

ClinchRiverESPHFNPEm Resource

From: Schiele, Raymond Joseph <rjschiele@tva.gov>
Sent: Wednesday, February 14, 2018 4:12 PM
To: Sutton, Mallecia
Cc: Stout, Daniel Paul; Young, Michael Stephen Alexander; Montague, Kelvin Jevon; Holcomb, John Michael
Subject: [External_Sender] FW: Clinch River: Met Question on Vector WD and Scalar WS

Mallecia,

In response to your email below, TVA has reviewed SSAR Table 1.9-1 and 1.9-2 and has confirmed TVA's commitments associated with RG 1.23. As noted in the background provided below, "Section 5.3.1 of ANSI/ANS-3.11-2005 states that the transport wind direction for straight-line Gaussian models **should** be based on the scalar mean (or unit vector) wind direction." Section 2 of ANSI/ANS-3.11-2005 states, "the word "should" is used to denote a recommendation." The use of scalar mean (or unit vector) wind direction for the transport wind direction for straight-line Gaussian models is a recommendation and not a requirement. Therefore, TVA conforms to RG 1.23 (and by extension Section 5.3.1 of ANSI/ANS 3.11-2005) and the referenced section under SRP Section 2.3. However, TVA recognizes the aforementioned ANSI/ANS 3.11-2005 recommendation and is evaluating our use of vector wind computations versus scalar wind computation for wind direction. TVA will provide a voluntary submittal to the NRC describing the results of its evaluation within 30 days.

Please contact me if any additional information is required.

Thanks
Ray

From: Sutton, Mallecia [<mailto:Mallecia.Sutton@nrc.gov>]
Sent: Tuesday, February 13, 2018 4:31 PM
To: Schiele, Raymond Joseph
Subject: Clinch River: Met Question on Vector WD and Scalar WS

TVA External Message. Please use caution when opening.

Ray,

Please confirm TVA's commitments in SSAR Tables 1.9-1 and 1.9-2 to conform to RG 1.23 (and by extension Section 5.3.1 of ANSI/ANS 3.11-2005) and the referenced sections under SRP Section 2.3.

Background:

Site Safety Analysis Report (SSAR) Table 1.9-1 (Sheet 1 of 9) states that SSAR Sections 2.3.1 through 2.3.5 conform to Regulatory Guide (RG) 1.23 (Meteorological Monitoring Programs for Nuclear Power Plants). Further, SSAR Table 1.9-2 (Sheet 1 of 6) states that the application also conforms to corresponding Standard Review Plan (SRP) Sections 2.3.1 through 2.3.5.

SRP Section 2.3.3, Onsite Meteorological Measurements Program, Acceptance Criterion 1 (last paragraph) under Subsection II (Acceptance Criteria) states that “[g]uidance on a suitable onsite meteorological monitoring program to provide the required meteorological data is presented in Regulatory Guide [RG] 1.23.”

RG 1.23, Section B (Discussion), Paragraph 5, specifically references American National Standards Institute / American Nuclear Society (ANSI/ANS) 3.11-2005 (Determining Meteorological Information at Nuclear Facilities) with respect to best practices for onsite meteorological measurements programs at commercial nuclear power plants.

Section 5.3.1 of ANSI/ANS-3.11-2005 states that the transport wind direction for straight-line Gaussian models should be based on the scalar mean (or unit vector) wind direction.

Thanks
Mallecia
Mallecia Sutton
Project Manager
NRO/DNRL/LB3
U.S. Nuclear Regulatory Commission
301-415-0673

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Subject: [External_Sender] FW: Clinch River: Met Question on Vector WD and Scalar WS
Sent Date: 2/14/2018 4:11:35 PM
Received Date: 2/14/2018 4:13:11 PM
From: Schiele, Raymond Joseph

Created By: rjschiele@tva.gov

Recipients:

"Stout, Daniel Paul" <dpstout@tva.gov>
Tracking Status: None
"Young, Michael Stephen Alexander" <msyoung@tva.gov>
Tracking Status: None
"Montague, Kelvin Jevon" <kjmontague@tva.gov>
Tracking Status: None
"Holcomb, John Michael" <jmholcomb@tva.gov>
Tracking Status: None
"Sutton, Mallecia" <Mallecia.Sutton@nrc.gov>
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MESSAGE	2957	2/14/2018 4:13:11 PM

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