

July 13, 2020

Docket No. 52-048

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852-2738

**SUBJECT:** NuScale Power, LLC Request for Standard Design Approval based on the NuScale Standard Plant Design Certification Application

**REFERENCES:**

1. NuScale Letter to NRC, "NuScale Power, LLC Submittal of the NuScale Standard Plant Design Certification Application (NRC Project No. 0769)," dated December 31, 2016 (ML17013A229)
2. NuScale Letter to NRC, "NuScale Power, LLC Submittal of Planned Standard Design Approval Application Content," dated February 24, 2020 (ML20055E565)

NuScale Power, LLC (NuScale) submitted its Standard Plant Design Certification Application (DCA), in Reference 1, in accordance with the requirements of Subpart B, "Standard Design Certifications," of 10 CFR 52. In Reference 2, the NRC was notified of NuScale's intent to request a Standard Design Approval (SDA) based on the DCA design.

The purpose of this letter is to request approval of the NuScale design as described in the NuScale DCA, under Subpart E, "Standard Design Approvals," of 10 CFR Part 52, upon completion of NRC staff's review and issuance of the Final Safety Evaluation Report. NuScale also requests that the NRC publish its SDA determination and provide a copy of the SDA by letter to NuScale when it becomes effective. Issuance of the SDA will document completion of the staff's and the Advisory Committee for Reactor Safeguards's (ACRS) technical review of the NuScale Power Small Modular Reactor design.

The technical review of the NuScale DCA encompasses the requirements for review of SDA applications set forth in 10 CFR 52.139, "Standards for Review of Applications." The NuScale DCA and its references contain information that Subpart E requires for a standard design approval (described in 10 CFR 52.136, "Contents of applications; general information," and 10 CFR 52.137, "Contents of applications; technical information"). The scope of the requested approval also comprises content from the NuScale DCA not specifically required by Subpart E. The inclusion of this content ensures a more comprehensive licensing basis for use in subsequent licensing actions and any future updates to the NuScale design.

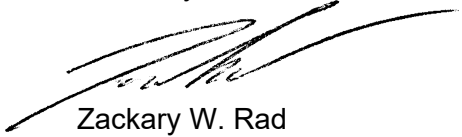
The attachment to this letter details the scope of NuScale's request for Standard Design Approval, its corresponding location within the NuScale DCA, and pertinent information regarding its inclusion.

NuScale also requests that the Advisory Committee for Reactor Safeguards consider the same docketed and reviewed information as the basis for issuing a report pursuant to 10 CFR 52.53 and 10 CFR 52.141 for the NuScale DCA and SDA, respectively.

This letter makes no regulatory commitments and no revisions to any existing regulatory commitments.

If you have any questions, please contact Michael Melton, Licensing Manager at (240) 833-3007 or at [mmelton@nuscalepower.com](mailto:mmelton@nuscalepower.com).

Sincerely,



Zackary W. Rad  
Director, Regulatory Affairs  
NuScale Power, LLC

Distribution: Anne Bradford, NRC  
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Attachment: "NuScale Standard Design Approval Content"

## Attachment: NuScale Standard Design Approval Content

The following table details the scope (contents) of NuScale's request for Standard Design Approval, its corresponding location within the NuScale DCA, and pertinent information regarding its inclusion.

Contents of NuScale SDA*	Location of Content within NuScale DCA	Notes
General Information	Part 1: General and Financial Information	Per 10 CFR 52.136
Final Safety Analysis Report and References	Part 2: Safety Analysis Report – Tier 2 and References	Per 10 CFR 52.137(a), addresses the requirements of 10 CFR 52.137(b)
Technical Specifications	Part 4: Technical Specifications	Supplementary information not specifically required by Subpart E
Exemptions	Part 7: Exemptions, Departures, and Variances	Necessary to support the FSAR; portions addressing the design certification rulemaking are not applicable to SDA
ITAAC	Included within Part 2: Safety Analysis Report – Tier 1	Supplementary information not specifically required by Subpart E; "Tier 1" designation is not applicable to SDA
Withheld Information	Part 9: Withheld Information	Necessary to support the FSAR
Quality Assurance Program Description	NuScale Quality Assurance Program Description	Per 10 CFR 52.137(a)(19)

\*Portions of DCA not included in the SDA request:

- Remainder of "Part 2: Safety Analysis Report – Tier 1," other than the ITAAC
- Part 3: Environmental Report