

## CCNPP3COLA PEmails

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**From:** Rycyna, John  
**Sent:** Thursday, June 11, 2009 12:52 PM  
**To:** Poche, Robert; McQueeney, Jennifer; katie.thurstin@unistarnuclear.com  
**Cc:** CCNPP3COL Resource; Bernal, Sara; Frye, Timothy; Jennings, Jason; Biggins, James; Simon, Marcia; Vrahoretis, Susan; Colaccino, Joseph  
**Subject:** RAI No 119 CHPB 2215.doc  
**Attachments:** RAI No 119 CHPB 2215.doc

Rob,

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on May 21, 2009. No conference call was requested to discuss this RAI. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

John Rycyna, PE  
Sr. Project Manager  
Division of New Reactor Licensing  
Office of New Reactors  
U.S. Nuclear Regulatory Commission  
301-415-4122

**Hearing Identifier:** CalvertCliffs\_Unit3Cola\_Public\_EX  
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**Subject:** RAI No 119 CHPB 2215.doc  
**Sent Date:** 6/11/2009 12:51:30 PM  
**Received Date:** 6/11/2009 12:51:33 PM  
**From:** Rycyna, John

**Created By:** John.Rycyna@nrc.gov

**Recipients:**

"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>  
Tracking Status: None  
"Bernal, Sara" <Sara.Bernal@nrc.gov>  
Tracking Status: None  
"Frye, Timothy" <Timothy.Frye@nrc.gov>  
Tracking Status: None  
"Jennings, Jason" <Jason.Jennings@nrc.gov>  
Tracking Status: None  
"Biggins, James" <James.Biggins@nrc.gov>  
Tracking Status: None  
"Simon, Marcia" <Marcia.Simon@nrc.gov>  
Tracking Status: None  
"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>  
Tracking Status: None  
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>  
Tracking Status: None  
"Poche, Robert" <Robert.Poche@constellation.com>  
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"McQueeney, Jennifer" <Jennifer.McQueeney@unistarnuclear.com>  
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"katie.thurstin@unistarnuclear.com" <katie.thurstin@unistarnuclear.com>  
Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	765	6/11/2009 12:51:33 PM
RAI No 119 CHPB 2215.doc		35438

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

Request for Additional Information No. 119  
6/11/09

Calvert Cliffs Unit 3  
UniStar  
Docket No. 52-016  
SRP Section: 12.02 - Radiation Sources  
Application Section: Section 12.2, Radiation Sources

QUESTIONS for Health Physics Branch (CHPB)

12.02-2

Section 12.2.1.13, Miscellaneous Sources, of the applicant's FSAR states:

“The U.S. EPR FSAR includes the following COL Item in Section 12.2.1.13:

A COL applicant that references the U.S. EPR design certification will provide site-specific information for required radiation sources containing byproduct, source, and special nuclear material that may warrant shielding design considerations. This site-specific information will include a listing of isotope, quantity, form, and use of all sources in this latter category that exceed 100 millicuries.

This COL item is addressed as follows:

The following radiation sources have been identified to be required.

Isotope	Quantity	Form	Use
Cf-252	0.5 Ci	Sealed Source	Primary Start-up Source
Sb-Be	3E+06 Ci	Sealed Source	Secondary Source
Cs-137	400 Ci	Sealed Source	Secondary Source
Cs-137	{130 mCi}	Sealed Source	Calibration
{Am-241	0.03 uCi	Sealed Source	Calibration}

- a) Section 12.2, Radiation Sources, of NUREG-0800, “Standard Review Plan for Licensing of Nuclear Power Plants,” states:

“...Contained Sources. The description of radiation sources, ...This description should include isotopic composition, location in the plant, source strength and source geometry, and the basis for the values...”

The applicant's FSAR, in Section 12.2.1.13, does not include a description of the location of the sources, the source geometry or the basis for the values in the source list as described in NUREG-0800. Please provide this information, or justify an alternative.

- b) 10 CFR 20.1801 requires licensees to secure from unauthorized removal or access, additional materials that are stored in controlled or unrestricted areas. Describe how the contained sources described in Section 12.2.1.13 (response to

COL item 12.2-1), and any additional by-product, source, or special nuclear material sources that are not a part of the permanent plant design will be secured in accordance with 10 CFR 20.1801. Describe how the materials will be tracked. What procedures will govern the control and use of these sources?