

October 6, 2016

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

FROM: Rani Franovich, Senior Project Manager /RA/
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF CLOSED MEETING WITH NUSCALE POWER,
LLC TO DISCUSS NUSCALE'S DRAFT TOPICAL REPORT ON
SEISMIC ANALYSIS OF AREVA FUELS (CAC# RN6307)

On September 1, 2016, representatives of the U.S. Nuclear Regulatory Commission (NRC) staff and NuScale Power, LLC (NuScale) held a closed meeting at the NuScale office located at 11333 Woodglen Avenue, Suite 205, Rockville, Maryland, 20852. The purpose of the meeting was for the NRC staff to review the draft NuScale/AREVA, Inc. (AREVA) fuel seismic applicability topical report (TR), ask questions, seek clarification, and confirm its understanding of the technical content and how the TR will be applied to the NuScale design certification application, which the applicant is preparing for formal submittal in December 2016.

During the course of the meeting, NRC staff acknowledged that the NuScale/AREVA fuel seismic applicability TR references the AREVA fuel seismic methodology TR (ANP-10337P, "PWR Fuel Assembly Structural Response to Externally Applied Dynamic Excitations"), which is currently being reviewed by the Office of Nuclear Reactor Regulation (NRR). The NRC staff also noted that any concerns identified as part of NRR's review could impact the NuScale/AREVA TR review and associated review schedule. Specifically, the NRC staff made the following observations:

- ANP-10337, Figure 6-1, describes the method by which the natural frequency of the assembly is chosen. This method of natural frequency selection may not be as conservative as choosing a natural frequency, which aligns with the seismic excitation. This issue may be addressed during the NRR review of ANP-10337, and its resolution could have implications for the NuScale/AREVA fuel seismic applicability TR.
- The NRC staff seeks to understand the ability of the model to predict grid deformation. This issue may be addressed during the NRR review of ANP-10337, and its resolution could have implications for the NuScale/AREVA fuel seismic applicability TR.

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The NRC staff observed that requests for additional information could be precluded or minimized if the TR is enhanced in the following area:

- The maximum experimental deflection range presented in the report was specified, but the calculated NuScale deflection range is not presented. If the NuScale deflection is greater than the maximum experimental deflection range, then additional justification of the applicability of the methodology to NuScale would be needed for the NRC staff to make a reasonable assurance finding.

No additional items were identified by the NRC staff, and no requests were made by NuScale.

The list of meeting attendees is included in the Enclosure. The meeting notice and agenda are available in the NRC Agencywide Documents Access and Management System (ADAMS) under Accession No. ML16230A268. 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.

Enclosure:
Meeting Attendees

cc: NuScale List Serv

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NRC-001

OFFICE	PM: NRO/DNRL/LB1*	LA: NRO/DNRL/LB1	PM:NRO/DNRL/LB1	BC: NRO/DSRA/SRSB	BC: NRO/DNRL/LB1
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DATE	10/04/2016	10/04/2016	10/5/2016	10/06/2016	10/06/2016

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List of Meeting Attendees

September 1, 2016

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Enclosure