

NuScaleDCRaisPEm Resource

From: Cranston, Gregory
Sent: Sunday, July 30, 2017 8:59 AM
To: RAI@nuscalepower.com
Cc: NuScaleDCRaisPEm Resource; Lee, Samuel; Chowdhury, Prosanta; Cintron-Rivera, Jorge; Vera Amadiz, Marieliz; Martinez Navedo, Tania
Subject: RE: Request for Additional Information No. 114, RAI 9015 (3.11)
Attachments: Request for Additional Information No. 114 (eRAI No. 9015).pdf

Attached please find NRC staff's request for additional information concerning review of the NuScale Design Certification Application.

Please submit your technically correct and complete response within 60 days of the date of this RAI to the NRC Document Control Desk.

If you have any questions, please contact me.

Thank you.

Gregory Cranston, Senior Project Manager
Licensing Branch 1 (NuScale)
Division of New Reactor Licensing
Office of New Reactors
U.S. Nuclear Regulatory Commission
301-415-0546

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From: Cranston, Gregory

Created By: Gregory.Cranston@nrc.gov

Recipients:

"NuScaleDCRaisPEm Resource" <NuScaleDCRaisPEm.Resource@nrc.gov>
Tracking Status: None
"Lee, Samuel" <Samuel.Lee@nrc.gov>
Tracking Status: None
"Chowdhury, Prosanta" <Prosanta.Chowdhury@nrc.gov>
Tracking Status: None
"Cintron-Rivera, Jorge" <Jorge.Cintron@nrc.gov>
Tracking Status: None
"Vera Amadiz, Marieliz" <Marieliz.VeraAmadiz@nrc.gov>
Tracking Status: None
"Martinez Navedo, Tania" <Tania.MartinezNavedo@nrc.gov>
Tracking Status: None
"RAI@nuscalepower.com" <RAI@nuscalepower.com>
Tracking Status: None

Post Office: HQPWMSMRS07.nrc.gov

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Request for Additional Information No. 114 (eRAI No. 9015)

Issue Date: 07/30/2017

Application Title: NuScale Standard Design Certification - 52-048

Operating Company: NuScale Power, LLC

Docket No. 52-048

Review Section: 03.11 - Environmental Qualification of Mechanical and Electrical Equipment

Application Section:

QUESTIONS

03.11-16

On FSAR, Tier 2, Section 3.11.1.2 the applicant states that the environmental parameters that will be considered for environmental qualification are radiation, temperature, chemical effects, humidity from steam, pressure, wetting, submergence. FSAR, Tier 2, Section 3.11.5.1, states that "applicable chemical environments are defined in [FSAR Tier 2] Appendix 3.C for normal and abnormal operating conditions. The chemical environment from the most limiting design basis event is also considered in the qualification of the equipment and presented in [FSAR Tier 2] Appendix 3.C."

QUESTION:

The staff reviewed FSAR Tier 2 Appendix 3.C to verify the information with regards to the chemical environment. The staff was not able to identify the chemical parameters such as pH and boron concentration during a DBA in FSAR Tier 2 Appendix 3.C. Please clarify where the information is located with regards to qualification for chemical parameters/environments. Otherwise, please incorporate the information as specified in the FSAR.