



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

December 4, 2018

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-  
0915-17564, REVISION 2, "SUBCHANNEL ANALYSIS METHODOLOGY"

Dear Mr. Bergman:

By letter dated February 15, 2017, NuScale Power, LLC (NuScale), submitted Topical Report (TR)-0915-17564-P, "Subchannel Analysis Methodology," Revision 1, 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. By letter dated October 31, 2018, NuScale submitted TR-0915-17564, Revision 2, "Subchannel Analysis Methodology," which incorporate changes from requests for additional information responses.

The NRC staff has found that TR-0915-17564, Revision 2, 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 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  
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the enclosure, this document is  
"DECONTROLLED."

CONTACT: Bruce M. Bavo!, NRO/DLSE  
301-415-6715

T. Bergman

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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 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 390, "Public inspections, exemptions, requests for withholding."

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 Baval at 301-415-6715 or via e-mail address at [Bruce.Baval@nrc.gov](mailto:Bruce.Baval@nrc.gov).

Sincerely,

***/RA Michael McCoppin Acting for/***

Robert Taylor, Director  
Division of Licensing, Siting,  
and Environmental Analysis  
Office of New Reactors

Docket No. 52-048

Enclosures:

1. TR-0915-17564 SER (Non-Proprietary)
2. TR-0915-17564I SER (Proprietary)

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

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