

May 11, 2020

Docket No. 52-048

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 "Public Meeting Presentation: Topic – Emergency Core Cooling System (ECCS) Boron Distribution," PM-0420-69511, Revision 0

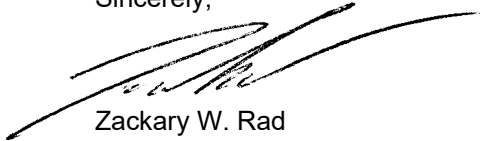
NuScale Power, LLC (NuScale) requested a meeting with the NRC technical staff on April 1, 2020, to discuss the Emergency Core Cooling System (ECCS) Boron Distribution path forward. The purpose of this submittal is to provide presentation materials to the NRC used during this meeting.

The enclosure to this letter is the nonproprietary presentation entitled "Public Meeting Presentation: Topic – Emergency Core Cooling System," PM-0420-69511, Revision 0.

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

If you have any questions, please contact Matthew Presson at 541-452-7531 or at mpresson@nuscalepower.com.

Sincerely,



Zackary W. Rad
Director, Regulatory Affairs
NuScale Power, LLC

Distribution: Gregory Cranston, NRC, OWFN-8H12
Michael Dudek, NRC, OWNN-8H12
Marieliz Johnson, NRC, OWFN-8H12

Enclosure: "Public Meeting Presentation: Topic – Emergency Core Cooling System (ECCS) Boron Distribution," PM-0420-69511, Revision 0

Enclosure:

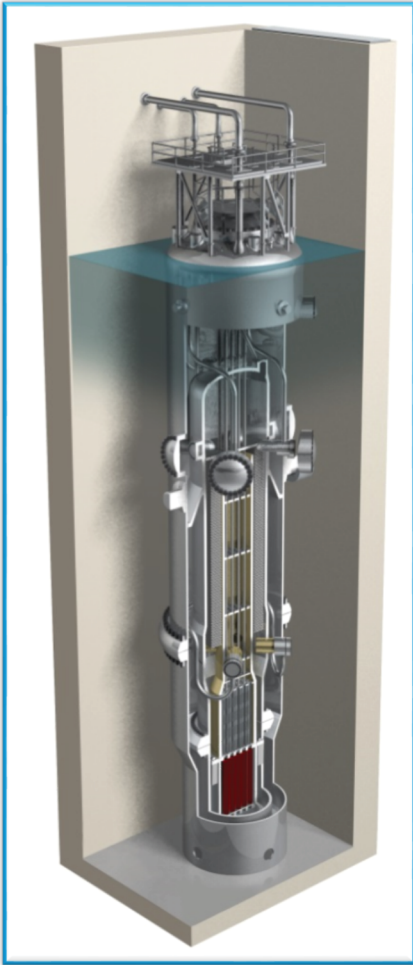
“Public Meeting Presentation: Topic – Emergency Core Cooling System (ECCS) Boron Distribution,”
PM-0420-69511, Revision 0

Public Meeting Presentation

Topic

Emergency Core Cooling System (ECCS) Boron Distribution

April 1, 2020



Presenters

Ben Bristol

Supervisor, System Thermal-Hydraulics

Matthew Presson

Licensing Project Manager

Sarah Bristol

Supervisor, PRA

Andy Lingenfelter

Fuel Engineering Manager

Mike Melton

Licensing Manager

Agenda

- ECCS Boron Transport
 - Update and Resolution/ECCS Actuation Change
- ECCS Actuation Change - Schedule /Discussion
- Conclusion

ECCS Boron Transport – Update/Resolution

Update:

In preparation for Ch. 15 ACRS subcommittee meeting NuScale determined under certain conditions, ECCS actuated later than expected and resulted in higher containment water level accumulation than is considered in RAI 8930 response basis.

Resolution and Design Change to ECCS Actuation:

NuScale is implementing a design change to ECCS actuation, which will be modified to actuate earlier to eliminate potential concerns related to containment water level accumulation and downcomer dilution.

No change in resolution since prior NRC
pubic update on March 9th.

ECCS Actuation Change – Schedule for discussion Audit Documents

Documents for audit	Ready for audit in eRR
Analytical Limits Report Rev 8	April 13
IORV Assessment	April 14
CNV P&T Assessment	April 17
LTC Assessment	April 14
LOCA Spectrum Assessment	April 23
ECCS Actuation Design Change Basis	April 23
PRA Assessment	April 23

ECCS Actuation Change – Schedule for discussion Documents for submittal

Rev 4 Errata Letter Transmittal with all CPs	Provide to support audit	Process for NRC transmittal by
CP for Tier 1, Chapter 2 Table	April 23	May 20
CP for Chapter 3	April 23	
CP for Chapter 6	April 23	
CP for Chapter 7	April 23	
CP for Chapter 15	May 2	
CP for Part 4 Technical Specification and Basis	May 6	

Documents for submittal	Provide to support audit	Process for NRC transmittal by
TR-0616-49121 Setpoint Methodology TR	April 23	May 20
TR-0316-22048 Advanced Sensor Methodology TR	April 23	May 20
TR-1116-52011 Tech Spec Regulatory Conformance and Development TR	May 6	May 20

NuScale would appreciate NRC feedback
on any schedule priorities

ECCS Boron Transport – Conclusion

- NuScale is highly committed to plant safety, and to providing a safe and passive design
- In supporting this commitment, NuScale's position is that this design change is appropriate to include as part of finalizing the DCA

Portland Office

6650 SW Redwood Lane,
Suite 210
Portland, OR 97224
971.371.1592

Corvallis Office

1100 NE Circle Blvd., Suite 200
Corvallis, OR 97330
541.360.0500

Rockville Office

11333 Woodglen Ave., Suite 205
Rockville, MD 20852
301.770.0472

Richland Office

1933 Jadwin Ave., Suite 130
Richland, WA 99354
541.360.0500

Charlotte Office

2815 Coliseum Centre Drive,
Suite 230
Charlotte, NC 28217
980.349.4804



<http://www.nuscalepower.com>

Twitter: @NuScale_Power

