

November 20, 2023

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 Submittal of Presentation Materials Entitled
"TR-147121, Rev. 0, Supplement 1 to HIPS Topical Report,"
PM-153501, Revision 0 (Open Session)

NuScale Power, LLC (NuScale) has requested a meeting with the NRC technical staff on November 20, 2023, to discuss the planned submittal of a supplement to topical report TR-1015-18653-P-A, Revision 2, "Design of the Highly Integrated Protection System."

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 "TR-147121, Rev. 0, Supplement 1 to HIPS Topical Report, (Open Session)" PM-153501, Revision 0.

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

If you have any questions, please contact Wren Fowler at 541-452-7183 or at sfowler@nuscallepower.com.

Sincerely,



Mark W. Shaver
Director, Regulatory Affairs
NuScale Power, LLC

Distribution: Mahmoud Jardaneh, NRC
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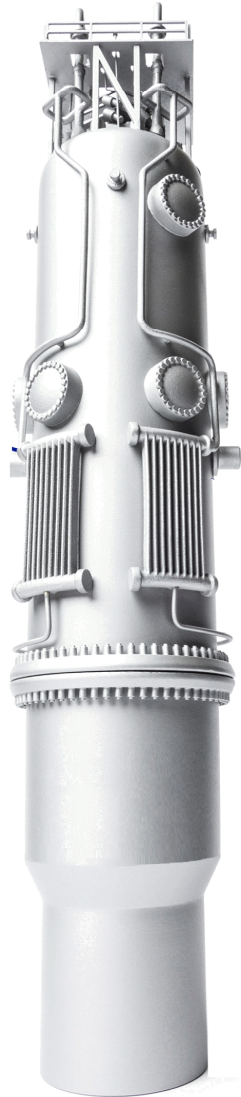
Enclosure 1: "TR-147121, Rev. 0, Supplement 1 to HIPS Topical Report, (Open Session)"
PM-153501, Revision 0

Enclosure 1:

“TR-147121, Rev. 0, Supplement 1 to HIPS Topical Report, (Open Session)” PM-153501,
Revision 0

NuScale Nonproprietary

1



TR-147121, Rev. 0 Supplement 1 to HIPS Topical Report

Pre-Submittal Presentation (Open Session)

November 20, 2023

Brian Arnholt – Manager, I&C
Chris Noack – I&C Engineer
Wren Fowler – Supervisor, Licensing
Tom Case – Licensing Engineer

Acknowledgement and Disclaimer

This material is based upon work supported by the Department of Energy under Award Number DE-NE0008928.

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Purpose

- NRC Staff engagement provides opportunity for NuScale to share overview and context of changes to the highly integrated protection system (HIPS) platform
- Pre-submittal meeting is intended to promote acceptance of upcoming topical report supplement submittal on first submittal by ensuring NRC staff reviewer understanding of changes to the base HIPS platform
- HIPS topical report TR-1015-18653-P-A, Revision 2
 - presents key design concepts and functionality of the HIPS platform
- Supplement 1 to HIPS topical report (TR-147121, Revision 0)
 - requests NRC review and approval of modifications and additions to the base HIPS platform approved in the HIPS topical report

Changes to HIPS Platform

- Standardized Backplane
- Out-of-Service Switch Routing
- Fiber-to-Copper Physical Layer
- Isolation Types
- Analog-to-Digital Converter Calibration Checks
- Light Emitting Diode Indicators
- Light Emitting Diode Test
- Input Channel Test
- Scheduling and Voting Module Data Transfer
- Position Feedback from Field Components