



**NUSCALE  
POWER™**

LO-1216-52590

December 30, 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 Technical Reports Supporting the NuScale Design Certification Application (NRC Project No. 0769).

NuScale Power, LLC (NuScale) is submitting a Design Certification Application (DCA) for its Integral Small Modular Reactor (SMR) design. The purpose of this letter is to provide technical reports, referenced in the NuScale Final Safety Analysis Report, that provide supplementary information, data and analyses.

Enclosure 1 contains the proprietary and security-related versions of the subject technical reports, as applicable, on Digital Versatile Disc (DVD). NuScale requests that these documents be withheld from public disclosure in accordance with the requirements of 10 CFR § 2.390. Enclosure 2 contains the versions of the subject reports suitable for the release to the public and related affidavits, as applicable, on DVD.

The attachment to this letter contains an itemized list of the files contained on each DVD.

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

Please feel free to contact Zackary Rad, Director, Regulatory Affairs at 980.349.4831 or at zrad@nuscalepower.com if you have any questions.

Sincerely,

Thomas A. Bergman  
Vice President, Regulatory Affairs

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- Attachment: Itemized List of Enclosure (DVD) Contents
- Enclosure 1: DVD #1, Proprietary and Security Related Versions of Technical Reports Supporting of the NuScale DCA
- Enclosure 2: DVD #2, Public Versions and Related Affidavits of Technical Reports in Supporting of the NuScale DCA



BCC:

Dale Atkinson, Chief Operating Officer/Chief Nuclear Officer  
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Lisa Gaur, Executive Assistant to CEO  
Tracey Brown, Executive Assistant

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**Attachment: Itemized List of Enclosure (DVD) Contents**

<b>DVD #1</b>		
<b>File Name</b>	<b>Document Name</b>	<b>Classification</b>
001 TR-0816-50796-P Loss of Large Areas.pdf	Loss of Large Areas Due to Explosions and Fires Assessment	Contains Security-Related Information
002 TR-0116-20781-P Fluence Calc Methodology.pdf	Fluence Calculation Methodology and Results	Contains Proprietary Information
003 TR-0616-49121-P Instr Setpnt Methodology.pdf	NuScale Instrument Setpoint Methodology	Contains Proprietary Information
004 TR-0816-50797-P Extnd Loss of AC.pdf	Mitigation Strategies for Extended Loss of AC Power Event	Contains Proprietary Information
005 TR-0716-50439-P Comp Vib Asses Pgm.pdf	NuScale Comprehensive Vibration Assessment Program	Contains Proprietary Information
006 TR-0716-50424-P Combustible Gas Control.pdf	Combustible Gas Control	Contains Proprietary Information
007 TR-0316-22048-P NSSS Advanced Sensor.pdf	Nuclear Steam Supply System Advanced Sensor	Contains Proprietary Information
008 TR-0816-49833-P Fuel Strg Rack Analysis.pdf	Fuel Storage Rack Analysis	Contains Proprietary Information
009 TR-1015-18177-P Prs and Temp Lmts Method.pdf	Pressure and Temperature Limits Methodology	Contains Proprietary Information
010 TR-1016-51669-P NPM Sht-Trm Trnsnt Anlys.pdf	NuScale Power Module Short-Term Transient Analysis	Contains Proprietary Information
<b>DVD #2</b>		
<b>File Name</b>	<b>Document Name</b>	<b>Classification</b>
001 TR-0816-50796-NP Loss of Large Areas.pdf	Loss of Large Areas Due to Explosions and Fires Assessment	Publicly Available
002 TR-0116-20781-NP Fluence Calc Methodology.pdf	Fluence Calculation Methodology and Results	Publicly Available
003 AF-1216-52427 Affidavit ISO TR-0116-20781.pdf	Affidavit of Thomas A Bergman	Publicly Available
004 TR-0616-49121-NP Instr Setpnt Methodology.pdf	NuScale Instrument Setpoint Methodology	Publicly Available
005 AF-1116-52128 Affidavit ISO TR-0616-49121.pdf	Affidavit of Thomas A Bergman	Publicly Available
006 TR-0816-50797-NP Extnd Loss of AC.pdf	Mitigation Strategies for Extended Loss of AC Power Event	Publicly Available
007 AF-1116-52090 Affidavit ISO TR-0816-50797.pdf	Affidavit of Thomas A Bergman	Publicly Available
008 TR-0716-50439-NP Comp Vib Asses Pgm.pdf	NuScale Comprehensive Vibration Assessment Program	Publicly Available
009 AF-1216-52280 Affidavit ISO TR-0716-50439.pdf	Affidavit of Thomas A Bergman	Publicly Available
010 TR-0716-50424-NP Combustible Gas Control.pdf	Combustible Gas Control	Publicly Available
011 AF- 1016-51701 Affidavit ISO TR-0716-50424.pdf	Affidavit of Thomas A Bergman	Publicly Available
012 TR-0316-22048-NP NSSS Advanced Sensor.pdf	Nuclear Steam Supply System Advanced Sensor	Publicly Available
013 AF-1116-52124 Affidavit ISO TR-0316-22048.pdf	Affidavit of Thomas A Bergman	Publicly Available
014 TR-0816-49833-NP Fuel Strg Rack Analysis.pdf	Fuel Storage Rack Analysis	Publicly Available
015 AF-1116-51947 Affidavit ISO TR-0816-49833.pdf	Affidavit of Thomas A Bergman	Publicly Available
016 TR-1015-18177-NP Prs and Temp Lmts Method.pdf	Pressure and Temperature Limits Methodology	Publicly Available
017 AF-1116-51839 Affidavit ISO TR-1015-18177.pdf	Affidavit of Thomas A Bergman	Publicly Available
018 TR-1016-51669-NP NPM Sht-Trm Trnsnt Anlys.pdf	NuScale Power Module Short-Term Transient Analysis	Publicly Available
019 AF-1216-52559 Affidavit ISO TR-1016-51669.pdf	Affidavit of Thomas A Bergman	Publicly Available
020 TR-1116-51962-NP Cont Vssl Intg Assur.pdf	NuScale Containment Vessel Integrity Assurance	Publicly Available
021 TR-1116-52065-NP Eff Release Mthdly.pdf	Effluent Release (GALE Replacement) Methodology and Results	Publicly Available
022 TR-1116-52011-NP TS Reg Conf and Dev.pdf	Technical Specifications Regulatory Conformance and Development	Publicly Available

**NuScale Power, LLC**