

PSEGSPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Tuesday, April 05, 2011 11:25 AM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGSPeRAIPEm Resource; 'David.Lewis2@pseg.com'; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Quinlan, Kevin; Schaaf, Robert
Subject: CORRECTED: PSEG Site ESPA FINAL RAI 16 (eRAI 5486) SRP-02.03.05 (RSAC)
Attachments: PSEG Site ESPA Final RAI 16 (eRAI 5486).pdf

Please refer to my email below. RAI 16 (eRAI 5486), as attached, was issued as final on March 9, 2011 (ML110680156). Subsequently, two minor errors were identified in the third sentence of Question 02.03.05-1; specifically, (i) the acronym used for the applicant was misspelled, and (ii) a typographical error occurred in referencing the SSAR Section.

Via this email I am confirming that in RAI 16 (eRAI 5486), Question 02.03.05-1, as issued on March 9, 2011, (i) the acronym for the applicant should read "PSEG" instead of "PESG," and (ii) the reference to SSAR Section should read "2.3.5." instead of "2.3.4." The rest of this RAI remains unchanged. Please note that as a result of the aforementioned corrections, it should not be considered a new RAI, and therefore, we expect your response within 30 calendar days from the date of issuance of the RAI.

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

From: Chowdhury, Prosanta
Sent: Wednesday, March 09, 2011 10:11 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; Quinlan, Kevin; Schaaf, Robert
Subject: PSEG Site ESPA FINAL RAI 16 (eRAI 5486) SRP-02.03.05 (RSAC)

Please find attached RAI 16 for the PSEG Site ESP Application. A draft of the RAI was provided to you on March 01, 2011. You informed via email on March 09, 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

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From: Chowdhury, Prosanta

Created By: Prosanta.Chowdhury@nrc.gov

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Options

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Request for Additional Information No. 16
Application Revision 0

FINAL

3/09/2011

PSEG Site ESP
PSEG Power LLC, PSEG Nuclear LLC
Docket No. 52-043

SRP Section: 02.03.05 - Long-Term Atmospheric Dispersion Estimates for Routine Releases
Application Section: Long-Term Atmospheric Dispersion Estimates for Routine Releases

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.05-1

10 CFR 20, Subpart D requires that the SSAR demonstrate that the proposed plant will be in compliance with dose limits for individual members of the public. NUREG-0800, Section 2.3.5 sets forth the staff's review procedures for ensuring that sufficient information is presented to demonstrate the site characteristics and design parameters of the proposed site. In order for the staff to complete an independent review of the offsite dose analysis, please provide an electronic copy of the XOQDOQ input and output files used in PSEG ESP Application SSAR Section 2.3.4. The input and output files should contain any assumptions that were made in generating these files.

02.03.05-2

10 CFR 52, Appendix I requires that all light water cooled reactors meet the ALARA criterion for radioactive material. Regulatory Guide 1.111, Revision 1 states that radioactive decay and depletion should be considered in radiological impact evaluations. The Regulatory Guide also states that for conservative estimates of radioactive decay, an overall half-life of 2.26 days is acceptable for short-lived noble gases and of 8 days for all iodine's released to the atmosphere. This data is used in the review of Chapter 11 of the SSAR to determine the radioactive doses to specific receptors, individuals, and the population within 50 miles of the plant.

Please provide in PSEG ESP Application SSAR Section 2.3.5 the XOQDOQ-predicted annual average χ/Q values for all of the standard radial distances and distance segment boundaries, which include the 2.26- and 8.00-day decay periods and depletion.