May 4, 2017

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

SUBJECT: ACCEPTANCE LETTER FOR THE REVIEW OF TOPICAL REPORT TR-0716-50350, "ROD EJECTION ACCIDENT METHODOLOGY," REVISION 0 (052-048)

Dear Mr. Bergman:

By letter dated December 30, 2016, NuScale Power, LLC (NuScale), submitted Topical Report (TR) 0716-50350, "Rod Ejection Accident Methodology," Revision 0" (Agencywide Document Access and Management System (ADAMS) Accession No. ML16365A241), to the U.S. Nuclear Regulatory Commission (NRC) staff for review. In the December 30, 2016, letter, NuScale requested NRC to review and approve NuScale's use of the methodology described in the TR for design-basis rod ejection accident (REA) analyses in the NuScale Power Module, as well as the use of the code SIMULATE-3K to determine the transient neutronic response of the NuScale Power Module during an REA.

The purpose of this letter is to inform you that TR-0716-50350 provides sufficient technical information for the NRC staff to conduct a detailed technical review. If the NRC staff needs additional information to complete its review, we will issue formal requests for additional information (RAI) by separate correspondence.

The NRC staff has begun its detailed review of the TR and expects to issue RAIs between now and December 14, 2017. If NuScale satisfactorily responds to the RAIs and resolves issues identified during the review process in a timely manner, the NRC staff expects to issue the final safety evaluation report (SER) by November 19, 2018.

Section 170.21 of Title 10 of the *Code of Federal Regulations* requires that TRs are subject to fees based on the full cost of the review. You did not request a fee waiver; therefore, NRC staff hours will be billed accordingly.

The NRC staff estimates that conducting a detailed review of this TR will require approximately 900 staff-hours, including project management time. This estimate is based on RAIs with a 60-day NuScale response time, two meetings between NRC and NuScale to discuss the TR review, one audit, and one presentation to the NRC's advisory committee on reactor safeguards (ACRS). This estimate could change during the detailed review if additional rounds of RAIs are needed or the ACRS declines to review the TR. NuScale will be billed at the current NRC hourly billable rate for the staff's time to conduct this detailed review.

By email dated April 12, 2017, Ms. Stephanie Seely, Licensing Supervisor, agreed to the NRC staff's estimated review hours and proposed review schedule (ADAMS Accession No. ML17103A208).

If you have questions, please contact the Project Manager, Rani Franovich at (301) 415-7334 or Rani.Franovich@nrc.gov.

Sincerely,

**/RA/**

Samuel Lee, Chief
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

Project No.: PROJ0769

cc: NuScale DC ListServ

ACCEPTANCE LETTER FOR THE REVIEW OF TOPICAL REPORT TR-0716-50350, "ROD EJECTION ACCIDENT METHODOLOGY," REVISION 0 (PROJ0769)

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**ADAMS Accession No: ML17103A261** **NRO-002**

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| **DATE** | 04/14/2017 | 04/13/2017 | 05/01 /2017 | 04/4/2017 |
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| **NAME** | CVan Wert | RKaras | SLee | |
| **DATE** | 04/24/2017 | 04/24/2017 | 04/4/2017 | |

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