



NUCLEAR REGULATORY COMMISSION

[NRC-2023-0027]

NuScale Power, LLC; NuScale US460 Small Modular Reactor; Standard Design Approval

AGENCY: Nuclear Regulatory Commission.

ACTION: Notice; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) has issued a standard design approval (SDA) to NuScale Power, LLC (NuScale) for the NuScale US460 small modular reactor (SMR) standard design. The SDA allows the NuScale US460 SMR standard design to be referenced in an application for a construction permit or operating license, or an application for a combined license or manufacturing license under NRC regulations.

DATES: The SDA was issued on May 29, 2025.

ADDRESSES: Please refer to NRC-2023-0027 when contacting the NRC about the availability of information regarding this document. You may obtain publicly available information related to this document using any of the following methods:

- **Federal Rulemaking Website:** Go to <https://www.regulations.gov> and search for Docket ID NRC-2023-0027. Address questions about Docket IDs in Regulations.gov to Bridget Curran; telephone: 301-415-1003; email: Bridget.Curran@nrc.gov. For technical questions, contact the individual listed in the “For Further Information Contact” section of this document.

- **NRC’s Agencywide Documents Access and Management System (ADAMS):** You may obtain publicly available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room reference staff at 1-800-397-4209, at 301-415-4737, or by email to PDR.Resource@nrc.gov. The NuScale Power Standard

Design, Standard Design Approval is available in ADAMS under Accession No.

ML25129A004.

- **NRC's PDR:** The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Getachew Tesfaye, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington DC 20555-0001; telephone: 301-415-8013; email: Getachew.Tesfaye@nrc.gov.

SUPPLEMENTARY INFORMATION: The NRC has issued an SDA to NuScale, for the US460 NuScale SMR standard design under subpart E, "Standard Design Approvals," of title 10 of the *Code of Federal Regulations* (10 CFR) part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." This SDA allows the NuScale US460 SMR standard design to be referenced in an application for a construction permit or operating license under 10 CFR part 50, "Domestic Licensing of Production and Utilization Facilities," or an application for a combined license or manufacturing license under 10 CFR part 52. In addition, the NRC has issued the final safety evaluation report (FSER) (ADAMS Package Accession No. ML25086A073) that supports issuance of the SDA.

Issuance of this SDA signifies completion of the NRC staff's technical review of the NuScale US460 SMR design. The NRC staff performed its technical review of the NuScale US460 SMR design control document in accordance with the standards set forth in 10 CFR 52.139, "Standards for Review of Applications."

On the basis of its evaluation and independent analyses, as described in the FSER, the NRC staff concludes that NuScale's application for standard design approval meets the applicable portions of 10 CFR 52.137, "Content of Applications; Technical Information," and the review standards identified in 10 CFR 52.139.

Copies of the NuScale US460 SMR FSEER and SDA have been placed in the NRC's PDR. The PDR is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. ET, Monday through Friday, except Federal holidays.

Dated: May 29, 2025.

For the Nuclear Regulatory Commission.

Michele Sampson,

Director,

Division of New and Renewed Licenses,

Office of Nuclear Reactor Regulation.

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