



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

June 29, 2018

Dr. Michael L. Corradini, Chairman
Advisory Committee on Reactor Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: SAFETY EVALUATION OF THE NUSCALE POWER, LLC, TOPICAL REPORT TR-0616-48793, REVISION 0, "NUCLEAR ANALYSIS CODES AND METHODS QUALIFICATION," AND TR-0116-21012, REVISION 1, "NUSCALE POWER CRITICAL HEAT FLUX CORRELATIONS"

Dear Dr. Corradini:

In its letter dated June 15, 2018, the Advisory Committee on Reactor Safeguards (ACRS) reported on its safety review of the U.S. Regulatory Commission (NRC) staff's safety evaluation report for the NuScale Power, LLC (NuScale), Licensing Topical Report (TR)-0616-48793, Revision 0, "Nuclear Analysis Codes and Methods Qualification," and TR-0116-21012, Revision 1, "NuScale Power Critical Heat Flux Correlations" (Agencywide Documents Access and Management System Accession No. ML18166A303). The ACRS concluded that TR-0616-48793 provides an acceptable methodology for the design and steady-state analysis of the NuScale reactor core, subject to the NRC staff's limitations and conditions. The ACRS also concluded that TR-0116-21012 provides an acceptable basis for use of the NuScale critical heat flux correlations, NSP2 and NSP4, and associated critical heat flux ratio limits, within their range of applicability, subject to the NRC staff's limitations.

The NRC staff appreciates the ACRS's review and recommendation. The staff plans to issue the safety evaluation report by mid-October 2018.

We look forward to working with the ACRS in the future.

Sincerely,

/RA Vonna Ordaz Acting for/

Frederick D. Brown, Director
Office of New Reactors

Docket No. 52-048

cc: Chairman Svinicki
Commissioner Baran
Commissioner Burns
Commissioner Caputo
Commissioner Wright
SECY

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 QUALIFICATION," AND TR-0116-21012, REVISION 1, "NUSCALE POWER
 CRITICAL HEAT FLUX CORRELATIONS" DATE: June 29, 2018

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