

## CCNPP3eRAIPEm Resource

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**From:** Arora, Surinder  
**Sent:** Tuesday, September 20, 2011 8:12 AM  
**To:** Infanger, Paul  
**Cc:** CCNPP3eRAIPEm Resource; Colaccino, Joseph; Ford, Tanya; Wilson, Anthony; Vrahoretis, Susan; Karas, Rebecca; Tabatabai, Sarah; Cook, Christopher  
**Subject:** Draft RAI 322 RGS1 6031  
**Attachments:** DRAFT RAI 322 RGS1 6031.doc

Paul,

Attached is Draft RAI No. 322 (eRAI No. 6031). You have until October 4, 2011 to review it and decide whether you need a clarification phone call to discuss the questions in the RAI before the final issuance. After the phone call or on October 4, 2011, the RAI will be finalized and sent to you for a response. You will then have 30 days to provide a technically complete response or an expected response date for the RAI.

Thanks.

**SURINDER ARORA, PE**  
**PROJECT MANAGER,**  
**Office of New Reactors**  
**US Nuclear Regulatory Commission**

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**Hearing Identifier:** CalvertCliffs\_Unit3Col\_RAI  
**Email Number:** 145

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**Subject:** Draft RAI 322 RGS1 6031  
**Sent Date:** 9/20/2011 8:11:54 AM  
**Received Date:** 9/20/2011 8:11:57 AM  
**From:** Arora, Surinder

**Created By:** Surinder.Arora@nrc.gov

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Tracking Status: None

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Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

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**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

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**Expiration Date:**

**Recipients Received:**

Request for Additional Information No. 322 (eRAI 6031)  
DRAFT  
9/20/2011

Calvert Cliffs Unit 3  
UniStar  
Docket No. 52-016  
SRP Section: 02.05.02 - Vibratory Ground Motion  
Application Section: 2.5.2

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.02-23

In accordance with NUREG-0800, Standard Review Plan, Chapter 2.5.2, "Vibratory Ground Motion," and Regulatory Guide (RG) 1.208, "A Performance-Based Approach to Define the Site-Specific Earthquake Ground Motion" the applicant is directed to assess the adequacy of the existing EPRI-SOG seismic source model in light of the August 23, 2011, **M**5.8 Mineral, Virginia earthquake.

The earthquake was located in the Central Virginia Seismic Zone (CVSZ), which is modeled by all of the EPR-SOG ESTs except for the Law Engineering Team. The applicant is directed to: 1) review the adequacy of the each of the ESTs source models that incorporate this earthquake (including the Law Engineering Team) in terms of the maximum magnitude probability distribution, source geometry, probability of activity, and seismicity rates; and 2) address the impact of any necessary modifications to CVSZ on the GMRS.