

PSEGSPeRAIPEm Resource

From: Chowdhury, Prosanta
Sent: Thursday, June 07, 2012 3:52 PM
To: 'PSEGRAIResponses@pseg.com'
Cc: PSEGSPeRAIPEm Resource; 'James.Mallon@pseg.com'; 'David.Robillard@pseg.com'; Segala, John; Silvia, Andrea; Clark, Phyllis; McLellan, Judith; Seber, Dogan; Devlin, Stephanie; Karas, Rebecca
Subject: PSEG Site ESPA FINAL RAI 61 (eRAI 6488) SRP-02.05.02 (RGS1)
Attachments: PSEG Site ESPA Final RAI 61 (eRAI 6488).pdf

Please find attached RAI 61 for the PSEG Site ESP Application. Following issuance of the draft of RAI 61 on May 14, 2012, the NRC initiated two clarification conference calls with you – the first one on May 29, 2012, and the second one on June 1, 2012. During these calls, the NRC provided clarification on the staff's expectation in this RAI. You mentioned during the first call that you would run the "Central and Eastern United States Seismic Source Characterization for Nuclear Facilities" (CEUS-SSC) model with 2004/2006 Ground Motion Prediction Equations (GMPEs) and compare the result with those of the updated EPRI SOG model (including updates requested in RAI 43). Additionally, it was understood during the second call that in order to enable the NRC staff to conduct more efficient confirmatory analyses, you would include digital copies, such as Excel files, of the individual seismic sources' hazard curves as well as the total seismic hazard curves calculated at the seven frequencies for both the EPRI SOG model and the new CEUS-SSC model. At your request, a third clarification call was held on June 7, 2012, during which the staff provided clarification on the scope of the seismic sources. Following the third clarification call, we understand that no further clarification is necessary 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. However, you requested on June 7, 2012, that you would need 120 days to respond to this RAI. As our standard practice, we will assess any impact the additional response time may have on the review schedule. If this RAI cannot be responded to within 120 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
Licensing Branch 1 (LB1)
Division of New Reactor Licensing
Office of New Reactors
301-415-1647

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Request for Additional Information No. 61

Application Revision 0

FINAL

6/7/2012

PSEG Site ESP
PSEG Power LLC, PSEG Nuclear LLC
Docket No. 52-043
SRP Section: 02.05.02 - Vibratory Ground Motion
Application Section: 2.5.2

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.02-10

This request for additional information (RAI) specifically addresses Recommendation 2.1 of the Fukushima Near-Term Task Force recommendations contained in SECY-12-0025, as it pertains to the seismic hazard evaluation. This Recommendation specifies the use of NUREG-2115, "Central and Eastern United States Seismic Source Characterization for Nuclear Facilities" (CEUS-SSC), in a site probabilistic seismic hazard analysis (PSHA). The NRC staff issued NUREG-2115 in January 2012, marking the completion of approximately four years of collaborative work between NRC, the Department of Energy, and the Electric Power Research Institute.

Consistent with Recommendation 2.1, as well as the need to consider the latest available information in the PSHA for the PSEG proposed reactor site, the NRC staff requests that PSEG Power, LLC and PSEG Nuclear, LLC:

- a) Evaluate the potential impacts of the newly released CEUS-SSC model, with potential local and regional refinements as identified in the CEUS-SSC model, on the seismic hazard curves and the site-specific ground motion response spectra (GMRS). For re-calculation of the PSHA, please follow either the cumulative absolute velocity (CAV) filter or minimum magnitude specifications outlined in Attachment 1 to Seismic Enclosure 1 of the March 12, 2012, letter "Request for information pursuant to title 10 of the *Code of Federal Regulations* 50.54(f) regarding recommendations 2.1, 2.3, and 9.3, of the near-term task force review of insights from the Fukushima Dai-ichi accident." (ML12053A340)
- b) Modify the site-specific GMRS if you determine changes are necessary given the evaluation performed in part a) above.