PSEGESPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Friday, March 11, 2011 9:07 AM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGESPeRAIPEm Resource; 'David.Lewis2@pseg.com'; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Colaccino, Joseph; Silvia, Andrea; Clark, Phyllis; McLellan, Judith; Quinlan, Kevin; Schaaf, Robert
Subject: PSEG Site ESPA FINAL RAI 15 (eRAI 5485) SRP-02.03.02 (RSAC)
Attachments: PSEG Site ESPA Final RAI 15 (eRAI 5485).pdf

Please find attached RAI 15 for the PSEG Site ESP Application. A draft of the RAI was provided to you on March 01, 2011. At your request, a clarification discussion on all questions (for DRAFT RAI 15) was held on March 10, 2011. As a result of the discussion, we understand that you have no further questions on this specific RAI, and therefore, we are issuing this RAI as final with no changes made to it.

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 15 (eRAI 5485) SRP-02.03.02 (RSAC)
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From: Chowdhury, Prosanta

Created By: Prosanta.Chowdhury@nrc.gov

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Request for Additional Information No. 15
Application Revision 0

FINAL

3/11/2011

PSEG Site ESP
PSEG Power LLC, PSEG Nuclear LLC
Docket No. 52-043
SRP Section: 02.03.02 - Local Meteorology
Application Section: Local Meteorology

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.02-1

10 CFR 52.17(a) requires that the application contain a description of the seismic, meteorological, hydrological, and geological characteristics of the proposed site. NUREG-0800, Section 2.3.2 provides guidance on how to meet the relevant requirements of the NRC's regulations for the review of local meteorology. Regulatory Guide 1.23, Revision 1 states that vertical temperature difference (ΔT) should be measured on the same open-lattice tower or mast as wind speed and wind direction between the 10-meter (33-foot) level and 60-meter (197-foot) levels and, if necessary, between the 10-meter (33-foot) level and a higher level that is representative of diffusion conditions from release points that are 85 meters (279 feet) or higher.

PSEG ESP Application SSAR Section 2.3.2.2.2 states that atmospheric stability class was based on the onsite meteorological tower 150-33 ft (45-10 m) ΔT.

1. Please explain in the PSEG ESP Application SSAR why the stability classes were determined by using the temperature difference between the 45 meter and 10 meter observations levels, instead of the difference between the 90 meter and 10 meter observation levels.

2. Explain how this change to the stability class calculations may affect the χ/Q values presented in SSAR Sections 2.3.4 and 2.3.5.