

November 3, 2016

Mr. Thomas Bergman
Vice President, Regulatory Affairs
NuScale Power, LLC
1100 NE Circle Boulevard, Suite 200
Corvallis, OR 97330

SUBJECT: DETAILED PRE-APPLICATION READINESS ASSESSMENT OBSERVATIONS
OF THE NUSCALE POWER, LLC DESIGN CERTIFICATION APPLICATION
(PROJ0769)

Dear Mr. Bergman:

On October 7, 2016, the U.S. Nuclear Regulatory Commission (NRC) staff issued a letter to you that broadly summarized its observations after completing its pre-application readiness assessment (hereinafter "readiness assessment") of the draft application and supporting documents that NuScale Power, LLC (NuScale) intends to submit as part of the NuScale Design Certification Application (DCA). The letter is available in the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession No. ML16277A515. In that letter, the NRC staff indicated that it would issue a subsequent letter to transmit detailed observations for use by NuScale in its application development efforts. This follow-up letter transmits the detailed observations identified during the readiness assessment. There are three enclosures to this letter; observations of potential docketing issues, observations of potential requests for additional information (RAIs) and a list of acronyms. The docketing and RAI enclosures represent examples of the two over-arching observations made during the exit meeting and described in the October 7, 2016, letter. These examples are listed in no particular order.

The NRC staff recognizes and appreciates the extensive efforts that NuScale undertook to prepare for the readiness assessment activities. There were many positive interactions with the NuScale staff in Rockville, Maryland and in Corvallis, Oregon, during the numerous technical discussions. As you know, the NRC staff conducted debriefings each afternoon with the NuScale staff in Corvallis, Oregon (via videoconferencing) and in Rockville, Maryland, to identify concerns that could adversely affect the NRC's acceptance of the DCA. The NRC staff also noted that some areas that were found to be challenging during earlier pre-application interactions with NuScale, have now been sufficiently addressed. For example, the draft application reflected extensive work in the areas of the control room simulator configuration and concept of operations which the NRC staff noted has matured significantly since the March and April 2016 human factors engineering audit. Additionally, NuScale staff provided detailed documentation of the control room staffing plan validation method and results for the NRC staff to review during the readiness assessment.

T. Bergman

- 2 -

Electrical features described in Chapter 8 involve designs that are new, and although the staff did identify a large number of potential Requests for Information, it did not identify any potential electrical docketing issues at this time.

We are available to meet with you to discuss any or all readiness assessment observations.

If you have any questions or concerns, please contact Ms. Rani Franovich at 301-415-7334 or Rani.Franovich@nrc.gov.

Sincerely,
/RA/

Frank M. Akstulewicz, Director
Division of New Reactor Licensing
Office of New Reactors

Project No.: PROJ0769

Enclosures:

1. Observations of Docketing Issues
2. Observations of RAI Issues
3. List of Acronyms

cc: NuScale listserv

T. Bergman

- 2 -

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ML16287A718 – Package

ML16287A591 – Letter

ML16287A722 – Table (Docketing Issues)

ML16287A766 – Table (RAI Issues)

ML16288A188 - Acronyms and Abbreviations

**via email*

NRO-002

	DNRL/LB1:PM*	DNRL/LB1:PM	DNRL/LB1:LA*	DNRL/LB1:BC	DEIA: D	DSEA: D
NAME	ARandall	GCranston	MBrown	MTonacci	MMayfield(RCaldwell for)	SFlanders
DATE	10/19/2016	10/19/2016	10/21/2016	10/21/2016	10/20/2016	10/20/2016
OFFICE	DSRA: DD	DCIP: D	NSIR/DPR	NSIR/DSP:DD	NRR/DE:DD	DNRL: D
NAME	JDanna	MCheok	DBarss	RFelts	MRoss-Lee	FAkstulewicz(ABradford for)
DATE	10/20/2016	10/18/2016	10/19/2016	10/19/2016	10/19/2016	10/21/2016

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