

NuScaleDCDocsPEm Resource

From: Chowdhury, Prosanta
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To: NuScaleDCDocsPEm Resource
Subject: Feedback on NuScale Response to RAI 9186 and Changes to FSAR Tier 1 and Tier 2 .pdf
Attachments: Feedback on NuScale Response to RAI 9186 and Changes to FSAR Tier 1 and Tier 2 .pdf

For discussion at Category 1 public meeting with NuScale on Tuesday, June 26, 2018, 1:00 p.m. – 2:00 p.m. Eastern Daylight Time.

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**U.S. NRC STAFF FEEDBACK ON NUSCALE'S RESPONSE TO RAI 9186 AND
CHANGES TO TIER 1 AND TIER 2 OF THE NUSCALE
FINAL SAFETY ANALYSIS REPORT (NUSCALE LETTER NO. LO-0518-60103;
MAY 25, 2018) (ADAMS PACKAGE ML18149A402)**

Question 02.03.01-6

b. The RAI response states site parameters that represent a zero percent exceedance value are based on historical limits excluding peaks less than 2 hours of duration. Consider the following change to Tier 2, Table 9.4.1-1 to provide additional clarification:

1. **Table 9.4.1-1: **Table 9.4.1-1 dry-bulb and non-coincident wet-bulb temperatures are zero percent exceedance values (historical limits excluding peaks <2 hours)* – Proposed change to Rev. 1 is only partial (i.e., only incorporates parenthetical statement) but does not make necessary distinction that this applies only to dry-bulb and non-coincident wet-bulb temperatures and not the coincident wet bulb temperatures. Proposed change is inconsistent with Applicant's response to Question 02.03.01-6(c) stating that the coincident wet-bulb temperature represents the mean of values that occurred coincident with the indicated dry-bulb temperature. That statement was incorporated in Section 2.3.1 (Para. 5) between Rev. 0 and Rev. 1.**

c. The RAI response states the coincident wet-bulb temperature value represents the mean of the collected wet bulb temperatures that occurred coincident with the indicated dry-bulb temperature. Consider the following changes to provide additional clarification:

1. **Table 2.0-1 (in 3 places): *Maximum-Mean coincident wet bulb temperature* – Change not made. Uncorrected, this represents a different statistic and is inconsistent with Applicant's response to Question 02.03.01-6(c) and the statement incorporated in Section 2.3.1 (Para. 5) of Rev. 1 that coincident wet-bulb temperature represents the mean of values that occurred coincident with the indicated dry-bulb temperature. Further, consider reorganizing tables in Items (c)(1) to (c)(5) to either list maximum dry-bulb and coincident wet-bulb temperatures as a pair of related values or place the coincident wet-bulb temperature below and indented from the maximum dry-bulb temperature. Follow by non-coincident wet-bulb temperature and minimum dry-bulb temperature.**
2. **Table 9.4.1-1: *Maximum-Mean coincident design wet bulb temperature* – Change not made designating coincident wet-bulb temperature as mean rather than maximum value. See note at Item (c)(1). However, term "design" included as a proposed change.**
3. **Table 9.4.2-1: *Maximum-Mean coincident design wet bulb temperature* – Change not made. See note at Item (c)(1).**
4. **Table 9.4.3-1: *Maximum-Mean coincident design wet bulb temperature* – Change not made. See note at Item (c)(1).**
5. **Table 9.4.4-1: *Maximum-Mean coincident design wet bulb temperature* – Change not made. See note at Item (c)(1).**

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General

Consider the following additional other clarifications and corrections:

- a. Correct marginal association of revisions to various RAIs:
 5. **Tier 2, Tables 9.2.7-1, 9.4.2-1, 9.4.3-1, 9.4.4-1, and 10.4-9.** Change RAI 02.03.01-7 to RAI 02.03.01-8. – **OK.** **Included as proposed changes to Rev. 1 with one exception.** **Change not made to Tier 2, Table 10.4-9.**
- b. **New item.** **Section 2.3.1 (Para 5).** Change “Pertinent zero-, one-, and five-percent exceedance values” to read “Pertinent zero-percent, and one- and five-percent annual exceedance values”.