

February 20, 2023

Docket No. 99902052

U.S. Nuclear Regulatory Commission
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SUBJECT: NuScale Power, LLC Submittal on Behalf of CFPP LLC Carbon Free Power Project (CFPP) Combined License Application (COLA) Entitled "Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation Emergency Response Organization Staffing for a Site Boundary Emergency Planning Zone (Open Session)," PM-134995-NP, Revision 0

NuScale Power, LLC (NuScale) has requested a pre-submittal meeting with the NRC technical staff on March 2, 2023, to discuss the Methodology for Establishing Emergency Response Organization Staffing for a Site Boundary Emergency Planning Zone Topical Report.

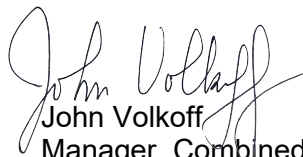
The purpose of this submittal is to provide presentation materials to the NRC for use during this meeting.

Enclosure 1 is the nonproprietary version of the presentation entitled "Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation Emergency Response Organization Staffing for a Site Boundary Emergency Planning Zone (Open Session)," PM-134995-NP, Revision 0. The proprietary version is provided in a separate submittal, under letter number LO-135002.

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

If you have any questions, please contact Kyra Perkins at 980-349-4117 or at kperkins@nuscalepower.com.

Sincerely,



John Volkoff
Manager, Combined License Applications
NuScale Power, LLC
COLA Support on behalf of CFPP LLC

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Enclosure 1: "Carbon Free Power Project (CFPP) Combined License Application (COLA)
Presentation Emergency Response Organization Staffing for a Site Boundary
Emergency Planning Zone (Open Session)," PM-134995-NP, Revision 0



LO-134999

Enclosure 1:

“Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation
Emergency Response Organization Staffing for a Site Boundary Emergency Planning Zone
(Open Session),” PM-134995-NP, Revision 0

Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation



Emergency Response Organization Staffing for a Site Boundary Emergency Planning Zone (Open Session)

March 2, 2023

CFPP Team

Leadership

Scott Head
Regulatory Affairs Manager
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Glenn Neises
CFPP Owner's Engineer
Nuclear Director
Burns & McDonnell

Ken Rach
CFPP Owner's Engineer
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COLA Project Manager
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Licensing

John Volkoff
Manager,
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Licensing Engineer 4
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Technical Experts

Kevin Deyette (Presenter)
Program Manager,
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Bob Sandford (Presenter)
Emergency Preparedness
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Agenda

- **Purpose**
- **Emergency Response Organization (ERO) Methodology**
 - Overview
 - Section Development
- **Questions**

Purpose

- Inform the NRC staff of the staffing assumptions for the on-site ERO Topical Report.
- Provide a standard methodology to be used by future NuScale Power Plant (NPP) US460 licensees to meet the requirement of 10 CFR 50.47(b)(2) and draft 10 CFR 50.160(b)(1)(iii)(E).
- Receive NRC feedback on methodology and discuss any technical issues.

ERO Methodology Overview

- The on-site ERO methodology for a NPP US460 provides a framework for on-shift staff to perform all required functions and tasks necessary to respond to a declared emergency.
- ERO methodology utilizes guidance in:
 - NSIR/DPR-ISG-01, “Emergency Planning for Nuclear Power Plants”
 - NEI 10-05, “Assessment of On-shift Emergency Response Organization Staffing and Capabilities
 - NUREG-0654/FEMA-REP-1, Rev.2, Table B-1 “Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness”

ERO Methodology Development

- On-Shift Staffing Analysis Inputs
- Analyzed Events
- On-Shift Positions
- Plant Operations and Safe Shutdown
- Firefighting
- Radiation Protection
- Emergency Plan Implementation
- NuScale Proposed ERO Staffing

Questions?

Acronyms

CFPP	Carbon Free Power Project
CFR	Code of Federal Regulations
COLA	Combined License Application
EPZ	Plume Exposure Emergency Planning Zone
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Administration
NEI	Nuclear Energy Institute
NPP	NuScale Power Plant
NRC	Nuclear Regulatory Commission
NSIR	Nuclear Security and Incident Response
RP	Report
US460	United States 460MW design