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

September 22, 2023

Ms. Carrie Fosaaen
Vice President, Regulatory Affairs
NuScale Power, LLC
1100 NE Circle Boulevard, Suite 200
Corvallis, OR 97330

SUBJECT: NUSCALE US460 STANDARD DESIGN APPROVAL APPLICATION REVIEW RESOURCE ESTIMATE (DOCKET NOS. 05200050 and 99902078)

Dear Ms. Fosaaen:

This letter provides the U.S. Nuclear Regulatory Commission (NRC) staff's resource estimates for the review of the NuScale Power, LLC (NuScale) standard design approval application (SDAA) for a US460 Small Modular Reactor. NuScale submitted the SDAA pursuant to the requirements of Title 10 of the *Code of Federal Regulations*, Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants."

By letter dated July 31, 2023 (available in the NRC Agencywide Documents Access and Management System (ADAMS) Accession No. ML23198A163), the staff informed you that your staged SDAA, the last submittal of which was provided on December 31, 2022 (ML22339A066), as supplemented by your letters dated July 14, 2023 (ML23195A092), and July 17, 2023 (ML23198A244), is acceptable for docketing. In the July 31, 2023, letter, the staff also provided a four phase, 24-month review schedule and committed to provide resource estimates within 60 days of the issuance of the letter. Accordingly, the staff has completed its evaluation of the resource needs and estimates the SDAA review will require approximately 50,000 staff hours and $650,000 for contractor support. This resource estimate does not include licensing topical report (LTR) review; those estimates are provided separately for each LTR submitted to support the SDAA.

The factors considered for establishing the review schedule described in the July 31, 2023, letter is applicable to the evaluation of this resources estimate, as well. Completing the NuScale review within the resources and schedules outlined in this and the July 31, 2023, letter will require NuScale to provide timely responses to staff questions, especially those involving High Impact Technical Issues and the four LTRs that are reviewed concurrently with the SDAA.

If you have any questions, I can be reached at (301) 415-8013 or by email at Getachew.Tesfaye@ nrc.gov.

Sincerely,

/RA/

Getachew Tesfaye, Senior Project Manager
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

Docket No: 05200050

cc: DC NuScale Power LLC Listserv

SUBJECT: NUSCALE US460 STANDARD DESIGN APPROVAL APPLICATION REVIEW RESOURCE ESTIMATE (DOCKET NOS. 05200050 and 99902078) DATED: SEPTEMBER 22, 2023

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