



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

June 20, 2023

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

SUBJECT: AUDIT STATUS - THE STAFF REVIEW OF THE NUSCALE POWER, LLC
STANDARD DESIGN APPROVAL APPLICATION – NUSCALE US460

Dear Ms. Fosaaen:

By letter dated December 31, 2022 (electronically submitted on January 1, 2023), NuScale Power, LLC (NuScale) transmitted the last part of the required staged submittal of the Standard Design Approval application. The submitted documents in their entirety can be found at Agencywide Documents Access and Management System (ADAMS) Accession No. ML22339A066 and ML23131A300. As indicated in the U.S. Nuclear Regulatory Commission staff's acceptance review letter (ML23058A160), the staff began conducting an audit on March 27, 2023 (ML23067A300). The audit is intended to achieve efficiencies in the safety review by allowing the staff to review and discuss supporting material with the objective of improving communication and understanding of complex technical topics. The purpose of this letter is to provide current status of the ongoing audit.

To date, the staff has presented 329 document requests and items for explanations in the audit. Of these, 135 items have been resolved in the audit, 81 items provided by NuScale are under review by the staff and 102 items are waiting for NuScale to provide in the audit. The staff has communicated to NuScale that the following items related to the Final Safety Analysis Report (FSAR) and the Loss of Coolant Accident (LOCA) Licensing Topical Report (LTR) resolved in the audit need to be submitted on the docket:

1. 3.9.4-2 - information related to FSAR Section 3.9.4-2, "Applicable Control Rod Drive System Design Specifications,"
2. 5.2.1.1-3 - information related to FSAR Section 5.2.1.1, "Compliance with 10 CFR 50.55a,"
3. 5.4.3.3.4-1 - information related to FSAR Section 5.4.3.3.4, "Thermal-Hydraulic Performance,"
4. 6.2-3 - information related to FSAR Section 6.2, "Containment Systems,"
5. 9.5.1.2.4-1 - information related to FSAR Section 9.5.1.2.4, "Plant Arrangement,"
6. 10.3-1 - information related to FSAR Section 10.3, "Main Steam System,"
7. 12-1 - information related to FSAR Chapter 12, "Radiation Protection"
8. 12.2.1.8-1 - information related to FSAR Section 12.2.1.8, "Reactor Pool Water,"
9. 12.2-2 - information related to FSAR Section 12.2, "Radiation Sources,"

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- 10.15.0.3.7-1 - information related to FSAR Section 15.0.3.7, "Consequence Analyses of Design-Basis Source Terms,"
- 11.19.1-19 - information related to FSAR Section 19.1, "Probabilistic Risk Assessment,"
- 12.19.1-24 - information related to FSAR Section 19.1, "Probabilistic Risk Assessment,"
- 13.19.2.6-1 - information related to FSAR Section 19.2.6, "Consideration of Potential Design Improvements Under 10 CFR 50.34(f),"
- 14.LOCA.LTR-3 - information related to LOCA LTR.

The information requested under each identifying number will be described in detail when NuScale submits the information for docketing as discussed in the audit.

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

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DATED: JUNE 20, 2023

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NRR-106

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DATE	05/26/2023	05/31/2023
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