

PSEGSPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Friday, August 12, 2011 4:08 PM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGSPeRAIPEm Resource; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Colaccino, Joseph; Silvia, Andrea; Clark, Phyllis; McLellan, Judith; Quinlan, Kevin; Schaaf, Robert; Ford, Tanya
Subject: PSEG Site ESPA FINAL RAI 33 (eRAI 5843) SRP-02.03.01 (RSAC)
Attachments: PSEG Site ESPA Final RAI 33 (eRAI 5843).pdf

Please find attached RAI 33 for the PSEG Site ESP Application. A draft of the RAI was provided to you on August 2, 2011. On August 10, 2011, you informed via email that you needed to verify if information in Draft RAI 33, Question 02.03.01-6, was previously requested in, but subsequently deleted from, the last paragraph of Question 02.03.01-5 of REVISED Draft RAI 14 (ML110970089). On August 11, 2011, in a telecon, the staff clarified to your satisfaction that RAI 33, Question 2.3.1-6, is requesting inclusion in SSAR Table 2.0-1 of a 100-year return period coincident wet-bulb temperature that was not included in response to RAI 14, Question 2.3.1-4. Following the discussion, you informed via email on August 11, 2011, that you would not need further clarification involving this specific RAI. Since the discussion on August 11, 2011, we further emphasized the link of RAI 33 to RAI 14 by adding the phrase "Follow up to RAI 14 (eRAI 5483), Question 02.03.01-4" at the beginning of RAI 33, Question 02.03.01-6; no other changes were made to this RAI, and we are issuing it as final.

The schedule we have established for review of your application assumes technically correct and complete responses within 30 calendar days of receipt of RAIs. For any RAIs that cannot be responded to within 30 calendar days, it is expected that a date for receipt of this information will be provided to the staff within the 30-calendar day period so that the staff can assess how this information will impact the published schedule.

If you have any questions, please contact me.

Prosanta Chowdhury
Project Manager
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors
301-415-1647

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Subject: PSEG Site ESPA FINAL RAI 33 (eRAI 5843) SRP-02.03.01 (RSAC)
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From: Chowdhury, Prosanta

Created By: Prosanta.Chowdhury@nrc.gov

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PSEG Site ESPA Final RAI 33 (eRAI 5843).pdf		10617

Options

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Request for Additional Information No. 33

Application Revision 0

FINAL

8/12/2011

PSEG Site ESP
PSEG Power LLC, PSEG Nuclear LLC
Docket No. 52-043
SRP Section: 02.03.01 - Regional Climatology
Application Section: Regional Climatology

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.01-6

Follow up to RAI 14 (eRAI 5483), Question 02.03.01-4: 10 CFR 52.17(a)(1)(vi) states, in part, that ESP applicants must identify the meteorological characteristics of the proposed site with appropriate consideration of the most severe of the natural phenomena that have been historically reported for the site and surrounding area and with sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated. Temperatures based on a 100-year return period are considered to provide sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated as required by the regulation. The PSEG Site ESP ambient air temperature and humidity site characteristic values should include both historic extreme and 100-year return period values for comparison with the DCD 0% exceedance air temperature and humidity site parameter values at the COL stage.

In RAI 14, Question 02.03.01-4 (ML111040109), the staff requested that SSAR Table 2.0-1 be expanded to include site characteristic values that correspond to the ambient air temperature and humidity site parameter values contained in the design control documents (DCDs) for the reactor designs that are referenced in SSAR Section 1.2.2 (i.e., the U.S. EPR, ABWR, US-APWR, and AP1000 reactor designs). In a May 13, 2011, response to this RAI (ML11136A236), SSAR Table 2.0-1 was updated to include additional site characteristic temperatures. However, the updated SSAR Table 2.0-1 did not include a 100-year return period mean coincident wet-bulb temperature.

Please update the SSAR to include a 100-year return period mean coincident wet-bulb temperature that corresponds with the 100-year return period dry bulb temperature, or provide justification as to why this is not necessary.