From:	Bavol, Bruce
Sent:	Monday, March 21, 2022 3:48 PM
То:	RAI@nuscalepower.com
Cc:	NuScale-SDA-720RAIsPEm Resource; Myers, Gregory; Norris, Rebecca;
	Tesfaye, Getachew; Cranston, Greg; Patton, Rebecca;
	tgriffith@nuscalepower.com; Dudek, Michael
Subject:	Final Request for Information eRAI 9899 (Non-Proprietary)
Attachments:	Final Request for Information eRAI 9899 (Non-Proprietary).pdf

Good Morning,

Attached please find NRC staff's request for additional information (RAI 9899) concerning the review of Licensing Topical Report TR-107522-P Rev 0, "Applicability Range Extension of NSP4 Critical Heat Flux Correlation," (Agencywide Documents Access and Management System [ADAMS] Accession Nos. ML21309A755 [proprietary] and ML21309A754 [nonproprietary]).

Please submit your technically correct and complete response by the agreed upon date to the NRC Document Control Desk.

If you have any questions, please feel free to contact me at 301-415-6715.

Thank you,

Bruce M. Bavol

Project Manager Office of Nuclear Reactor Regulation DNRL/NRLB

Docket No.: 99902078

Hearing Identifier: Email Number:	NuScale_SDA720_RAI_Public 5	
Mail Envelope Prope	rties (SA1PR09MB7949FF5B510B61B10E7E9CAAEE169)	
Subject: Sent Date: Received Date: From:	Final Request for Information eRAI 9899 (Non-Proprietary) 3/21/2022 3:47:30 PM 3/21/2022 3:47:32 PM Bavol, Bruce	
Created By:	Bruce.Bavol@nrc.gov	
Recipients: "NuScale-SDA-720RAIsPEm Resource" <nuscale-sda-720raispem.resource@usnrc.onmicrosoft.com> Tracking Status: None "Myers, Gregory" <gmyers@nuscalepower.com> Tracking Status: None "Norris, Rebecca" <rnorris@nuscalepower.com> Tracking Status: None "Tesfaye, Getachew" <getachew.tesfaye@nrc.gov> Tracking Status: None "Cranston, Greg" <gregory.cranston@nrc.gov> Tracking Status: None "Patton, Rebecca" <rebecca.karas@nrc.gov> Tracking Status: None "tgriffith@nuscalepower.com" <tgriffith@nuscalepower.com> Tracking Status: None "Patton, Rebecca" <rebecca.karas@nrc.gov> Tracking Status: None "tgriffith@nuscalepower.com" <tgriffith@nuscalepower.com> Tracking Status: None "Dudek, Michael" <michael.dudek@nrc.gov> Tracking Status: None "RAI@nuscalepower.com" <rai@nuscalepower.com> Tracking Status: None</rai@nuscalepower.com></michael.dudek@nrc.gov></tgriffith@nuscalepower.com></rebecca.karas@nrc.gov></tgriffith@nuscalepower.com></rebecca.karas@nrc.gov></gregory.cranston@nrc.gov></getachew.tesfaye@nrc.gov></rnorris@nuscalepower.com></gmyers@nuscalepower.com></nuscale-sda-720raispem.resource@usnrc.onmicrosoft.com>		

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Normal
No
No
Normal

Request for Additional Information

Issue Date: 03/14/2022 Application Title: Pre-Application Activities for NuScale SDA Application Operating Company: NuScale Docket No. 99902078 Review Section: NTR - NuScale Topical Report for SDA Application Section: TR-107522 Applicability Range Extension of NSP4 CHF Correlation

RAI 9899 - QUESTIONS

NTR-01

Regulatory Basis:

Title 10 of the Code of Federal Regulations (10 CFR) Part 52, Section 47 and Section 79 require a final safety analysis report (FSAR) to analyze the design and performance of the structures, systems, and components (SSCs). Safety evaluations, performed to support the FSAR, include accident analyses to demonstrate that specified acceptable fuel design limits (SAFDLs) are not exceeded during normal operation, including the effects of anticipated operational occurrences (AOOs).

GDC 10, *Reactor design*, which requires that the reactor core and associated coolant, control, and protection systems be designed with appropriate margin to assure that SAFDLs are not exceeded during any condition of normal operation, including the effects of AOOs.

Issue:

In Supplement 1 to TR-0116-21012-P-A, Revision 1, NuScale provided NSP4 predictions for {{ }}}.

Request:

NTR-02

Regulatory Basis:

Title 10 of the Code of Federal Regulations (10 CFR) Part 52, Section 47 and Section 79 require a final safety analysis report (FSAR) to analyze the design and performance of the structures, systems, and components (SSCs). Safety evaluations, performed to support the FSAR, include accident analyses to demonstrate that specified acceptable fuel design limits (SAFDLs) are not exceeded during normal operation, including the effects of anticipated operational occurrences (AOOs).

GDC 10, *Reactor design*, which requires that the reactor core and associated coolant, control, and protection systems be designed with appropriate margin to assure that SAFDLs are not exceeded during any condition of normal operation, including the effects of AOOs.

Issue:

In their February 18, 2022, submittal of supplement information, "CHF Topical Supplement, February 3, 2022, Clarification Call Summary", NuScale {{

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<u>Request:</u> {{

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