

November 16, 2015

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

FROM: Rocky D. Foster, Project Manager */RA/*  
Licensing Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: SUMMARY OF NOVEMBER 5, 2015, OPEN/CLOSED PUBLIC  
MEETING WITH NUSCALE POWER, LLC TO DISCUSS PHYSICAL  
SECURITY BY DESIGN (CAC# RN6110)

On November 5, 2015, a Category 1 open/closed public meeting was held at the NuScale Rockville, MD office between representatives of the U.S. Nuclear Regulatory Commission (NRC) staff and NuScale Power, LLC to discuss topics related to NuScale's small modular reactor (SMR) physical security by design. In particular, the discussion focused on NuScale's methodology to be used in addressing detailed physical security.

NuScale began the meeting with a brief background summary focusing on an overview of the SMR design features, site aerial views, module factory manufacturing, reactor module normal operation, regulatory requirements, and physical security by design involving operations, building and structural engineering, electrical and safety analysis including probabilistic risk assessment.

NuScale asked the NRC staff a number of questions with respect to Standard Review Plan (SRP) Section 13.6.2, to improve understanding of the guidance. Most questions were related to the level of detail and what needs to be included as information, along with Inspections, test, analyses and acceptance criteria (ITAAC) and applying Safeguards Information (SGI) requirements. NuScale also discussed the limitation of design certification in that, other than systems and hardware, there are no findings on administrative controls, and management systems or other elements of a security program (e.g., protecting against the design basis threat, staffing, etc.). NuScale indicated they had improved their understanding based on responses to their questions. The NRC staff indicated they would support any future pre-application interactions on physical security that may be needed.

CONTACT: Rocky D. Foster, NRO/DNRL/LB1  
(301) 415-5787

The NRC staff noted that, based on what was presented, the scope of the design certification, at this time, would be limited to only the nuclear island and control building. The NRC staff explained that regulations, and the SRP, are such that an applicant is not limited to only the nuclear island and structures but can choose to include in the scope of the design certification, the standard design for systems and hardware beyond the power block (e.g., protected area and owner controlled area).

NuScale stated that a physical security technical report would be submitted in conjunction with the design certification document for NRC staff review on the methodology and assumptions used to develop elements of a physical security system meeting the acceptance criteria of SRP Section 13.6.2.

At that time the meeting was closed to the public with NuScale providing a proprietary level presentation of the work NuScale had completed in the development of the technical information to support the proposed technical report. The discussion ended with an overall summary of the presentation and questions on submittal of NuScale's technical report.

The agenda and list of meeting attendees are included in Enclosures 1 and 2. The meeting notice is available in the Agencywide Documents Access and Management System (ADAMS) with Accession No. ML15288A515. The presentation slides are available in ADAMS with Accession No. ML ML15300A066. Please direct any inquiries to Rocky D. Foster at (301) 415-5787, or email at rocky.foster@nrc.gov.

ADAMS is the system that provides text and image files of NRC public documents and can be accessed at the NRC 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](mailto:pdr@nrc.gov).

Project No.: PROJ0769

Enclosures:

1. Meeting Agenda
2. Meeting Attendees

Cc: NuScale Power LLC Listserv

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**\*via email**

**NRC002**

<b>OFFICE</b>	NRO/DNRL/LB1:PM*	NRO/DNRL/LB1:LA*	NRO/DNRL/LB1:LPM*
<b>NAME</b>	RFoster	JMcLellan	GCranston
<b>DATE</b>	11/13/2015	11/13/2015	11/16/2015

**OFFICIAL RECORD COPY**

**MEETING AGENDA**

**NOVEMBER 5, 2015**

**TOPICS RELATED TO PHYSICAL SECURITY BY DESIGN**

<b>TIME</b>	<b>TOPIC</b>	<b>LEAD</b>
1:00 p.m. - 1:15 p.m.	Welcome and Introductions	All
1:15 p.m. - 1:30 p.m.	Meeting purpose and Overview of NuScale plant design	NRC/NuScale
1:30 p.m. - 2:00 p.m.	Part 1 – Physical security by design Overview non-proprietary version	NRC/NuScale
2:00 p.m. – 2:15 p.m.	Public comments, end of public session, Transition to closed meeting	All
2:15 p.m. – 3:00 p.m.	Part 2 – Physical security by design Proprietary version	NRC/NuScale
3:00 p.m. - 3:15 p.m.	Summarize and questions	NRC/NuScale

## MEETING ATTENDEES

<b>NAME</b>	<b>AFFILIATION</b>
Mark Tonacci	NRC
Peter Lee	NRC
Greg Schoenebeck	NRC
Gregory Cranston	NRC
Rocky Foster	NRC
Steve Mirsky	NuScale
Steve Pope	NuScale
Kevin Deyette	NuScale (Corvallis)
Tim Harney	NuScale (Corvallis)
Paul Kumar	NuScale (Corvallis)
Cyrus Afshar	NuScale (Corvallis)
John Bentz	NuScale (Corvallis)
G L Plumlee	NTD Consulting (Corvallis)
Pat Asendorf	TVA
Marc Nichol	NEI
Jana Bergman	Curtiss-Wright
Edwin Lyman	Union of Concerned Scientists