

## **PSEGSPeRAIPEm Resource**

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**From:** Chowdhury, Prosanta  
**Sent:** Wednesday, August 10, 2011 1:59 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 34 (eRAI 5844) SRP-02.03.04 (RSAC)  
**Attachments:** PSEG Site ESPA Final RAI 34 (eRAI 5844).pdf

Please find attached RAI 34 for the PSEG Site ESP Application. A draft of the RAI was provided to you on August 2, 2011. You informed via email on August 10, 2011, that you would not need a clarification call involving 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

**Hearing Identifier:** PSEG\_Site\_EarlySitePermit\_RAI  
**Email Number:** 69

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**Subject:** PSEG Site ESPA FINAL RAI 34 (eRAI 5844) SRP-02.03.04 (RSAC)  
**Sent Date:** 8/10/2011 1:58:41 PM  
**Received Date:** 8/10/2011 1:58:45 PM  
**From:** Chowdhury, Prosanta

**Created By:** Prosanta.Chowdhury@nrc.gov

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MESSAGE	960	8/10/2011 1:58:45 PM
PSEG Site ESPA Final RAI 34 (eRAI 5844).pdf		39337

**Options**

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**Expiration Date:**  
**Recipients Received:**

Request for Additional Information No. 34

Application Revision 0

FINAL

8/10/2011

PSEG Site ESP

PSEG Power LLC, PSEG Nuclear LLC

Docket No. 52-043

SRP Section: 02.03.04 - Short Term Atmospheric Dispersion Estimates for Accident Releases

Application Section: Short Term Atmospheric Dispersion Estimates for Accident Releases

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.04-2

10 CFR 100.21(c)(2) requires that site atmospheric dispersion characteristics must be evaluated and dispersion parameters established such that radiological dose consequences of postulated accidents meet the criteria set forth in 10 CFR 50.34(a)(1). RG 1.111, Revision 1, states that for generating long term (annual average)  $\chi/Q$  values, spatial and temporal variations of airflow should be considered at sites along and near coasts with significant land-water boundary layer effects on airflow and sea-land breeze circulations. SSAR Section 2.3.2.2.1.2 describes the complex wind patterns at the PSEG site that are caused in part by Delaware Bay breezes and local shoreline breezes.

The staff notes that in the PAVAN input/output files that have been provided in a February 25, 2011, response (ML110680201) to RAI 5, Question 02.03.04-1 (ML110280495), adjustments for the potential effects of land-water boundaries on the annual average  $\chi/Q$  values generated by PAVAN have not been addressed.

Update Section 2.3.4 of the SSAR to include the  $\chi/Q$  values that consider and account for the potential effects of land-water boundaries, or provide justification as to why this is not necessary for the PSEG site.