

## CCNPP3eRAIPEm Resource

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**From:** Canova, Michael  
**Sent:** Wednesday, September 26, 2012 2:18 PM  
**To:** paul.infanger@unistarnuclear.com  
**Cc:** UNECC3Project@unistarnuclear.com  
**Subject:** RE: CCNPP3 - FINAL RAI 371 RPAC 6595 - Correction to Dated Attachement  
**Attachments:** Final RAI 371 RPAC 6595R1.doc

[Corrected RAI document attached](#)

[Mike Canova](#)

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**From:** Canova, Michael  
**Sent:** Wednesday, September 26, 2012 2:08 PM  
**To:** 'paul.infanger@unistarnuclear.com'  
**Cc:** 'UNECC3Project@unistarnuclear.com'  
**Subject:** CCNPP3 - FINAL RAI 371 RPAC 6595

Paul,

Attached is Final RAI No. 371 (eRAI No. 6595) pertaining to section 12.3 of the Calvert Cliffs Unit 3 FSAR. The draft of this RAI was sent to you on September 10, 2012 asking you to request a clarification call, if required by September 24, 2010. Since UniStar has not requested a clarification call on this RAI, this email transmits the RAI as "final" for your response.

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 schedule date for submitting your technically correct and complete response will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the review schedule.

Your response letter should also include a statement confirming that the response does or does not contain any sensitive or proprietary information.

Thanks

*Mike Canova for S. Arora*  
**Project Manager**  
Licensing Branch 1  
Division of New Reactor Licensing  
Office of New Reactors  
301-415-0737

**Hearing Identifier:** CalvertCliffs\_Unit3Col\_RAI  
**Email Number:** 260

**Mail Envelope Properties** (77BCCD26C6050B42A72FE3939CF492EDDC4630B59A)

**Subject:** RE: CCNPP3 - FINAL RAI 371 RPAC 6595 - Correction to Dated Attachement  
**Sent Date:** 9/26/2012 2:17:43 PM  
**Received Date:** 9/26/2012 2:17:51 PM  
**From:** Canova, Michael

**Created By:** Michael.Canova@nrc.gov

**Recipients:**

"UNECC3Project@unistarnuclear.com" <UNECC3Project@unistarnuclear.com>

Tracking Status: None

"paul.infanger@unistarnuclear.com" <paul.infanger@unistarnuclear.com>

Tracking Status: None

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

Files	Size	Date & Time
MESSAGE	1428	9/26/2012 2:17:51 PM
Final RAI 371 RPAC 6595R1.doc		35834

**Options**

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

## **Request for Additional Information 371 (eRAI 6595)**

Issue Date: ~~9/26/2012~~9/10/2012

Application Title: Calvert Cliffs Unit 3 - Docket Number 52-016

Operating Company: UniStar

Docket No. 52-016

Review Section: 12.03-12.04 - Radiation Protection Design Features

Application Section: 12.3

### **QUESTION**

12.03-11

10 CFR 52.79(a) requires in part that the final safety analysis report describes the facility, presents the design bases and the limits on its operation, and presents a safety analysis of the structures, systems, and components of the facility as a whole. Furthermore, the final safety analysis report shall include information at a level sufficient to enable the Commission to reach a final conclusion on all safety matters, including information on the kinds and quantities of radioactive materials expected to be produced and the means for controlling and limiting radiation exposures within the limits set forth in 10 CFR Part 20.

In addition, 10 CFR 20.1101(b) requires that the licensee use, to the extent practical, procedures and engineering controls based upon sound radiation protection principles to achieve occupational doses and doses to members of the public that are as low as is reasonably achievable.

COL Item 12.3-4 (in FSAR Section 12.3.2.3) states that, "A COL applicant that references the U.S. EPR design certification will maintain dose rates below the administrative limits shown in Table 12.3-14 or revise nearby or adjacent radiation zone designations as necessary based on site-specific dose analysis for the areas listed in Table 12.3-14." In response to this COL Item, in order for the staff to adequately evaluate the application, it is the staff's position that the applicant commit to one of the above two COL options (i.e., commit to maintain dose rates below the administrative dose rate limits shown in FSAR Table 12.3-14, or if any of these administrative dose rate limits are exceeded, revise the radiation zone designations where applicable, for those areas where the administrative dose rate limits have been exceeded). If the applicant's response to COL Item 12.3-4 does not specify the selection of only one of the two COL options, then it is the staff's position that the applicant provide sufficient information in the FSAR for the staff to perform an independent evaluation of both options to determine their acceptability.

In the applicant's response to COL Item 12.3-4, the applicant must ensure that all sections of the FSAR are accurate, consistent, and complete regarding the approach taken. For example, if the applicant chooses to maintain dose rates below the administrative limits shown in U.S. EPR FSAR Table 12.3-14, the FSAR should be modified, as necessary, to reflect the amount of resin use, boric acid use, waste generation rates, etc., that will be necessary in each of these areas to maintain the associated dose rates below the administrative limits. Alternately, if the applicant chooses to update the radiation zone maps, the applicant must ensure that all other FSAR changes that are necessary as a result of updating the maps, such as possible changes to worker dose estimates, are made as a result of the zoning changes.