



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

February 27, 2019

MEMORANDUM TO: Samuel S. Lee, Chief
Licensing Branch 1
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

FROM: Omid Tabatabai, Senior Project Manager /RA/
Licensing Branch 1
Division of Licensing, Siting,
and Environmental Analysis
Office of New Reactors

SUBJECT: SUMMARY OF THE FEBRUARY 19, 2019, PUBLIC MEETING
WITH NUSCALE POWER, LLC, TO DISCUSS NUSCALE
POWER LLC'S DESIGN CHANGES TO THE DECAY HEAT
REMOVAL SYSTEM AND EMERGENCY CORE COOLING
SYSTEM ACTUATION LOGICS

On February 19, 2019, representatives of the U.S. Nuclear Regulatory Commission (NRC) and NuScale Power, LLC (NuScale) held a public meeting to discuss NuScale's design changes to the decay heat removal system (DHRS) and the emergency core cooling system (ECCS) actuation logic.

Enclosure 1 captures the summary of the topics discussed during the meeting. The Meeting Agenda and List of Attendees are included in Enclosures 2 and 3, respectively. The notice for this meeting is available in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML19014A102. NuScale's presentation slides are publicly available in ADAMS (ML19053A517).

Docket No. 52-048

Enclosures:
As stated

CONTACT: Omid Tabatabai, NRO/DLSE
301-415-6616

S. Lee

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DATED: February 27, 2019

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U.S. NUCLEAR REGULATORY COMMISSION

SUMMARY OF THE FEBRUARY 19, 2019, PUBLIC MEETING WITH NUSCALE POWER, LLC, TO DISCUSS DESIGN CHANGES TO THE DECAY HEAT REMOVAL SYSTEM AND EMERGENCY CORE COOLING SYSTEM ACTUATION LOGICS

NuScale Power, LLC. (NuScale), representatives made a presentation to the U.S. Nuclear Regulatory Commission (NRC) staff (Agencywide Documents and Management System (ADAMS) (ML19053A517)), and described the ongoing design changes to the actuation logics for the decay heat removal system (DHRS) and emergency core cooling system (ECCS). NuScale stated that these design changes are necessary to support plant operations, especially, during initial plant startup. NuScale stated that the impact from the logic changes on safety analysis is minimal and some technical specifications will be changed as a result. NuScale stated that there will be no architecture or fundamental design changes to the module protection system.

The NRC staff inquired about the Design Certification Application (DCA) Chapters/Sections that would be impacted by the actuation logic changes in the DHRS and ECCS. NuScale stated that some Tier 1 and Tier 2, technical specifications, and some technical reports related to setpoint methodology and advanced sensors would be impacted.

NuScale concluded its presentation by stating that it would submit a schedule to the NRC staff by the end of February 2019, to identify exactly what Chapters/Sections of the DCA would be impacted and that NuScale plans to incorporate the corresponding changes in the Revision 3 to the DCA, which is expected to be submitted in August 2019.

U.S. NUCLEAR REGULATORY COMMISSION

**SUMMARY OF THE FEBRUARY 19, 2019, PUBLIC MEETING WITH NUSCALE POWER,
LLC, TO DISCUSS DESIGN CHANGES TO THE DECAY HEAT REMOVAL SYSTEM AND
EMERGENCY CORE COOLING SYSTEM ACTUATION LOGICS**

February 19, 2019

MEETING AGENDA

<u>Time</u>	<u>Topic</u>
1:00 p.m. – 1:10 p.m.	Introduction
1:10 p.m. – 2:30 p.m.	Discussions related to DHRS/ECCS actuation logic
2:30 p.m. – 2:35 p.m.	Public Comments
2:35 p.m.	Adjourn

Enclosure 2

U.S. NUCLEAR REGULATORY COMMISSION

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LLC, TO DISCUSS DESIGN CHANGES TO THE DECAY HEAT REMOVAL SYSTEM AND
EMERGENCY CORE COOLING ACTUATION LOGICS**

February 19, 2019

List of Attendees

<u>Name</u>	<u>Affiliation</u>
Joe Ashcraft	U.S. Nuclear Regulatory Commission (NRC)
Antonio Barrett	NRC
Sergio Basturescu	NRC
Bruce Baval	NRC
Tim Drzewiecki	NRC
Greg Gellatti	NRC
Craig Harbuck	NRC
Dawnmathews Kalathiveettil	NRC
Rebecca Karas	NRC
Sam Lee	NRC
Ryan Nolan	NRC
Jeff Schmidt	NRC
Alex Siwy	NRC
Omid Tabatabai	NRC
Dinesh Taneja	NRC
Carl Thurson	NRC
Bob Tjader	NRC
Boyce Travis	NRC
Brian Arnholt	NuScale Power, LLC. (NuScale)
Ben Bristol	NuScale
Carrie Fosaaen	NuScale
Paul Infanger	NuScale
Ross Snuggerud	NuScale
Sarah Fields	Public

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