

July 27, 2016

MEMORANDUM TO: Mark Tonacci, Chief  
Licensing Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Brent R. Clarke, Project Manager /RA/  
Licensing Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: SUMMARY OF JULY 18, 2016, PUBLIC MEETING WITH NUSCALE  
POWER, LLC TO DISCUSS NUSCALE'S APPROACH TO  
EMERGENCY CORE COOLING SYSTEM AND CONTAINMENT  
ISOLATION VALVES (PROJ0769)

On July 18, 2016, a Category 1 public meeting was conducted at NuScale Power, LLC (NuScale), 11333 Woodglen Drive, Rockville, Maryland, between representatives of the U.S. Nuclear Regulatory Commission (NRC) staff and NuScale. The meeting was also accessible via telephone conference. A closed meeting was planned to immediately follow the public meeting to discuss NuScale proprietary issues related to the same subject matter.

The purpose of the meeting was to familiarize the NRC staff and the public on NuScale's unique small modular reactor design with an emphasis on Containment and Emergency Core Cooling System (ECCS) Design and In-Service Testing and Periodic Verification. Additionally, the closed portion of the meeting was planned to discuss several NRC staff questions related to proprietary information on how NuScale will design, qualify, and test unique valves that are important to the operation and isolation of the ECCS and Containment systems.

After NRC staff completed introductions and covered the agenda and expectations, the meeting was turned over to NuScale. After verifying there would be no public participation, the meeting was transitioned to a closed meeting where discussion of proprietary information was included in all discussions.

This was an informational meeting primarily addressing how NuScale intends to meet Title 10 of the *Code of Federal Regulations* (CFR), Part 50, "Domestic Licensing of Production and Utilization Facilities," General Design Criterion (GDC) 35, "Emergency core cooling, GDC 36, "Inspection of emergency core cooling system, GDC 37, "Testing of emergency core cooling system," GDC 52, "Capability for containment leakage rate testing," GDC 53, "Provisions for containment testing and inspection," GDC 54, "Piping systems penetrating containment," GDC 55, "Reactor coolant pressure boundary penetrating containment," and GDC 56, "Primary containment isolation," with respect to:

CONTACT: Brent Clarke, NRO/DNRL  
(301) 415-6660

- Containment Isolation Valve Design.
- ECCS Design.
- In-service Testing and Periodic Verification.
- Prototype Qualification and Testing.

All agenda items were covered. Additionally, NuScale provided responses to several previously submitted questions from the NRC staff on the above topics that included proprietary information.

The meeting ended with an overall summary of the discussion. No commitments or decisions were made and there were no comments from the public. The agenda and list of meeting attendees are included in Enclosures 1 and 2.

The meeting notice is available in the Agencywide Document Access and Management System (ADAMS) with Accession No. ML16188A204. There was no presentation material used during the meeting. Please direct any inquiries to Brent R. Clarke at (301) 415-6660, or email at [brent.clarke@nrc.gov](mailto:brent.clarke@nrc.gov).

ADAMS is the system that provides text and image files of NRC public documents and can be accessed at the NRC Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room staff at (800) 397-4209, (301) 415-4737, or [pdr@nrc.gov](mailto:pdr@nrc.gov).

Project No.: PROJ0769

Enclosures:

1. Meeting Agenda
2. Meeting Attendees

cc: NuScale Listserv

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T Lupold, NRO	R Auluck, NRO	T Drzewiecki, NRO

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<b>NAME</b>	BClarke*	MBrown*	TLupold*	MTonacci
<b>DATE</b>	07/27/2016	07/21/2016	07/27/2016	07/27/2016

**OFFICIAL RECORD COPY**

## MEETING AGENDA

APRIL 14, 2016

### NUSCALE EMERGENCY CORE COOLING SYSTEM and CONTAINMENT ISOLATION VALVE

<b>TIME</b>	<b>TOPIC</b>	<b>LEAD</b>
1:00 p.m. – 1:05 p.m.	Introduction	NRC/NuScale
1:05 p.m. – 1:15 p.m.	Containment Design Overview	NuScale
1:15 p.m. – 1:25 p.m.	Emergency Core Cooling System (ECCS) Design Overview	NuScale
1:25 p.m. – 1:35 p.m.	In-service Testing and Periodic Verification	NuScale
1:35 p.m. – 1:50 p.m.	Prototype Qualification and Testing Schedule	NuScale
1:50 p.m. – 2:00 p.m.	Design Certification Document Chapters – Cross References and Status	NuScale
2:00 p.m. – 2:10 p.m.	Public Questions/Comments	Public
2:10 p.m. – 2:30 p.m.	Break	All
2:30 p.m. – 4:00 p.m.	Staff's Questions on ECCS and Containment Isolation Valves (CIV) (Proprietary – Closed to Public)	NRC/NuScale

## MEETING ATTENDEES

NAME	AFFILIATION
Brent Clarke	NRC
Greg Cranston	NRC
Thomas Scarbrough	NRC
Jason Huang	NRC
Tim Lupold	NRC
Rocky Foster	NRC
Shanlai Lu	NRC
Raj Auluck	NRC
Anne-Marie Grady	NRC
Clint Ashley	NRC
Tim Drzewiecki	NRC
Jeff Schmidt	NRC
Carl Dumsday	NuScale
Steven Mirsky	NuScale
Steven Unikewicz	NuScale
Storm Kaufman	NuScale
Randy Newton	NuScale (Corvallis)
Zack Houghton	NuScale (Corvallis)
Tamas Liszkai	NuScale (Corvallis)
Gary Chou	NuScale (Corvallis)
Colin Sexton	NuScale (Corvallis)
Marty Bryan	NuScale (Corvallis)
Gary McGee	NuScale (Corvallis)
Archie Manoharan	NuScale (Corvallis)