

April 7, 2014

MEMORANDUM TO: Anna H. Bradford, Branch Chief
Small Modular Reactor Licensing Branch 2
Division of Advanced Reactors & Rulemaking
Office of New Reactors

FROM: Gregory V. Cranston, Senior Project Manager /RA/
Small Modular Reactor Licensing Branch 2
Division of Advanced Reactors & Rulemaking
Office of New Reactors

SUBJECT: SUMMARY OF MARCH 19, 2014, CLOSED MEETING WITH
THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND
NUSCALE POWER, LLC, TO DISCUSS NUSCALE'S
PROBABILISTIC RISK ASSESSMENT DEVELOPMENT
(TAC No. RN6110)

On March 19, 2014, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives from NuScale Power, LLC (NuScale) at the NRC Offices at Two White Flint North, 11545 Rockville Pike, North Bethesda, MD 20852, Room 10-A01.

The purpose of this closed meeting was for NuScale personnel to update and engage the NRC staff on (1) the status and current results of NuScale probabilistic risk assessment development, (2) the current NuScale plant response to potential beyond-design-basis events, including success criteria and core damage events, and (3) potential risk-informed activities by NuScale, including multi-module risk, risk-significance determination, and station blackout risk. This discussion was geared to the NRC staff providing feedback to NuScale on their presentation and asking technical questions to enhance understanding and development of the associated design attributes for preparation of the NRC Design-Specific Review Standard.

A. Bradford

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The meeting agenda and meeting attendees are included in Enclosures 1 and 2.

The accession number for the meeting notice is: ML14069A490 and is located in the NRC Agencywide Documents Access and Management System (ADAMS). The ADAMS accession number for NuScale's slide presentation package is ML14069A037. Non-proprietary versions of the NuScale slide presentation on its probabilistic risk assessment can be found at ML14069A043.

Project No.: PROJ0769

Enclosure:

1. Agenda
2. List of Attendees

cc w/encl: DC NuScale Power LLC Listserv

A. Bradford

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DISTRIBUTION:
PUBLIC
ABradford, NRO

ADAMS ACCESSION No.:ML14090A201

NRC-001

OFFICE	PM:NRO/DARR/SMRLB2	PM:NRO/DARR/SMRLB2	BC:NRO/DARR/SMRLB2
NAME	NDevaser	GCranston	ABradford
DATE	03/31/2014	04/07/2014	04/07/2014

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AGENDA

NuScale Power, LLC, Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Two White Flint 10-A01

Probabilistic Risk Assessment Development and Severe Accidents

Tuesday, March 19, 2014

1:00 pm – 4:30 pm

Agenda

1. Purpose and plant overview
2. NuScale design relevant to probabilistic risk assessment (PRA) and severe accidents
3. Core damage frequency (Level 1 PRA)
 - methods, models, and results
4. Severe accidents (Level 2 PRA)
 - methods, models, and results
5. Select PRA topics
 - multi-module risk approach
 - risk-significance determination
 - station blackout risk

ATTENDANCE LIST

NuScale Power, LLC, Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Two White Flint 10-A01

Probabilistic Risk Assessment Development and Severe Accidents

Tuesday, March 19, 2014

1:00 pm – 4:30 pm

NAME	AFFILIATION		NAME	AFFILIATION
ABradford	NRC/NRO/DARR/SMRLB2		GThomas	NRC/NRO/DSRA/SRSB
GCranston	NRC/NRO/DARR/SMRLB2		MCaruso	NRO/DSRA/SPRA
RDavis	NRC/NRO/DE/MCB		TBergman	NuScale
LWheeler	NRC/NRO/DRSA/BPTS		MBrasel	NuScale
RLaVera	NRC/NRO/DSEA/RPAC		SBristol	NuScale
NChien	NRC/NRO/DSRA/SCVB		JCurry	NuScale
AGrady	NRC/NRO/DSRA/SCVB		BGalyean	NuScale
AAyegbusi	NRC/NRO/DSRA/SPRA		SMirsky	NuScale
LMrowca	NRC/NRO/DSRA/SPRA		BPeters	NuScale
TNakanishi	NRC/NRO/DSRA/SPRA		JReyes	NuScale
MPatterson	NRC/NRO/DSRA/SPRA		SVoss	NuScale
MPohida	NRC/NRO/DSRA/SPRA		CWagner	NuScale
JSchaperow	NRC/NRO/DSRA/SPRA		NWalhgren	NuScale
SSchroer	NRC/NRO/DSRA/SPRA		EWallace	NuScale
CStPeters	NRC/NRO/DSRA/SPRA		KWelter	NuScale