

July 30, 2020

Project No. 99902078

U.S. Nuclear Regulatory Commission
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SUBJECT: NuScale Power, LLC Submittal of Presentation Materials Entitled, "SDA Pre-Application: NuScale SDAA Overview of Topical Reports," PM-0820-70992, Revision 0

REFERENCE: Letter from NuScale to NRC "NuScale Power, LLC Submittal of Presentation Materials Entitled 'NRC Presentation: NuScale Power, LLC, Planned High-Level Design Updates,' PM-0420-69609, Revision 0," dated April 9, 2020 (ML20100J205)

NuScale Power, LLC (NuScale) presented a high-level overview of planned design updates, on April 14, 2020 (Reference). The purpose of the meeting was to communicate the scope of planned design updates to support the staff with their resource planning for technical review of the Standard Design Approval Application (SDAA). As an outcome of the meeting, the NRC project management staff requested that NuScale present an overview of the planned SDAA topical reports. In response to the staff's request, NuScale will plan to present an overview of SDAA topical reports on August 13, 2020.

The purpose of this submittal is to provide presentation materials to the NRC for use during this meeting.

The enclosure to this letter is the nonproprietary version of the presentation entitled "SDA Pre-Application: NuScale SDAA Overview of Topical Reports."

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

If you have any questions, please contact Kyra Perkins at 704-713-5220 or at kperkins@nuscalepower.com.

Sincerely,



Michael Melton
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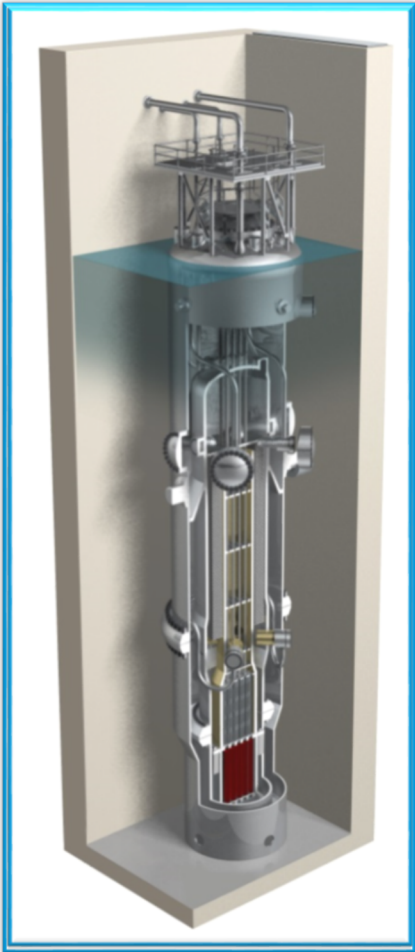
Enclosure: "SDA Pre-Application: NuScale SDAA Overview of Topical Reports," PM-0820-70992, Revision 0

Enclosure:

“SDA Pre-Application: NuScale SDAA Overview of Topical Reports,” PM-0820-70992,
Revision 0

SDA Pre-Application Presentation

NuScale SDAA Overview of Topical Reports



August 13, 2020

Safety Message

INPO Safety Trait – Decision-making

Decisions that support or affect nuclear safety are systematic, rigorous, and thorough. Employees are vested with the authority and understand the expectation, when faced with unexpected or uncertain conditions to place the plant in a safe condition. Senior leaders support and reinforce conservative decisions.

Behavior Examples:

- Managers ensure that conservative assumptions are used when determining whether emergent or unscheduled work can be conducted safely.
- Leaders take a conservative approach to decision-making, particularly when information is incomplete or conditions are unusual.
- Leaders consider long-term consequences when determining how to resolve emergent concerns.
- Individuals do not rationalize assumptions for the sake of completing a task.

Introductions & Opening Remarks

Presenters

Kyra Perkins

Licensing Project Manager

Kris Cummings

Licensing Project Manager

John Fields

Licensing Project Manager

Agenda

- Background
- Meeting purpose
- Meeting objective
- SDAA Topical Report Types
- Overview of SDAA Topical Reports
- Forecasted Topical Report Submittal Schedule
- Summary

Background

- During the April 14th, 2020 pre-application meeting, NuScale provided a high-level overview of design updates planned for the SDAA, with an approximate timeframe for future technical engagement on select topics
- As a result, NRC staff requested overview of SDAA LTRs with approximate submittal schedule

Meeting Purpose

- Provide NRC Project Management staff with an overview of SDAA LTRs to support their resource planning
 - Present scope of planned updates or supplements to previously approved LTRs
 - Present scope of planned new LTRs
 - Potentially subject to change
- Communicate forecasted SDAA LTR submittal schedule

Meeting Objective

- NRC staff will gain a general understanding of the LTRs to be submitted with the SDAA in order to identify technical resources for review
- NuScale to obtain early feedback on the proposed approach for the topical reports to allow adjustments to be made if appropriate

SDAA Topical Report Types

- **Unchanged**
 - LTR is applicable for both DCA and SDAA
- **Supplement**
 - Applies additional information to a previously approved DCA LTR including minor updates to codes, methodology and/or design features
 - Extension of applicability to SDAA
 - References the DCA LTR
- **Update**
 - Significant updates of codes, methodology and/or design features from a previously approved DCA LTR
 - Standalone document from DCA LTR
- **New**
 - Not previously reviewed by NRC staff
 - LTR is not intended to be applicable to the DCA

Acronyms

CHF	Critical Heat Flux
CRAM	Containment Response Analysis Methodology
CVAP	Comprehensive Vibration Assessment Program
DCA	Design Certification Application
DWO	Density Wave Oscillation
FSAR	Final Safety Analysis Report
IFR	Inlet Flow Restrictor
INPO	Institute of Power Operations
LOCA	Loss of Coolant Accident
LTR	NuScale Topical Report
Non-LOCA	Non-Loss of Coolant Accident
NPM	NuScale Power Module
RO	Reactor Operator
SDAA	Standard Design Approval Application
SG	Steam Generator
SRO	Senior Reactor Operator
STA	Shift Technical Advisor

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