



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

April 2, 2021

Ms. Carrie A. Fosaaen
Director, Regulatory Affairs
NuScale Power, LLC
1100 Circle Boulevard, Suite 200
Corvallis, OR 97330

SUBJECT: REVIEW SCHEDULE FOR THE NUSCALE POWER, LLC, TOPICAL REPORT
"METHODOLOGY FOR ESTABLISHING THE TECHNICAL BASIS FOR PLUME
EXPOSURE EMERGENCY PLANNING ZONES," TR-0915-17772, REVISION 2
(PROJ0769)

Dear Ms. Fosaaen:

By letter dated August 4, 2020, NuScale Power, LLC, (NuScale) submitted Topical Report TR-0915-17772, "Methodology for Establishing the Technical Basis for Plume Exposure Emergency Planning Zones," Revision 2 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20217L422) for the U.S. Nuclear Regulatory Commission (NRC) staff's review. By way of this Licensing Topical Report (LTR), NuScale is seeking NRC staff's approval of the use of a methodology for establishing the technical basis for plume exposure emergency planning zones (EPZ).

The purpose of this letter is to provide you a revised schedule for the NRC staff's review of your LTR, as well as a new estimated level of effort for the staff to complete its detailed technical review. If the NRC staff needs additional information to complete its review, you will receive requests for additional information (RAI) by separate correspondence.

On December 1, 2020, the NRC staff shared with NuScale a proprietary version of their concerns on Revision 2 of the LTR and provided clarification via a teleconference. The technical review of the LTR was paused until NuScale responded to the NRC staff concerns. On January 12, 2021, the NRC staff held a public meeting and discussed in detail their concerns on Revision 2 of the LTR (meeting summary and slides are in ADAMS Package Accession No. ML21006A176). At this meeting, the NRC staff also shared several observations regarding the methodology's applicability for non-light-water reactors (non-LWRs). NuScale indicated they understood the concerns and observations, and would engage with the NRC staff for further discussion. However, on February 19, 2021, NuScale requested via an email (ADAMS Accession No. ML21053A266) that the NRC staff should resume its technical review and issue RAIs. NuScale additionally stated that they would revise the LTR once the scope of the staff's RAIs were received and understood. On March 1, 2021, the NRC staff resumed their technical review of the LTR.

The NRC staff also notes that in Revision 2, NuScale has changed the title of the LTR to "Methodology for Establishing the Technical Basis for Plume Exposure Emergency Planning Zones," from "Methodology for Establishing the Technical Basis for Plume Exposure Emergency Planning Zones at NuScale Small Modular Reactor Plant Sites" in Revision 0 (ADAMS Accession No. ML15356A842) and Revision 1 (ADAMS Accession No. ML18071A354). In the Executive Summary of the LTR, Revision 2, NuScale stated, in part, that the methodology is intended for use by all advanced nuclear reactor designs. The staff believes reviewing the LTR's applicability for advanced reactors, particularly non-LWRs, will require additional time and resources. The NRC staff estimates that the detailed review of your LTR now requires an additional 3,000 staff-hours, including project management time, for which NuScale will be billed. This estimate is based on the need for additional RAIs, with a 30-day NuScale response time, as well as approximately three meetings between the NRC staff and NuScale staff to discuss the LTR review, one regulatory audit, and presentations to the NRC's Advisory Committee on Reactor Safeguards. This estimate could change as the NRC staff conducts the detailed review or if additional rounds of RAIs are needed.

The NRC staff expects that the new estimate for the staff's detailed review of your LTR will take 8 additional months to issue the SER with no open items (i.e., by December 31, 2021). NuScale was informed of the above proposed schedule and resources in a phone call on April 1, 2021.

If you have any questions regarding this matter, please contact Alina Schiller, Project Manager, at (301) 415-8177 or alina.schiller@nrc.gov.

Sincerely,

Michael I. Dudek, Chief
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

Project No.: PROJ0769

cc: NuScale DC ListServ

SUBJECT: REVIEW SCHEDULE FOR THE NUSCALE POWER, LLC, TOPICAL REPORT
 "METHODOLOGY FOR ESTABLISHING THE TECHNICAL BASIS FOR PLUME
 EXPOSURE EMERGENCY PLANNING ZONES," TR-0915-17772, REVISION 2
 (PROJ0769) DATED: APRIL 2, 2021

DISTRIBUTION:

PUBLIC	MHayes, NRR
NRLB R/F	MDudek, NRR
GCranston, NRR	JSegala, NRR
PChowdhury, NRR	ACosta, NRR
RCaldwell, NRR	JQuichocho, NSIR
ABradford, NRR	KBrock, NSIR
MFranovich, NRR	RKahler, NSIR
MShams, NRR	DBarss, NSIR
SGreen, NRR	RHoffman, NSIR
MPohida, NRR	RidsNrrDnrl
ASchiller, NRR	RidsNrrDnrlNrlb
EDickson, NRR	RidsAcrcMailCenter
KHsueh, NRR	RidsOgcMailCenter
SRosenberg, NRR	NuScale DC Listserv
IJung, NRR	

ADAMS Accession No.: ML21084A123***via email****NRR-106**

OFFICE	DNRL/NRLB:PM*	DNRL/NRLB:LA*	DNRL/NRLB:PM*	DNRL/NRLB:BC
NAME	PChowdhury	SGreen	PChowdhury	MDudek
DATE	03/25/2021	03/25/2021	04/02/2021	04/02/2021

OFFICIAL RECORD COPY