

April 22, 2015

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

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

SUBJECT: SUMMARY OF MARCH 19, 2015, PUBLIC MEETING TO
DISCUSS NUSCALE FUEL AND CONTROL ROD ASSEMBLY
DESIGN

On March 19, 2015, a public meeting was held in Rockville, MD between representatives of the Nuclear Regulatory Commission (NRC) staff and NuScale Power to: 1) discuss open items from previous engagements on nuclear fuel and control rod assembly; 2) provide an overview of the roles and responsibilities associated with the new fuel vendor (AREVA); and 3) discuss fuel development and control rod assemble schedule . Presentation materials used by NuScale/AREVA can be found in the Agencywide Documents Access and Management System (ADAMS) at accession number ML15069A384.

NuScale introduced representatives of its fuel design team from both NuScale and AREVA and provided a breakdown of the roles and responsibilities for each entity. NuScale has the primary responsibility for design authority, project lead and customer relations while AREVA will provide the fuel and Control Rod Assembly (CRA) design analysis and testing for the project. NuScale has the overall accountability for a fuel design that meets Standard Review Plan Chapter 4.2, Fuel System Design.

NuScale began the meeting with a discussion of the status of three open items from previous engagements. NuScale provided status on work associated with primary water chemistry (zinc injection, pH control, crud control) and on fuel assembly damping values (which are included in the AREVA scope of work). NuScale stated that they were waiting on a NRC Information Notice (IN) regarding spacer grid capability during an Anticipated Operational Occurrence. NRC representatives clarified for NuScale that the information provided through an IN should not

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impact their progress in this area as they must meet the regulations. Additionally applicants are required to follow the guidance in place six months prior to their application submission.

The public portion of the meeting ended with AREVA presenting an overview of the fuel assembly design and testing schedule planned for the NuScale small modular reactor. Members of the public who monitored the meeting by telephone had no questions for NRC or NuScale.

The closed portion of the meeting discussed fuel rod codes and methods. Also discussed was the applicability of previously approved AREVA topical reports to the NuScale design. A general overview of the fuel test program was presented, with specific tests and the proposed schedule. A CRA design overview was presented showing the basic design and associated analyses that will be conducted on the assemblies. NuScale also discussed their licensing strategy.

The agenda and list of meeting attendees are included in Enclosure 1. The presentation materials are available in ADAMS with accession number ML15069A384. Please direct any inquiries to Jenny Gallo at (301) 415-7367, or email at Jenny.Gallo@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: Attendees

cc: J. Gallo
M. Tonacci

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The agenda and list of meeting attendees are included in Enclosure 1. The closed meeting notice is available in ADAMS with accession number ML15058A878.

The proprietary presentation slides are available in ADAMS with accession number ML15069A390. A non-proprietary version of the NuScale presentations can be found in ADAMS with accession number ML15069A388. Please direct any inquiries to Jenny Gallo at (301) 415-7367, or email at Jenny.Gallo@nrc.gov.

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ADAMS Accession No.: ML15098A438

OFFICE	PM:NRO/DARR/SMRLB	PM:NRO/DARR/SMRLB	BC:NRO/DARR/SMRLB
NAME	JGallo	GCranston	MTonacci
DATE	04/09/2015	04/09/2015	04/22/2015

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PUBLIC MEETING
AGENDA

Notice of Forthcoming Meeting with NuScale Power™, LLC (NuScale) on Fuel Design and

Testing (PROJ0769) March 19, 2015, 08:30 AM to 12:00 PM

NRC Three White Flint
North, 6-A28 11601
Landsdown Street
Rockville, MD

<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
9:00-9:15 am	Introductions	All
9:15-9:45 am	Fuel Design Team and Basic Fuel Design	Larry Link (NuScale)
9:45-10:00 am	Opportunity for Public to Ask Questions	All
10:00-10:15 am	Break	All
10:15-11:00 am	Fuel and Control Rod Assembly Analysis (Closed to Public)	GlenThomas (AREVA)
11:00-11:30 am	Fuel Test Program, Methods, and Schedule (Closed to Public)	Glen Thomas (AREVA)
11:30-12:00 pm	Questions (Closed to Public)	

Attendees
NuScale Power, LLC and NRC on Fuel Design
March 19, 2015

<u>Name</u>	<u>Affiliation</u>
Glen Thomas	AREVA
Brett Matthews	AREVA
Philippe Bellenger	AREVA
Daniel Chalk	Department of Energy
Steve Mirsky	NuScale
Laurence Losh	NuScale
Lawrence Linik	NuScale
Jeff Reed	AREVA (phone)
Richard Harne	AREVA (phone)
Rhinda Dederson	AREVA (phone)
Chris Van Wert	NRC
Jeffery Schmidt	NRC
Greg Cranston	NRC
John McKirgan	NRC
Stephanie Seely	NuScale (phone)
Eric Young	NuScale (phone)

Enclosure

Chris Vitello	NuScale (phone)
Jenny Gallo	NRC
Omid Tabatabai	NRC
Arlon Costa	NRC
John Jolicoeur	NRC
Harold Scott	NRC
James Gilmer	NRC
John Budzynski	NRC
Marvin Lewis	Member of the Public
Anne-Marie Grady	NRC