

November 21, 2022

Docket No. 99902078

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

**SUBJECT:** NuScale Power, LLC Staged Submittal of Planned Standard Design Approval Application

- REFERENCES:**
1. NuScale letter to NRC, "NuScale Power, LLC Response to NRC Regulatory Issue Summary 2017-08, 'Process for Scheduling and Allocating Resources for Fiscal Years 2020 through 2022 for the Review of New Licensing Applications for Light-Water Reactors and Non-Light-Water Reactors,'" dated February 5, 2018 (ML18036B047)
  2. NuScale letter to NRC, "NuScale Power, LLC Submittal of 'NuScale 250 MWt Standard Design Approval Regulatory Engagement Plan,' PL-0002-66070, Revision 2," dated February 16, 2021 (ML21047A475)
  3. NuScale letter to NRC, "NuScale Power, LLC Submittal of Planned Standard Design Approval Application Content," dated February 24, 2020 (ML20055E565)
  4. U.S. Nuclear Regulatory Commission, "Lessons Learned from the U.S. Nuclear Regulatory Commission Staff's Review of the NuScale Design Certification Application," Office of Nuclear Reactor Regulation dated March 2022 (ML22088A161)
  5. NuScale letter to NRC, "NuScale Power, LLC Requests the NRC staff to conduct a pre-application readiness assessment of the draft, NuScale Power Standard Design Approval Application (SDAA)," dated May 25, 2022 (ML22145A460)
  6. U.S. Nuclear Regulatory Commission, "Preapplication Readiness Assessment Report of the NuScale Power, LLC Standard Design Approval Draft Application," Office of Nuclear Reactor Regulation dated November 15, 2022 (ML22305A518)

The purpose of this letter is to inform the NRC that NuScale Power, LLC (NuScale) intends to electronically submit the Standard Design Approval Application (SDAA), Docket 99902078, in stages by the end of calendar year 2022. Each stage will consist of individual electronic files. The files will consist of each Part of the SDAA except for Part 2, which will be further subdivided into each FSAR chapter. Chapter submittal files will include supporting technical reports and a description of readiness assessment comment disposition (Reference 5 and Reference 6). The list below itemizes individual electronic files that will comprise the entire SDAA submission. This submission content and timeline is consistent with previous communication (Reference 2 and Reference 3). NuScale understands and expects that the official submission date of the entire application and the beginning of the acceptance review period would be upon receipt of the last electronic file upload to the Electronic Information Exchange (EIE).

For efficiency on both the part of the NRC and NuScale, it is advantageous to provide information to the NRC as soon as it is ready, rather than to wait for all information to come in with the last available information, especially since parts and chapters will be individual electronic files to accommodate EIE file size limitations. This proposal is consistent with NRC's lessons learned on engaging as early as practicable (Reference 4). This early engagement will facilitate earlier reviewer access to completed material. This approach also gives more overall time for development of list of potential issues, review schedule, and resource estimate for the NRC. It helps distribute workload for resource management for both NuScale and the NRC.

Individual electronic submission stages will include:

- Part 1: General and Financial Information
- Part 2, Chapter 1 - Introduction and General Description of Plant
- Part 2, Chapter 2 - Site Characteristics and Site Parameters
- Part 2, Chapter 3 - Design of Structures, Systems, Components and Equipment
- Part 2, Chapter 4 - Reactor
- Part 2, Chapter 5 - Reactor Coolant System and Connecting Systems
- Part 2, Chapter 6 - Engineered Safety Features
- Part 2, Chapter 7 - Instrumentation and Controls
- Part 2, Chapter 8 - Electric Power
- Part 2, Chapter 9 - Auxiliary Systems
- Part 2, Chapter 10 - Steam and Power Conversion System
- Part 2, Chapter 11 - Radioactive Waste Management
- Part 2, Chapter 12 - Radiation Protection
- Part 2, Chapter 13 - Conduct of Operations
- Part 2, Chapter 14 - Initial Test Program and Inspections, Tests, Analysis, and Acceptance Criteria
- Part 2, Chapter 15 - Accident Analysis
- Part 2, Chapter 16 - Technical Specifications
- Part 2, Chapter 17 - Quality Assurance and Reliability Assurance
- Part 2, Chapter 18 - Human Factors Engineering
- Part 2, Chapter 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
- Part 4: Technical Specifications
- Part 7: Exemptions, Departures, and Variances
- Part 8: License Conditions; Inspections, Tests, Analyses and Acceptance Criteria
- Part 9: Withheld Information
- Part 10: Quality Assurance Program Description

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

If you have any questions, please contact Mark Shaver at 541-360-0630 or at [mshaver@nuscalepower.com](mailto:mshaver@nuscalepower.com).

Sincerely,



Carrie Fosaaen  
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NuScale Power, LLC

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