

June 11, 2015

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

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

SUBJECT: SUMMARY OF JUNE 3, 2015, PUBLIC MEETING WITH THE
U.S. NUCLEAR REGULATORY COMMISSION STAFF AND
NUSCALE POWER, LLC, TO DISCUSS NUSCALE'S
REFUELING OPERATIONS (TAC No. RN6110)

On June 3, 2015, the staff from the U.S. Nuclear Regulatory Commission (NRC) and representatives from NuScale Power, LLC (NuScale) held a Category 1 public meeting at the NuScale Rockville office, located at 11333 Woodglen Ave., Suite 205, Rockville, MD 20852.

During the meeting, NuScale personnel provided a high-level overview of the refueling operations and also described each step associated with a NuScale module refueling. NuScale demonstrated an animation to illustrate the sequence and steps for shutdown, module movement, disassembly, refueling, reassembly and reconnection, and start-up. NuScale stated that during refueling, six licensed reactor operators plus the shift manager will oversee the operating units from the control room and that one senior licensed reactor operator will be stationed in the refueling floor to oversee the refueling operations. The NRC staff asked various questions regarding use of available operating experience in moving modules inside the reactor building pool; potential risks during module movement as well as module drop; reliability of the reactor building crane; indications in control room during refueling operations especially when modules are disconnected and being moved, including, ensuring that control rods are inserted; impact of a module drop during refueling on reactor building pool; dose rate at various locations; and the design and technical specifications of the systems and components associated with the refueling operations.

CONTACT: Omid Tabatabai, NRO/DARR
(301) 415-6616

NuScale staff responded to some of the staff's questions and agreed to make relevant documents containing detailed information about the pool drain system, dry-dock gate, and other structures and components associated with the refueling operation available to the NRC staff for review and audit.

At the conclusion of the meeting, the NRC staff from the probabilistic risk assessment and accident consequence branch requested future interactions with NuScale to better understand the risk during each of the 12 module refueling windows, including worst case scenarios if a module is dropped from a 30-foot elevation.

The meeting agenda and meeting attendees list are included in Enclosure 1. The public meeting notice is available in the Agencywide Documents Access and Management System (ADAMS) with accession number ML15152A001. Presentation slides are available in ADAMS with accession number ML15159A311. NuScale also presented one additional slide that was not originally part of the presentation. This slide is also available in ADAMS with accession number ML15160A492. Please direct any inquiries to Omid Tabatabai at (301) 415-6616, or email at omid.tabatabai@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:
Agendas and Lists of Attendees

cc: DC NuScale Power LLC Mailing ListServ

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NuScale Listserv
MTonacci, NRO

ADAMS ACCESSION No.: ML15161A523

NRC-001

OFFICE	PM:NRO/DARR/SMRLB	PM:NRO/DARR/SMRLB
NAME	GCranston, JGallo for	OTabatabai, JGallo for
DATE	06/11/2015	06/11/2015

OFFICIAL RECORD COPY

NuScale Power and NRC Public Meeting on Refueling Operations
June 3, 2015
1:00 pm – 3:30 pm

AGENDA

Time	Topic
1:00 - 1:15 pm	Introduction
1:15 - 2:00 pm	Refueling Operations
2:00 - 3:00 pm	Refueling Windows
3:00 – 3:30 pm	Public Questions and Comments

ATTENDANCE LIST

NAME	AFFILIATION	NAME	AFFILIATION
Lynn Mrowca	NRC	Steve Mirsky	NuScale Power
Omid Tabatabai	NRC	Steve Pope	NuScale Power
Greg Cranston	NRC	Cyrus Afshar	NuScale Power
John Monninger	NRC	Tim Tovar	NuScale Power
Raul Hernandez	NRC	Doug Bowman	NuScale Power
Michelle Hart	NRC	John deVos	NuScale Power
Mark Caruso	NRC	Jerry Balayan	EPM (via phone)
Marie Pohida	NRC	Mike Kirk	Enercon (via phone)
Ron LaVera	NRC	Taylor Trainer	Enercon (via phone)
Mark Tonacci	NRC	Frank Eppler	Fluor

Enclosure