

November 24, 2017

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

SUBJECT: FINAL SAFETY EVALUATION FOR NUSCALE POWER, LLC TOPICAL  
REPORT-0116-20825, REVISION 1, "APPLICABILITY OF AREVA FUEL  
METHODOLOGY FOR THE NUSCALE DESIGN"

Dear Mr. Bergman:

By letter dated March 30, 2016, NuScale Power, LLC (NuScale) submitted Topical Report (TR)-0116-20825, Revision 0, "Applicability of AREVA Fuel Methodology for the NuScale Design" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16095A244) to the staff of the U.S. Nuclear Regulatory Commission (NRC). NuScale requested the NRC staff to review and approve the assumptions, codes, and methodologies presented in TR-0116-20825 for applying AREVA codes and fuel methodology to the NuScale design. By letter dated June 3, 2016, NuScale requested the NRC to suspend its acceptance review (ADAMS Accession No. ML16155A449). The purpose of this suspension was for NuScale to incorporate comments received from the NRC staff. By letter dated July 1, 2016, NuScale submitted TR-0116-20825, Revision 1, "Applicability of AREVA Fuel Methodology for the NuScale Design" (ADAMS Accession No. ML16187A016) and requested the NRC to review and approve the assumptions, codes, and methodologies presented TR-0116-20825, Revision 1, for applying AREVA codes and fuel methodology to the NuScale design.

The NRC staff has found that the TR-0116-20825, Revision 1, "Applicability of AREVA Fuel Methodology for the NuScale Design," is acceptable for referencing in licensing applications for the NuScale small modular reactor 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 staff requests that NuScale publish the applicable version(s) of the SER listed above within one month 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, NRO/DNRL  
301-415-6715

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If the NRC staff's criteria or regulations change, so that its 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 ADAMS, the 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 390.

If after a 10-day period, 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](mailto:Bruce.Bavol@nrc.gov).

Sincerely,

***/RA Anna Bradford Acting for/***

Frank M. Akstulewicz, Director  
Division of New Reactor Licensing  
Office of New Reactors

Project No. 0769

Enclosures: Enclosure 1 (Non-Proprietary)  
Enclosure 2 (Proprietary)

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

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ADAMS Accession Nos.:

Pkg: ML17299A531

Letter: ML17298A692

Enclosure No. 1: ML17298B297

Enclosure No. 2: ML17299A242

\*via email

NRO-002

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