

PSEGSPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Wednesday, June 01, 2011 8:14 AM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGSPeRAIPEm Resource; 'David.Lewis2@pseg.com'; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Colaccino, Joseph; Silvia, Andrea; Clark, Phyllis; McLellan, Judith; Candelario, Luisette; Cook, Christopher
Subject: PSEG Site ESPA FINAL RAI 30 (eRAI 5726) SRP-02.05.04 (RGS2)
Attachments: PSEG Site ESPA Final RAI 30 (eRAI 5726).pdf

Please find attached RAI 30 for the PSEG Site ESP Application. A draft of the RAI was provided to you on May 17, 2011. You informed via email on May 31, 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
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Subject: PSEG Site ESPA FINAL RAI 30 (eRAI 5726) SRP-02.05.04 (RGS2)
Sent Date: 6/1/2011 8:14:05 AM
Received Date: 6/1/2011 8:14:07 AM
From: Chowdhury, Prosanta

Created By: Prosanta.Chowdhury@nrc.gov

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Options

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Request for Additional Information No. 30

Application Revision 0

FINAL

6/01/2011

PSEG Site ESP

PSEG Power LLC, PSEG Nuclear LLC

Docket No. 52-043

SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations

Application Section: Section 2.5.4

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

02.05.04-2

PSEG Site ESP Application SSAR Table 2.5.4.6-1 presents ground water levels recorded between January 2009 and December 2009. 10 CFR 100.23 (d)(4) requires the evaluation and determination of siting factors for design conditions, including liquefaction potential. In accordance with this regulation, justify and discuss why the average groundwater elevation of 0.6 ft North American Vertical Datum (NAVD) was calculated from groundwater monitoring data collected between January 2009 and July 2009 instead of the complete data range (January to December, 2009). In addition, discuss any impacts to the liquefaction assessment if the complete date range of monitoring data had been used.

02.05.04-3

PSEG Site ESP Application SSAR Subsection 2.5.4.8 discusses liquefaction potential. 10 CFR 100.23 (d)(4) requires the evaluation and determination of siting factors for design conditions, including liquefaction potential. In accordance with the regulation:

a) State the method and provide the equations used to calculate $(N_1)_{60}$ and the supporting correction factor values used for each individual boring sampled. Indicate if a correction factor for overburden stress (C_N) varying with depth was used and provide equations and justification. Also, state any limiting values applied to the correction factors along with justifications for such values.

b) State the method and provide the equations used to calculate Cyclic Stress Ratio ($CRR_{7.5}$), Magnitude Scaling Factor (MSF), and the correction factor for overburden stress (k_s). Provide and justify values for variables in the above equations and state any limiting or average values that were applied, along with a justification for each value.