

June 23, 2015

MEMORANDUM TO: Mark Tonacci, Chief
Small Modular Reactor Licensing Branch
Division of Advanced Reactors and Rulemaking
Office of New Reactors

FROM: Gregory Cranston, Senior Project Manager /RA/
Small Modular Reactor Licensing Branch
Division of Advanced Reactors and Rulemaking
Office of New Reactors

SUBJECT: SUMMARY OF JUNE 2, 2015, CLOSED MEETING WITH
NUSCALE POWER, LLC TO DISCUSS NUSCALE SMALL
MODULAR REACTOR THERMAL HYDRAULIC STABILITY
(TAC No. RN6110)

On June 2, 2015, the staff from the U.S. Nuclear Regulatory Commission (NRC) and representatives from NuScale Power, LLC (NuScale) held a closed meeting at the NuScale Rockville office located at 11333 Woodglenn Drive, Suite 205, Rockville, MD 20852.

The key areas of discussion were the review of stability mechanisms, stability model description, stability analysis sample applications, and elements of stability protection methodology. The NuScale presentation included demonstrating how they will be in compliance with all applicable regulations related to reactor stability associated with Title 10, Code of Federal Regulation, Part 50, Appendix A, General Design Criteria (GDC) for Nuclear Power Plants, specifically:

- GDC 10, Reactor Design
- GDC 12, Suppression of Reactor Power Oscillations
- GDC 13, Instrumentation and Control
- GDC 20, Protection System Functions, and
- GDC 29, Protection Against Anticipated Operational Occurrences

CONTACT: Gregory Cranston, NRO/DARR
301-415-0546

M. Tonacci

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The meeting agenda and meeting attendees are included in the Enclosure. The meeting notice is available in the NRC Agencywide Documents Access and Management System (ADAMS) with accession number ML15134A074. The closed meeting presentation slides are available in ADAMS (accession number ML15142A474). The publicly available presentation slides are available in ADAMS (accession number ML15142A473). Please direct any inquiries to Gregory Cranston at (301) 415-0546, or email at Gregory.Cranston@nrc.gov.

ADAMS is the system that provides text and image files of NRC's public documents and can be accessed at the NRC's 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.

Project No.: PROJ0769

Enclosure:
Agenda and List of Attendees

cc w/encl: DC NuScale Power LLC Mailing ListServ

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ADAMS ACCESSION No.: ML15174A147 NRO-001

OFFICE	PM: NRO/DARR/SMRLB
NAME	GCranston
DATE	06/23/2015

OFFICIAL RECORD COPY

NuScale Power Closed Meeting with the U.S. Nuclear Regulatory Commission on NuScale Small
Modular Reactor Stability

11333 Woodglen Dr, Suite 205, Rockville, MD 20852

June 2, 2015

8:30 am – 3:30 pm

AGENDA

Topic	Time
Introduction	8:30 – 8:45 am
TH Stability and Review of Stability Mechanisms	8:45 -10:15 am
Break	10:15 – 10:30 am
Stability Model Description and Model Assumptions	10:30 – 11:30 am
Stability Analysis Sample Applications	11:30 - noon
Lunch	12:00 -1:00 pm
Stability Analysis Sample Applications (continued)	1:00 – 2:30 pm
Break	2:30 – 2:45 pm
Observations and Conclusions	2:45 – 3:00 pm
Elements of Stability Protection Methodology	3:00 – 3:15 pm
Meeting Summary	3:15 – 3:30 pm

ATTENDANCE LIST

NAME	AFFILIATION	NAME	AFFILIATION
Greg Cranston	NRC/NRO	Steven Mirsky	NuScale Power
Mark Tonacci	NRC/NRO	Kent Welter	NuScale Power
Timothy Drzewiecki	NRC/NRO	Yousef Farawile	NuScale Power
James Gilmer	NRC/NRO	Stephanie Seely*	NuScale Power
		Lou Lanzse*	NuScale Power
Yeon-Jong Yoo*	NuScale Power	Maurice Adbis*	NuScale Power

*Via videoconference line from NuScale office in Corvallis, OR

Enclosure