

November 7, 2016

MEMORANDUM TO: Mark Tonacci, Chief
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

FROM: Rocky D. Foster, Project Manager /RA/
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF OCTOBER 20, 2016, OPEN/CLOSED PUBLIC
MEETING WITH NUSCALE POWER, LLC, TO DISCUSS THE
EMERGENCY PLANNING ZONE SIZING METHODOLOGY AND THE
ACCIDENT SOURCE TERM METHODOLOGIES TOPICAL REPORTS

On October 20, 2016, a Category 1 open/closed meeting was held between representatives of the U.S. Nuclear Regulatory Commission (NRC) staff and NuScale Power, LLC (NuScale) at the NuScale Rockville office located at 11333 Woodglenn Drive, Suite 205, Rockville, Maryland. The purpose of the meeting was to discuss technical details regarding the Emergency Planning Zone (EPZ) Sizing Methodology Topical Report (TR) and the Accident Source Term (AST) Methodology TR.

NuScale began the public portion of the meeting with an overview description and discussion of the approach of the EPZ sizing methodology TR on addressing the evaluation of defense in depth, seismic probabilistic risk assessment (PRA), low power shutdown PRA, and the multi-module risk evaluation. Further discussion was held on the EPZ sizing methodology TR applicability and any comparisons towards the yet to be submitted design certification application (DCA). At the conclusion of the open meeting discussion, comments were solicited from the public, none were provided. The open portion of the meeting was summarized with no additional items identified by the NRC staff, the open portion of the meeting was adjourned.

At that time the meeting was closed to the public with further proprietary level discussions on the EPZ sizing methodology TR subjects of the evaluation of defense in depth, seismic PRA, low power shutdown PRA, and the multi-module risk evaluation. The meeting discussion changed focus towards the topics of the AST methodology TR on clarification of a large break loss-of-coolant accident, use of the STARNAUA and RADTRAN computer modeling codes, and thermal hydraulic analysis. The meeting concluded with a discussion of technical clarification questions on proprietary draft request for additional information (RAI) on the AST methodology TR, which NuScale had been provided on September 28, 2016. Due to the time required for proprietary information review and a clarification meeting, the final RAIs will be issued by November 2016.

CONTACT: Rocky D. Foster, NRO/DNRL
(301) 415-5787

There are outstanding issues and RAIs on the EPZ sizing methodology TR, therefore, extensive changes are needed as a result of the discussions at the meeting. It was decided that a revision to the TR was necessary before the NRC staff could resume a meaningful review. NuScale informed the NRC staff that due to the resource requirements for preparation of the NuScale DCA, NuScale requested Revision 1 to the EPZ sizing methodology TR be submitted during the first quarter of 2017. In addition, due to these resource needs, NuScale requested a 120 day response due date for the soon to be issued AST methodology TR RAIs. The NRC staff informed NuScale that because of these requests, both TR review schedules would be substantially impacted. Additionally, when the AST methodology TR RAI responses are submitted for NRC staff review, there may be other priority work, such as the DCA review, that may also impact the schedule for these TRs. NuScale stated they would accept the delays for both TR technical review schedules due to their requests.

Due to NuScale's unique, first-of-a-kind, complex approach towards the methodology for EPZ sizing, multiple meetings, proprietary information reviews, NRC staff resources requested by NuScale for the DCA readiness assessment, delays in clarification discussions on draft RAIs and NuScale's request for delays in providing further information, this has caused an impact on the TRs review schedules by an estimated 5-6 months. Therefore, the NRC staff has estimated the schedule impact on both TR technical reviews would have a completion date towards the end of the first quarter of 2018. The meeting was concluded with an overall summary of the discussions on the NuScale EPZ sizing methodology TR and the AST methodology TR.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. The meeting notice is available in the NRC's Agencywide Documents Access and Management System (ADAMS) with Accession No. ML16264A279. Please direct any inquiries to Rocky Foster at (301) 415-5787, or email at rocky.foster@nrc.gov.

The ADAMS system provides text and image files of NRC public documents and can be accessed through the NRC 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

Enclosures:

1. Meeting Agenda
2. Meeting Attendees

cc: NuScale Power LLC Listserv

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***via email NRC002**

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DATE	11/03/2016	11/03/2016	11/07/2016

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**Emergency Planning Zone (EPZ) Sizing and
Accident Source Term (AST) Methodology
Topical Reports (TR) Meeting Agenda
October 20, 2016 1:00 pm – 4:00 pm
NuScale Rockville, Maryland Office**

Time	Topic	Speaker
1:00 pm – 1:10 pm	Introductions	All
1:10 pm – 1:30 pm	EPZ Sizing TR Evaluation of Defense in Depth, Seismic PRA, Low Power Shutdown PRA and Multi-Module Risk Evaluation	NRC/NuScale
1:30 pm – 1:45 pm	Public Comments / Break	All
1:45 pm – 2:20 pm	EPZ TR Evaluation of Defense in Depth and Seismic PRA <i>Closed to the Public</i>	NRC/NuScale
2:20 pm – 2:50 pm	EPZ TR Low Power Shutdown PRA and Multi-Module Risk Evaluation <i>Closed to the Public</i>	NRC/NuScale
2:50 pm – 3:50 pm	AST TR Large Break LOCA, Use of STARNAUA and RADTRAD, and Thermal Hydraulic Analysis <i>Closed to the Public</i>	NRC/NuScale
3:50 pm – 4:00 pm	Meeting Summary <i>Closed to the Public</i>	NRC

MEETING ATTENDEES

NAME	AFFILIATION
John Monninger	NRC
Lynn Mrowca	NRC
Mark Tonacci	NRC
Michelle Hart	NRC
Mark Caruso	NRC
Brad Harvey	NRC
Jason Schaperow	NRC
Don Palmrose	NRC
Shawn Campbell	NRC
Courtney St. Peters	NRC
Jessica Voveris	NRC
William Garner	NRC
Rocky Foster	NRC
Steven Mirsky	NuScale
Dave Leaver	NuScale
Archie Manoharan	NuScale (Corvallis)
Kent Welter	NuScale (Corvallis)
Jennie Wike	NuScale (Corvallis)
Scott Weber	NuScale (Corvallis)
Kevin Deyette	NuScale (Corvallis)
Akira Tokuhira	NuScale (Corvallis)
Jeremiah Doyle	NuScale (Corvallis)
Luke McSweeney	NuScale (Corvallis)
Isaac Hines	NuScale (Corvallis)
Wendell Wagner	NuScale (Corvallis)
Kenny Anderson	NuScale (Corvallis)
Russell Goff	NuScale (Corvallis)
Marc Nichol	NEI
Sarah Fields	Uranium Watch
Sara Barczak	Southern Alliance for Clean Energy