PSEGESPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Tuesday, March 01, 2011 2:50 PM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGESP Resource; PSEGESPeRAIPEm Resource; 'David.Lewis2@pseg.com'; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Colaccino, Joseph; Silvia, Andrea; Clark, Phyllis; McLellan, Judith; Quinlan, Kevin; Brown, David
Subject: PSEG Site ESPA DRAFT RAI 15 (eRAI 5485) SRP-02.03.02 (RSAC)
Attachments: PSEG Site ESPA Draft RAI 15 (eRAI 5485).doc

Please find attached DRAFT RAI No. 15 for the PSEG Site ESP application. You have ten working days to review this request and to decide whether you need a conference call to discuss it. Please notify me of your decision in this regard.

After the call, or after ten days, the RAI will be finalized and issued to you. You will then have 30 calendar days to respond. These durations are factored into your review schedule. If additional time is required to respond, please inform me of your proposed schedule to respond at your earliest opportunity.

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

Hearing Identifier: PSEG_Site_EarlySitePermit_RAI
Email Number: 28

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Subject: PSEG Site ESPA DRAFT RAI 15 (eRAI 5485) SRP-02.03.02 (RSAC)
Sent Date: 3/1/2011 2:49:53 PM
Received Date: 3/1/2011 2:49:58 PM
From: Chowdhury, Prosanta

Created By: Prosanta.Chowdhury@nrc.gov

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Tracking Status: None
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"'David.Lewis2@pseg.com'" <David.Lewis2@pseg.com>
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Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	759	3/1/2011 2:49:58 PM
PSEG Site ESPA Draft RAI 15 (eRAI 5485).doc	32250	

Options
Priority: Standard
Return Notification: No
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Request for Additional Information No. 15
Application Revision 0

DRAFT

3/1/2011

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.