

## CCNPP3COLA PEmails

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**From:** Arora, Surinder  
**Sent:** Tuesday, April 13, 2010 4:37 PM  
**To:** 'Poche, Robert'; 'cc3project@constellation.com'  
**Cc:** CCNPP3COL Resource; Snodderly, Michael; Jackson, Christopher; Colaccino, Joseph; Hearn, Peter; Biggins, James; Vrahoretis, Susan; Hair, Christopher  
**Subject:** DRAFT RAI 233 SPCV 4511  
**Attachments:** DRAFT RAI 233 SPCV 4511.doc

Rob,

Attached is DRAFT RAI No. 233 (eRAI No. 4511). You have until April 27, 2010 to review it and decide whether you need a conference call to discuss any questions in this RAI before the final issuance. After the phone call or on April 27, 2010, the RAI will be finalized and sent to you for 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\_Unit3Cola\_Public\_EX  
**Email Number:** 1262

**Mail Envelope Properties** (B46615B367D1144982B324704E3BCEED21A95FCA9B)

**Subject:** DRAFT RAI 233 SPCV 4511  
**Sent Date:** 4/13/2010 4:36:49 PM  
**Received Date:** 4/13/2010 4:36:51 PM  
**From:** Arora, Surinder

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

**Recipients:**

"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>  
Tracking Status: None  
"Snodderly, Michael" <Michael.Snodderly@nrc.gov>  
Tracking Status: None  
"Jackson, Christopher" <Christopher.Jackson@nrc.gov>  
Tracking Status: None  
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>  
Tracking Status: None  
"Hearn, Peter" <Peter.Hearn@nrc.gov>  
Tracking Status: None  
"Biggins, James" <James.Biggins@nrc.gov>  
Tracking Status: None  
"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>  
Tracking Status: None  
"Hair, Christopher" <Christopher.Hair@nrc.gov>  
Tracking Status:: Response: None : 4/13/2010 1:42:00 PM  
"Poche, Robert" <Robert.Poche@constellation.com>  
Tracking Status: None  
"cc3project@constellation.com" <cc3project@constellation.com>  
Tracking Status: None

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

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	644	4/13/2010 4:36:51 PM
DRAFT RAI 233 SPCV 4511.doc		31226

**Options**

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

Request for Additional Information No. 233 (eRAI 4511)  
DRAFT  
4/13/2010

Calvert Cliffs Unit 3  
UniStar  
Docket No. 52-016  
SRP Section: 09.04.05 - Engineered Safety Feature Ventilation System  
Application Section: 9.4.15

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

09.04.05-2

**Sizing of the HVAC System**

10 CFR 52.80(a) requires a COL application to contain the proposed inspections, tests, and analyses, that the licensee shall perform, and the acceptance criteria that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria met, the facility has been constructed and will operate in conformity with the combined license, the provisions of the Atomic Energy Act, and the NRC's regulations. The applicant has provided the performance requirements for the UHS Makeup Water Intake Structure Ventilation System but has not provided detailed design information related to the sizing of the HVAC System. Adequate sizing of the system must be assured through the ITAAC, which verifies the capability of the system to control temperature and remove the design heat load.

- a. Provide a description in the FSAR for the verification of system's capability to remove the design heat load.
- b. Describe the method of verification (by testing and/or analysis) and provide a description of the methods for determining the design heat loads including the limiting or bounding assumptions for all modes of operation including normal and outage, and during all anticipated occurrences including postulated accident events. As part of this description, design-basis outdoor air temperatures should be specified, along with bases for selection of these limiting ambient temperatures.