



December 29, 2016

Docket: PROJ0769

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

SUBJECT: NuScale Power, LLC Submittal of Response to NRC Request for Supplemental Information to TR-0116-21012 (NRC Project No. 0769)

REFERENCES:

1. Letter from NuScale Power, LLC to U.S. Nuclear Regulatory Commission, "NuScale Power, LLC Submittal of 'NuScale Power Critical Heat Flux Correlation NSP2,' Revision 0," LO-0916-51389, dated October 5, 2016 (ML16279A363).
2. NuScale Topical Report, "NuScale Power Critical Heat Flux Correlation NSP2," TR-0116-21012, Revision 0, dated October 2016.
3. Letter from U.S. Nuclear Regulatory Commission to NuScale Power, LLC, "Acceptance Review of NuScale Topical Report TR-0116-21012, 'NuScale Power Critical Heat Flux Correlation NSP2,' Revision 0," dated December 5, 2016 (ML16334A234).

In a letter dated October 5, 2016 (Reference 1), NuScale Power, LLC (NuScale) submitted the topical report entitled, "NuScale Power Critical Heat Flux Correlation NSP2" (Reference 2). In Reference 3, the NRC requested NuScale to provide supplemental information by January 20, 2017 in order to enable the NRC staff to complete its acceptance review of the report. The purpose of this letter is to provide the requested supplementary information.

Enclosure 1 provides a proprietary version of the requested information. Enclosure 2 is the nonproprietary version of the requested information.

NuScale requests that the proprietary version be withheld from public disclosure in accordance with the requirements of 10 CFR § 2.390. The enclosed affidavit (Enclosure 3) supports this request. Enclosure 1 has also been determined to contain Export Controlled Information. This information must be protected from disclosure per the requirements of 10 CFR § 810.

This letter makes no regulatory commitments and no revisions to any existing regulatory commitments.

Please feel free to contact Jennie Wike at 541-360-0539 or at jwike@nuscalepower.com if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Bergman", written over a circular stamp.

Thomas A. Bergman
Vice President, Regulatory Affairs
NuScale Power, LLC

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NRD

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- Enclosure 1: Response to NRC Request for Supplemental Information to TR-0116-21012, Revision 0, proprietary version
- Enclosure 2: Response to NRC Request for Supplemental Information to TR-0116-21012, Revision 0, nonproprietary version
- Enclosure 3: Affidavit, [AF-1216-52465]



LO-1216-52464

Enclosure 1:

Response to NRC Request for Supplemental Information to TR-0116-21012, Revision 0, proprietary version

**NRC Request for Supplemental Information (ML16334A234):**

In order for the NRC staff to complete its review of TR-0116-21012, they need to perform an independent assessment regarding the acceptability of the NSP2 CHF correlation for performing safety analyses and demonstrating compliance with GDC 10. To that end, NRC staff needs NuScale to provide the following information to allow docketing of the TR for a detailed technical review:

- *Local Conditions for Stern U1, U2, and C1 Tests at CHF*
- *Local Conditions for AREVA Test K8500 Test at CHF*
- *Local Conditions for AREVA K9000, K9100, K9200, and K9300 Tests at CHF*

NuScale Response:

NuScale provides the attached supplement to topical report TR-0116-21012, Revision 0 entitled "TR-0116-21012, Revision 0, Appendix A." This attachment provides the information requested by the NRC. NuScale intends to incorporate this appendix into the final approved revision of the report.

Attachment:

TR-0116-21012, Revision 0, Appendix A, proprietary version



LO-1216-52464

Enclosure 2:

Response to NRC Request for Supplemental Information to TR-0116-21012, Revision 0, nonproprietary version



NRC Request for Supplemental Information (ML16334A234):

In order for the NRC staff to complete its review of TR-0116-21012, they need to perform an independent assessment regarding the acceptability of the NSP2 CHF correlation for performing safety analyses and demonstrating compliance with GDC 10. To that end, NRC staff needs NuScale to provide the following information to allow docketing of the TR for a detailed technical review:

- *Local Conditions for Stern U1, U2, and C1 Tests at CHF*
- *Local Conditions for AREVA Test K8500 Test at CHF*
- *Local Conditions for AREVA K9000, K9100, K9200, and K9300 Tests at CHF*

NuScale Response:

NuScale provides the attached supplement to topical report TR-0116-21012, Revision 0 entitled "TR-0116-21012, Revision 0, Appendix A." This attachment provides the information requested by the NRC. NuScale intends to incorporate this appendix into the final approved revision of the report.

Attachment:

TR-0116-21012, Revision 0, Appendix A, nonproprietary version



Appendix A. Local Conditions

This attachment is withheld in entirety from public disclosure in accordance with 10 CFR § 2.390 and 10 CFR § 810.