

**From:** Christian Araguas  
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**Date:** 11/15/2006 3:39:17 PM  
**Subject:** Draft RAIs for Section 2.5 - Geology, Seismology, and Geotechnical Engineering  
**cc:** "Sarah Gonzalez" <SHG1@nrc.gov>,"Stephanie Coffin" <SMC1@nrc.gov>,"Zahira Cruz-Perez" <zlc@nrc.gov>,"Rebecca Karas" <RLK@nrc.gov>,"Clifford Munson" <CGM1@nrc.gov>,"Yong Li" <YXL1@nrc.gov>,"Gerry Stirewalt" <GLS3@nrc.gov>

Jim,

Attached are draft RAIs pertaining to Section 2.5 that the staff plans to issue. Please take a look and let me know if you would like to have a conference call to discuss further these draft RAIs. Thanks.

Christian Araguas

US Nuclear Regulatory Commission  
Nuclear Reactor Regulation  
Division of New Reactor Licensing  
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**Draft Requests for Additional Information (RAIs)**  
**Vogtle ESP Sections 2.5.2**

RAI Number	Reviewer	Question Summary	Full Text
2.5.2-1	Munson C	Confirmatory Analysis of PSHA results. (2.5.2)	<p>In order for the staff to determine the adequacy of the Probabilistic Seismic Hazard Analysis (PSHA) for the Vogtle ESP site, please provide the following data electronically:</p> <ol style="list-style-type: none"> <li>1. EPRi seismicity catalog (EPRi NP-4726-A 1988) for the region of interest (30° to 37° N, 78° to 86° W).</li> <li>2. Updated EPRi seismicity catalog as shown in SSAR Table 2.5.2-1.</li> <li>3. Geographic coordinates of the corner points for the primary (99% of total hazard) source zones for each of the 6 EPRi-SOG Earth Science Teams (ESTs).</li> <li>4. 1- and 10-Hz mean hazard curves for each of the 6 EPRi-SOG ESTs for each of their source zones.</li> <li>5. 1- and 10-Hz mean hazard curves for the updated Charleston seismic source.</li> </ol>
2.5.2-2	Munson C	Description of update for Charleston seismic source. (2.5.2)	<p>In order for the staff to fully evaluate the update for the Charleston seismic source, please provide a copy of Bechtel engineering study report 25144-006-V14-CY06-00006 entitled "Update of Charleston Seismic Source and Integration with EPRi Source Models."</p>
2.5.2-3	Munson C	Confirmatory Analysis of SSE. (2.5.2)	<p>In order for the staff to verify the adequacy of the SSE, please provide electronically 1, 2.5, 5, 10, 25, and 100 Hz mean hazard curves at the prescribed elevation, which takes into account the effect of rock and soil above the hard rock horizon.</p>