



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

July 31, 2018

MEMORANDUM TO: Samuel S. Lee, Chief  
Licensing Branch 1  
Division of Licensing, Sitting,  
and Environmental Analysis,  
Office of New Reactors

FROM: Marieliz Vera, Project Manager */RA/*  
Licensing Branch 1  
Division of Licensing, Sitting,  
and Environmental Analysis,  
Office of New Reactors

SUBJECT: SUMMARY OF THE JUNE 13, 2018, CATEGORY 1 PUBLIC  
TELECONFERENCE WITH NUSCALE POWER, LLC DESIGN  
CERTIFICATION APPLICATION SECTION 3.6.2,  
"DETERMINATION OF RUPTURE LOCATIONS AND DYNAMIC  
EFFECTS ASSOCIATED WITH THE POSTULATED RUPTURE  
OF PIPING"

The U.S. Nuclear Regulatory Commission (NRC) held a Category 1 public teleconference on June 13, 2018, to discuss Final Safety Analysis Report (FSAR) Tier 2, Chapter 3, Section 3.6.2 "Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping," of the NuScale Power, LLC (NuScale) Design Certification. Participants included personnel from NuScale.

The public meeting notice can be found in the Agencywide Documents Access and Management Systems under Accession No. ML18150A415. This meeting notice was also posted on the NRC public Website.

The meeting agenda and list of participants can be found in Enclosures 1 and 2, respectively.

CONTACT: Marieliz Vera, NRO/DLSE  
301-415-5861

**Summary:**

The purpose of this meeting was to discuss NuScale's overall pipe break analysis approach including NuScale's approach/methodology for addressing the potential non-conservatism of the ANS 58.2 Standard jet modeling as described in RAI 8836 (ML17153A065), Question 03.06.02-5, including details of the NuScale plant specific computational fluid dynamics (CFD) modeling for assessing jet impingement and blast wave effect, the verification and validation of the CFD, and the progress made including applicable CFD preliminary results.

NuScale presented their approaches for addressing the potential non-conservatism of ANS 58-2 modeling. They discussed their methodology for assessing the dynamic effects of jet impingement and blast wave. NuScale is still performing the analysis. NuScale also provided the NRC staff with updates on the status and indicated that the RAI response (including technical report and the FSAR updates) may be delayed beyond the current due date of August 24, 2018. NuScale will reconfirm or revise the RAI due date by June 29, 2018. NuScale is aware of the schedule impact to NRC internal milestones.

The issue related to the break exclusion criteria for the welds between the safe-ends and the respective nozzles on the containment vessel (CNV) head as well as the welds between the safe-ends and the respective containment isolation valves (CIVs) was discussed. NuScale only applies the break exclusion criteria to the welds between the safe-ends and the respective valves. The NRC staff communicated to NuScale the expectation regarding the break exclusion criteria that also needs to be considered for the welds between the safe-ends and the respective nozzles on the CNV head. NuScale stated that they understood the NRC staff's position and recommended to further discuss this issue in the next meeting.

Docket No. 52-048

**Enclosures:**

1. Meeting Agenda
2. List of Attendees

cc w/encls.: DC NuScale Power, LLC Listserv

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<b>OFFICE</b>	NRO/DLSE/LB1: PM	NRO/DLSE/LB1: LA	NRO/DNRL/LB1: PM
<b>NAME</b>	MVera	MMoore	MVera
<b>DATE</b>	07/26/2018	07/30/2018	7/31/2018

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**U.S. NUCLEAR REGULATORY COMMISSION**  
**CATEGORY 1 PUBLIC TELECONFERENCE WITH NUSCALE POWER, LLC**  
**DESIGN CERTIFICATION APPLICATION SECTION 3.6.2,**  
**"DETERMINATION OF RUPTURE LOCATIONS AND DYNAMIC EFFECTS ASSOCIATED**  
**WITH THE POSTULATED RUPTURE OF PIPING"**

**June 13, 2018**

**1:00 p.m. – 3:00 p.m.**

**AGENDA**

<b>Public Meeting</b>	
10:30-10:35am	Welcome and Introductions
10:35-11:55am	Discussion of the path forward for the Request for Additional Information
11:55-12:00pm	Public - Questions and Comments

**U.S. NUCLEAR REGULATORY COMMISSION**  
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**LIST OF ATTENDEES**

**June 13, 2018**

<b>NAME</b>	<b>AFFILIATION</b>
Marieliz Vera	U.S. Nuclear regulatory Commission (NRC)
Yueh-Li Li	NRC
Jason Huang	NRC
Yuken Wong	NRC
Robert Caldwell	NRC
Shana Helton	NRC
Marty Bryan	NuScale Power, LLC (NuScale)
Wayne Massie	NuScale
Storm Kauffman	NuScale
JJ Arthur	NuScale
Storm Kauffman	NuScale
Wayne Massie	NuScale
Marty Bryan	NuScale
Nadja Joergensen	NuScale
Marwan Charrouf	NuScale
Daniel Diefendorf	NuScale