



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 20, 2018

MEMORANDUM TO: Samuel S. Lee, Chief
Licensing Branch 1
Division of Licensing, Siting, and
Environmental Analysis
Office of New Reactors

FROM: Demetrius Murray, Project Manager */RA/*
Licensing Branch 1
Division of Licensing, Siting, and
Environmental Analysis
Office of New Reactors

SUBJECT: SUMMARY OF THE JANUARY 31, 2018, CATEGORY 1 PUBLIC
TELECONFERENCE WITH NUSCALE POWER, LLC IN
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
9122 RELATED TO NUSCALE STANDARD DESIGN
CERTIFICATION 10.04.07 - CONDENSATE AND FEEDWATER
SYSTEM APPLICATION SECTION: 10.4.7 – QUESTION 10.4.7-1

The U.S. Nuclear Regulatory Commission (NRC) staff held a Category 1 public teleconference with NuScale Power, LLC (NuScale) on January 31, 2018, to discuss NuScale's response to Request for Additional Information (RAI) No. 9122 Question 10.04.07 "Condensate and Feedwater System Application." Participants included personnel from NuScale and a members of the public.

The public meeting notice can be found in the Agencywide Documents Access and Management Systems under Accession No. ML18026A564. This meeting notice was also posted on the NRC public website.

The meeting agenda and list of participants can be found in Enclosures 1 and 2, respectively. The technical issues discussed are included in Enclosure 3.

CONTACT: Demetrius Murray, NRO/DLSE
301-415-7646

SUMMARY:

The purpose of this teleconference was to discuss the response to RAI 9122. The comments presented by the NRC staff (Enclosure 3) for Response will be addressed by an upcoming Design Certification Application (DCA) change and NuScale supplementing the RAI response.

No comments from members of the public were received.

Docket No. 52-048

Enclosure:

1. Meeting Agenda
2. List of Attendees
3. Comments presented by NRC staff

cc: w/encls.: DC NuScale Power LLC Listserv

SUBJECT: SUMMARY OF THE JANUARY 31, 2018, CATEGORY 1 PUBLIC TELECONFERENCE WITH NUSCALE POWER, LLC IN RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION 9122 RELATED TO NUSCALE STANDARD DESIGN CERTIFICATION 10.04.07 - CONDENSATE AND FEEDWATER SYSTEM APPLICATION SECTION: 10.4.7 - QUESTIONS 10.4.7-1.

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U.S. NUCLEAR REGULATORY COMMISSION

CATEGORY 1 PUBLIC TELECONFERENCE

**TO DISCUSS NUSCALE POWER, LLC'S DESIGN CERTIFICATION APPLICATION
REQUEST FOR ADDITIONAL INFORMATION 9122 RESPONSE, RELATED TO NUSCALE
STANDARD DESIGN CERTIFICATION - 52-048 - 10.04.07 - CONDENSATE AND
FEEDWATER SYSTEM APPLICATION SECTION: 10.4.7**

January 31, 2018

1:00 p.m. – 3:00 p.m.

AGENDA

Public meeting	
1:00 – 1:10 pm	Introductions
1:10 – 1:50 pm	Discussion of RAI 9122
1:50 – 2:00 pm	Public comments

U.S. NUCLEAR REGULATORY COMMISSION

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FEEDWATER SYSTEM APPLICATION SECTION: 10.4.7**

List of Attendees

January 31, 2018

NAME	AFFLIATION
Demetrius Murray	U.S. Nuclear Regulatory Commission (NRC)
Angelo Stubbs	NRC
Antonio Dia	NRC
Carrie Fosaaen	NuScale Power, LLC (NuScale)
Mark Chitty	NuScale
Dustin Greenwood	NuScale
Gary Becker	NuScale
Lisa Davies	NuScale
Bob Bromm	NuScale
Ryan Welch	Public

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CATEGORY 1 PUBLIC TELECONFERENCE

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STANDARD DESIGN CERTIFICATION - 52-048 - 10.04.07 - CONDENSATE AND
FEEDWATER SYSTEM APPLICATION SECTION: 10.4.7

January 31, 2018

General Comments

1. Question 10.4.7-1 requested condensate and feedwater system piping and instrumentation diagram (P&ID) be provided and included in the NuScale final safety analysis report (FSAR). In its response the applicant did not include the requested P&ID instead revised power cycle block diagram FSAR Figure 10.1-1.
 - a. NuScale Power, LLC (NuScale) would provide a simplified system diagram of the condensate feed water system that will be available at the NuScale Rockville, Maryland, office for audit.
2. Question 10.4.7-1 requested information on condensate and feedwater system (CFWS) inspection and testing after the nuclear plant module (NPM) is reinstalled in its bay and connected back to the CFWS system after refueling is completed. In its response to the question the applicant states that the CFWS is outside the scope of general design criteria (GDC) 45 and 46, and propose removing what they consider "erroneous language from the FSAR." The U.S. Nuclear Regulatory Commission staff disagrees with the applicant conclusion that GDC 45 and 46 is not applicable.
 - a. NuScale's assertion that GDC 45 and 46 are not applicable, because the CFWS contains SSCs that are part of the DHRS boundary. There would be no change to their RAI response.
3. Question 10.4.7-3 requested the applicant propose a combined operating license (COL) item to provide operating and maintenance procedures to address water hammer issues for the CFWS. The applicant response did not include the addition of the requested COL item. The COL items should have applicant provide procedures in accordance with NUREG-0927 as was done in APR 1400 DCD COL Item 10.4(8), and USAPWR DCD COL item 10.4(6).
 - a. NuScale stated that FSAR Tier 2, Section 3.6.3.1.4 indicates that "The feedwater system (FWS) and steam generator (SG) contain design features that minimize the potential for and effect of water hammer." There would be no change to their RAI response.