



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

August 08, 2022

MEMORANDUM TO: Scott W. Moore, Executive Director  
Advisory Committee on Reactor Safeguards

FROM: Brian W. Smith, Director */RA/*  
Division of New and Renewed Licenses  
Office of Nuclear Reactor Regulation

SUBJECT: SAFETY EVALUATION FOR NUSCALE POWER, LLC, TOPICAL  
REPORT "METHODOLOGY FOR ESTABLISHING THE  
TECHNICAL BASIS FOR PLUME EXPOSURE EMERGENCY  
PLANNING ZONES AT NUSCALE SMALL MODULAR REACTOR  
PLANT SITES," TR-0915-17772, REVISION 3

By letter dated June 10, 2022, NuScale Power, LLC (NuScale), submitted Revision 3 of licensing Topical Report (TR)-0915-17772, titled "Methodology for Establishing the Technical Basis for Plume Exposure Emergency Planning Zones at NuScale Small Modular Reactor Plant Sites" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML22161B011 [proprietary]; ML22161B010 [non-proprietary]), to the U.S. Nuclear Regulatory Commission staff for review and approval. This TR was prepared for the purpose of being referenced in future applications for a construction permit or a combined license for the NuScale small modular reactor design, including the standard plant design (Docket 52-048) and variations and derivatives. Revision 3 of the TR revises the methodology in Revision 2, titled "Methodology for Establishing the Technical Basis for Plume Exposure Emergency Planning Zones" (ML20217L423 [proprietary]; ML20217L422 [non-proprietary]).

The NRC staff's safety evaluation (SE) can be found in ADAMS under ML22175A002 [proprietary]. The SE will support a meeting of the Sub-Committee of the Advisory Committee on Reactor Safeguards (ACRS) on September 8, 2022.

The NRC staff requests that the ACRS withhold the proprietary version of the SE from public disclosure. The non-proprietary version will be issued and made publicly available in ten business days after the staff completes its verification of any additional proprietary information NuScale may identify.

Docket No.: 99902043

cc: NuScale DC ListServ

CONTACT: Alina Schiller, NRR/DNRL  
301-415-8177

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"METHODOLOGY FOR ESTABLISHING THE TECHNICAL BASIS FOR PLUME  
EXPOSURE EMERGENCY PLANNING ZONES AT NUSCALE SMALL  
MODULAR REACTOR PLANT SITES," TR-0915-17772, REVISION 3  
DATED: AUGUST 08, 2022

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**ADAMS Accession No.:****PKG: ML22118A759****MEMO: ML22209A058****\*via e-mail safety evaluation only NRR-106**

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