC's ADAMS and placed on the NRC's public webpage for this application.

Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure, this document is "DECONTROLLED."

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<sup>1</sup> The Design Certification Application was submitted via a transmittal letter dated December 31, 2016.

T. Bergman

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If you have any questions or comments concerning this matter, I can be reached at (301) 415-5861 or via e-mail address at [Marieliz.VeraAmadiz@nrc.gov](mailto:Marieliz.VeraAmadiz@nrc.gov).

Sincerely,

***/RA/***

Marieliz Vera-Amadiz, Project Manager  
Licensing Branch 1  
Division of Licensing, Siting  
and Environmental Analysis  
Office of New Reactors

Docket No. 52-048

Enclosure:  
As stated

cc: w/o encl. See next page

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EVALUATION WITH OPEN ITEMS FOR CHAPTER 3, "DESIGN OF  
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DATED: May 20, 2019

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