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

December 19, 2019

Mr. Zackary W. Rad
Director, Regulatory Affairs
NuScale Power, LLC
1100 NE Circle Boulevard, Suite 200
Corvallis, OR 97330

SUBJECT: FINAL SAFETY EVALUATION FOR NUSCALE POWER, LLC TOPICAL REPORT TR-0516-49417, REVISION 1, "EVALUATION METHODOLOGY FOR STABILITY ANALYSIS OF THE NUSCALE POWER MODULE"

Dear Mr. Rad:

By letter dated July 31, 2016, NuScale Power, LLC (NuScale), submitted Topical Report (TR) TR-0516-49417, "Evaluation Methodology for Stability Analysis of the NuScale Power Module," Revision 0, to the U.S. Nuclear Regulatory Commission (NRC) staff for review and approval in support of the application for the design certification of NuScale's small modular reactor (SMR). By letters dated September 17, 2019, and November 22, 2019, NuScale submitted TR-0915-17564, Revision 1, which incorporated changes from requests for additional information responses and corrects a minor error to the TR, respectively.

The NRC staff has found that TR-0516-49417, Revision 1, is acceptable for referencing in licensing applications for the NuScale SMR design to the extent specified and under the conditions and limitations delineated in the enclosed safety evaluation report (SER). The SER defines the basis for acceptance of the TR.

The NRC staff requests that NuScale publish the applicable version(s) of the SER listed above within three months of receipt of this letter. The accepted version of the TR shall incorporate this letter and the enclosed SER and add "-A" (designated accepted) following the report identification number.

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

CONTACT: Bruce M. Bovol, NRR/DNRL
301-415-6715

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If the NRC staff's criteria or regulations change, such that the conclusion that the SER is acceptable is invalidated, NuScale and/or the applicant referencing the SER will be expected to revise and resubmit its respective documentation, or submit justification for continued applicability of the SER without revision of the respective documentation.

Prior to placing the public version of this document in the publicly available records component of NRC's Agencywide Documents and Access Management System (ADAMS), the NRC staff requests that NuScale perform a final review of the SER for proprietary or security related information not previously identified. If you believe that any additional information meets the criteria, please identify such information line by line and define the basis pursuant to the criteria established in Title 10 of the *Code of Federal Regulations*, Part 2, Section 3.90, "Public inspections, exemptions, requests for withholding."

If after a ten-day period, if you do not request that all or portions of the SER be withheld from public disclosure, the SER will be made available for public inspection through the publicly available records component of NRC's ADAMS.

If you have any questions or comments concerning this matter, please contact Bruce Bavol at 301-415-6715 or via e-mail address at Bruce.Bavol@nrc.gov.

Sincerely,

/RA/ Bob Caldwell for

Anna Bradford, Director
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

Docket No. 52-048

Enclosures:

1. TR-0516-49417 SER (Non-Proprietary)
2. TR-0516-49417 SER (Proprietary)

cc: DC NuScale Power, LLC Listserv (w/o Enclosure 2)

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DATED: DECEMBER 19, 2019

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