



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 03, 2022

MEMORANDUM TO: Michael I. Dudek, Chief  
New Reactor Licensing Branch  
Division of New and Renewed Licenses  
Office of Nuclear Reactor Regulation

FROM: Getachew Tesfaye, Senior Project Manager /RA/  
New Reactor Licensing Branch  
Division of New and Renewed Licenses  
Office of Nuclear Reactor Regulation

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF  
THE SEPTEMBER 29, 2021, OBSERVATION PUBLIC MEETING  
TO DISCUSS NUSCALE POWER, LLC'S APPROACH FOR  
TREATMENT OF DC POWER IN SAFETY ANALYSIS

The U.S. Nuclear Regulatory Commission (NRC) held an observation public meeting on September 29, 2021, to discuss NuScale Power, LLC's (NuScale's) approach for treatment of DC Power in Safety Analysis. NuScale requested this meeting to provide the NRC management and staff with a high-level overview of its approach and to solicit preliminary feedback to inform a planned topical report (TR) submittal on the proposed methodology. NuScale plans to submit the TR in May 2022.

The public meeting notice dated September 29, 2021, was posted on the NRC public website, and can be found in the NRC's Agencywide Documents Access and Management Systems (ADAMS) Accession No. ML21271A636. Information related to NuScale presentation can be found under ML21266A433 (Nonproprietary) and ML21266A437 (Proprietary).

Enclosed are the meeting agenda (Enclosure 1), list of participants (Enclosure 2), and overview (Enclosure 3).

Docket No. 99902078

Enclosures:  
As stated

cc w/encl.: DC NuScale Power, LLC Listserv

CONTACT: Getachew Tesfaye, NRR/DNRL  
301-415-8013

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF THE  
SEPTEMBER 29, 2021, OBSERVATION PUBLIC MEETING TO DISCUSS  
NUSCALE POWER, LLC'S APPROACH FOR TREATMENT OF DC  
POWER IN SAFETY ANALYSIS DATED: JUNE 03, 2022

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**ADAMS Accession No: ML22154A449      \*via email      NRR-106**

OFFICE	DNRL/NRLB:PM	DNRL/NRLB:LA	DNRL/NRLB:PM
NAME	GTesfaye	SGreen*	GTesfaye
DATE	06/03/2022	06/03/2022	06/03/2022

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**U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF THE SEPTEMBER 29, 2021,**  
**OBSERVATION PUBLIC MEETING TO DISCUSS NUSCALE POWER, LLC'S APPROACH**  
**FOR TREATMENT OF DC POWER IN SAFETY ANALYSIS MEETING AGENDA**

**September 29, 2021**

<b><i>Time</i></b>	<b><i>Topic</i></b>	<b><i>Speaker</i></b>
1:00 – 1:05 PM	Introductions and Opening Remarks	All
1:05 – 1:20 PM	Discussion of NuScale's Treatment of DC Power in Safety Analysis	NRC/NuScale
1:20 – 1:30 PM	Questions from the public	NRC/Public
	Closed Portion	
1:30 -4:00 PM	Continued Discussion of Proprietary Information	NRC/NuScale
4:00 PM	Adjourn	

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**OBSERVATION PUBLIC MEETING TO DISCUSS NUSCALE POWER, LLC'S APPROACH**  
**FOR TREATMENT OF DC POWER IN SAFETY ANALYSIS**

**LIST OF ATTENDEES**

**September 29, 2021**

<b>Name</b>	<b>Organization</b>
Getachew Tesfaye	NRC
Michael Dudek	NRC
Sheila Ray	NRC
Clinton Ashley	NRC
Rebecca Patton	NRC
Antonio Barrett	NRC
Bruce Bavol	NRC
Ryan Nolan	NRC
Rosemary Sugrue	NRC
Carl Thurston	NRC
Michael Snodderly	NRC
Rebecca Norris	NuScale
Paul Infanger	NuScale
Mark Chitty	NuScale
Kristopher Cummings	NuScale
Meghan McCloskey	NuScale
Ben Bristol	NuScale
Kevin Lynn	NuScale
Robert Gamble	NuScale
Mark Shaver	NuScale
David Rickenbach	NuScale
Gary Becker	NuScale

**U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF THE SEPTEMBER 29, 2021,**  
**OBSERVATION PUBLIC MEETING TO DISCUSS NUSCALE POWER, LLC'S APPROACH**  
**FOR TREATMENT OF DC POWER IN SAFETY ANALYSIS**

**OVERVIEW**

**September 29, 2022**

The U.S. Nuclear Regulatory Commission (NRC) held an observation public meeting on September 29, 2021, to discuss NuScale Power, LLC's (NuScale's) approach for treatment of DC Power in Safety Analysis. NuScale requested this meeting to provide the NRC management and staff with a high-level overview of its approach and to solicit preliminary feedback to inform a planned topical report (TR) submittal on the proposed methodology. NuScale plans to submit the TR in May 2022. Information related to NuScale presentation can be found under Agencywide Documents Access and Management Systems Accession Nos. ML21266A433 (Nonproprietary) and ML21266A437 (Proprietary).

During the open portion of the meeting, NuScale stated that it is implementing a modified approach to the treatment of DC power supply in Chapter 15 design-basis events for the planned Standard Design Approval Application. The modified approach leverages the augmented quality DC power system design to eliminate event progressions with coincident loss of DC and AC power following turbine trip. NuScale also stated that the treatment is consistent with identified design failure modes and there will be no change to loss of AC power timing assumptions.

During the closed portion of the meeting, NuScale gave a presentation showing details of their proposed methodology. The NRC staff provided feedback throughout the presentation and NuScale agreed to address the feedback in the planned TR.