

April 18, 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) Presentation Entitled "Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation, CFPP Early Construction Update (Open Session)," PM-138484-NP, Revision 0

NuScale Power, LLC (NuScale) on behalf of CFPP LLC requested a meeting with the NRC technical staff on April 20, 2023, to discuss updated strategy and information related to the CFPP LWA request planned to be submitted in July 2023.

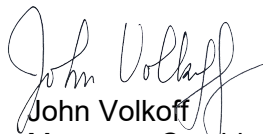
The purpose of this submittal is to provide presentation materials to the Nuclear Regulatory Commission (NRC) staff for use during this meeting. This presentation will be an update of the intended LWA application content specific to the safety analysis portion as required by 10 CFR 50.10(d)(3)(i).

A copy of the "Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation, CFPP Early Construction Update (Open Session)," PM-138484-NP, Revision 0 is enclosed.

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

If you have any questions, please contact Kyra Perkins at 541-452-7208 or at kperkins@nuscalepower.com.

Sincerely,



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

Distribution: Michael Dudek, NRC
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Enclosure 1: "Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation, CFPP Early Construction Update (Open Session)," PM-138484-NP, Revision 0, nonproprietary version



LO-138485

Enclosure 1:

“Carbon Free Power Project (CFPP) Combined License Application (COLA) Presentation, CFPP Early Construction Update (Open Session),” PM-138484-NP, Revision 0, nonproprietary version

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



CFPP Early Construction Update (Open Session)

April 20, 2023

PM-138484-NP
Revision: 0

NuScale Nonproprietary

CFPP
CARBON FREE
POWER PROJECT
FM-131022-R0

CFPP Team

Leadership

Glenn Neises
*CFPP Owner's Engineer
Nuclear Director
Burns & McDonnell*

Scott Head
*Regulatory Affairs Manager
CFPP*

Mike Boyd
*CFPP Engineering Manager
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*COLA Project Manager
Fluor*

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*Director Nuclear Fleet Operations
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Licensing

Matthew Featherston
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Agenda

- Purpose
- Desired Outcome
- Background
- Approach to Facilitate Early Construction
- LWA Safety Analysis Level of Detail
- Summary
- Questions

Purpose

- Describe the intended approach to submit safety analysis information for the Limited Work Authorization (LWA) application which meets 10 CFR 50.10(d)(3)(i)
- Provide an overview of the work to be performed and how it will be described in a safety analysis report

Desired Outcome

- NRC understanding of the content of the CFPP LWA request safety analysis conclusions in regard to the limited scope construction activities and bounding assumptions
- NRC provide feedback on approach describing LWA activities in the safety analysis to be submitted

Background

- Pre-application meeting held January 26th, 2023
- Readiness assessment for the LWA Environmental Report began March 20, 2023 and will continue through the end May 2023
- CFPP Regulatory Engagement Plan for Early Construction submitted March 22, 2023 (ML23081A094)

Approach to Facilitate Early Construction

- Pre-construction Activities to be authorized by the DOE
- Exemption request for Reactor Building (RXB) and Radioactive Waste Building (RWB) excavation shoring
- LWA request involving the following activities:
 - RXB/RWB soft/fractured rock remediation to include appropriate over-excavation and placement of one or more of the following:
 - » Granular backfill
 - » Interstitial grouting of sound, slightly fractured rock
 - » Low strength concrete / flowable fill
 - RXB mud mat (including vapor barrier)
 - Installation of RXB basemat components (rebar, embeds, etc.) up to but not including concrete placement

LWA Safety Analysis Level of Detail

- LWA application is the first phase of the of the COLA
- Describe the bounding assumptions and relevant supporting information that the site characteristics are bounded by the SDAA site parameters
 - Site characterization elements presented in the LWA application will demonstrate high confidence of safety conclusions
 - COLA analysis will include full site characterization data and analysis
- Reference the applicable sections of the SDAA, for the scope of construction activities in accordance with 10 CFR 50.10(d)
- Site suitability determination (per 10 CFR 100) is not an element of an LWA

Summary

- The safety analysis report will demonstrate activities conducted under the limited work authorization will be conducted in compliance with the requirements in 10 CFR Chapter I within the scope of the limited work authorization
- The LWA safety analysis level of detail to be discussed in closed session

Questions



Acronyms

CFPP	Carbon Free Power Project
COL	Combined License
COLA	Combined License Application
LWA	Limited Work Authorization
NRC	Nuclear Regulatory Commission
SDA	Standard Design Approval
SDAA	Standard Design Approval Application
RWB	Radioactive Waste Building
RXB	Reactor Building