February 25, 2022 Docket No. 99902078

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 Presentation Materials Entitled "Follow up Discussion Regarding Changes to NuScale Operator Licensing Training Program Entry Requirements," PM-114472, Revision 0

NRC has requested a follow up meeting with the NuScale Power, LLC (NuScale) staff on March 23, 2022, to discuss changes to NuScale operator licensing training program entry requirements.

The purpose of this submittal is to provide presentation materials to the NRC for use during this meeting.

The enclosure to this letter is the nonproprietary version of the presentation entitled "Follow up Discussion Regarding Changes to NuScale Operator Licensing Training Program Entry Requirements."

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

If you have any questions, please contact Nadja Joegensen at 541-452-7338 or at njoergensen@nuscalepower.com

Sincerely,

Ross Snuggerud
Acting Director, Regulatory Affairs
NuScale Power, LLC

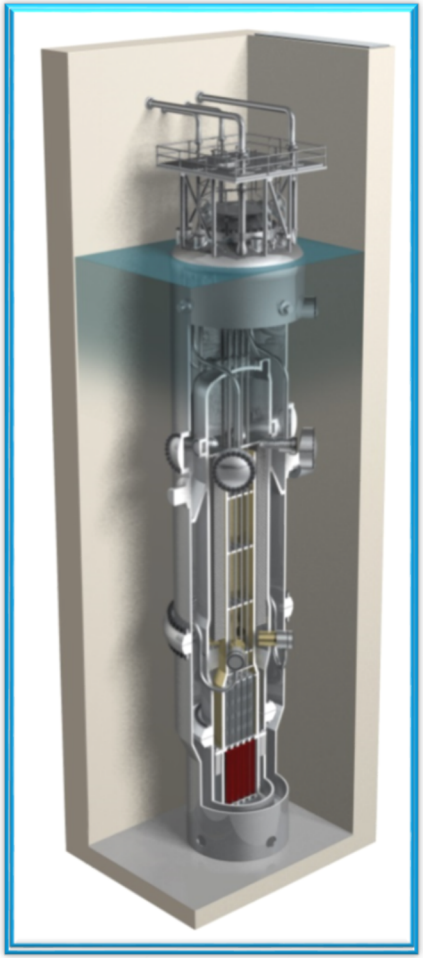
Distribution: Michael Dudek, NRC
Getachew Tesfaye, NRC
Lauren Nist, NRC

Enclosure: "Follow up Discussion Regarding Changes to NuScale Operator Licensing Training Program Entry Requirements," PM-114472, Revision 0

Enclosure:

"Follow up Discussion Regarding Changes to NuScale Operator Licensing Training Program Entry Requirements," PM-114472, Revision 0

NuScale Power, LLC
1100 NE Circle Blvd., Suite 200 Corvallis, Oregon 97330 Office 541.360-0500 Fax 541.207.3928
www.nuscalepower.com



Follow up Discussion Regarding Changes to NuScale Operator Licensing Training Program Entry Requirements

March 23, 2022

PM-114472
Revision:0

Copyright 2022 by NuScale Power, LLC.

Template #: 0000-21727-F01 R9

Presenters

Patrick Leary
Senior Reactor Operator

Doug Bowman
Supervisor, Plant Operations

Tim Tovar
Director, Plant Operations

Copyright 2022 by NuScale Power, LLC.

Purpose of Public Meeting

To continue discussion with NRC staff concerning development of NuScale operator training and licensing program guidance

- Continues discussion from November 9, 2021 public meeting (ML22010A101)
- Focus on proposed changes to SRO training program entry requirements

Copyright 2022 by NuScale Power, LLC.

Background

Licensed Operator Training Program entry requirements

- Previously, minimum education and experience requirements for entry were in numerous documents
  - NUREG-1021, Operator Licensing Examination Standards for Power
  - Regulatory Guide 1.8, Qualification and Training of Personnel for Nuclear Power Plants
  - ANSI/ANS-3.1-2014, Selection, Qualification, and Training of Personnel for Nuclear Power Plants
  - ACAD 10-001, Guidelines for Initial Training and Qualification of Licensed Operators
- NUREG-1021 revised to use ACAD 10-001 as the single location for these requirements
- NuScale change recommendations shared with INPO
  - provided as markup of ACAD 10-001, Revision 2

Copyright 2022 by NuScale Power, LLC.

New Sections and New Definitions

ACAD 10-001 Markup

- Addition of standalone sections for advanced design passively-cooled reactors (ADPCR)
  - Definitions section
    - Advanced Design Passively Cooled Reactors (ADPCR)
- Minimum previous education and/or experience requirements for eligibility to enter a license operator training program
- RO and SRO ADPCR training and qualification program description for:
  - hot license
  - cold license

Copyright 2022 by NuScale Power, LLC.

Senior Reactor Operator Program Entry Requirements

Current eligibility to enter a training program comes from 4 different categories

1. RO upgrade candidates
2. RO experience at other commercial or military reactors
3. Engineering degree (or equivalent) plus responsible nuclear power plant experience
4. Certified SRO Instructors

Copyright 2022 by NuScale Power, LLC.

Senior Reactor Operator Program Entry Requirements

NuScale recommends changes to the degreed personnel requirements:

- From engineering degree to technical degree

Background

- Engineering program content vary widely from university to university
- Technical degree provides a solid foundation in the engineering discipline, so it is a suitable prerequisite for entering the training program
- Engineering expertise essential to SRO role at each site is part of their SRO training program
  - (from NUREG-0737, TMI Action Plan Requirements)

Copyright 2022 by NuScale Power, LLC.

Direct SRO—College Education Path

The paths for ADPCR SRO eligibility stays consistent with the desire for control room crews to include a mix of education and experience backgrounds:

- The minimum education path change opens the pipeline for graduates of technical training college programs that are also a good fit to nuclear power plant staffing needs
- Retaining the other paths maintains the diversity

Copyright 2022 by NuScale Power, LLC.

Direct SRO—College Education Path

SROs licensed for ADPCR with the proposed changes remain comparable to existing fleet standards:

- Engineering expertise essential to an SRO role is provided in the SRO training program – for both existing fleet and ADPCRs
- Previous experience paths closely match or align to existing fleet requirements

All license candidates still only become licensed after successfully completing their training program and passing an NRC Operator License Exam

Copyright 2022 by NuScale Power, LLC.

Questions?

Copyright 2022 by NuScale Power, LLC.

Abbreviations and Acronyms

ACAD	National Academy for Nuclear Training Academy document
ADPCR	advance design passively-cooled reactor
ANS	American National Standards
ANSI	American National Standards Institute
CFR	Code of Federal Regulations
COL	combined license
CTF	centralized training facility
INPO	Institute of Nuclear Power Operations
NANT	National Academy for Nuclear Training
RO	reactor operator
SAT	systematic approach to training
SRO	senior reactor operator

Copyright 2022 by NuScale Power, LLC.

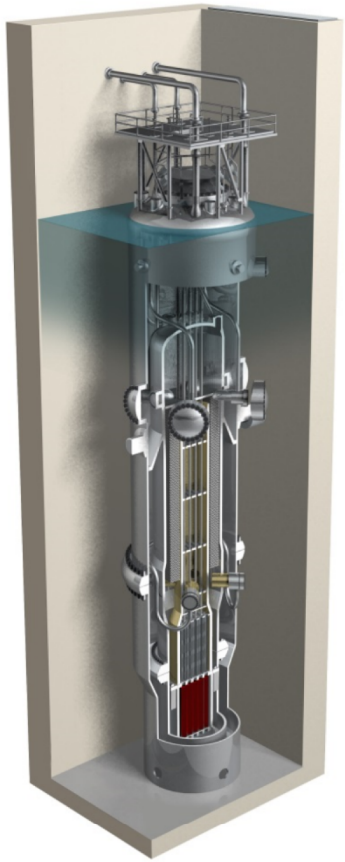
Portland Office
6650 SW Redwood Lane,
Suite 210
Portland, OR 97224
971.371.1592

Corvallis Office
1100 NE Circle Blvd., Suite 200
Corvallis, OR 97330
541.360.0500

Rockville Office
11333 Woodglen Ave., Suite 205
Rockville, MD 20852
301.770.0472

Richland Office
1933 Jadwin Ave., Suite 130
Richland, WA 99354
541.360.0500

Charlotte Office
2815 Coliseum Centre Drive,
Suite 230
Charlotte, NC 28217
980.349.4804



http://www.nuscalepower.com
Twitter: @NuScale_Power

NUSCALE™
Power for all humankind

Copyright 2022 by NuScale Power, LLC.