## CCNPP3COLA PEmails

**From:** Rycyna, John
**Sent:** Tuesday, July 28, 2009 2:02 PM
**To:** 'Poche, Robert'; katie.thurstin@unistarnuclear.com; McQueeney, Jennifer; michael.stevenson@unistarnuclear.com
**Cc:** CCNPP3COL Resource; Reddy, Devender; Segala, John; Hearn, Peter; Colaccino, Joseph; Biggins, James; Vrahoretis, Susan; Simon, Marcia
**Subject:** RAI No 127 SBPA 2600.doc
**Attachments:** RAI No 127 SBPA 2600.doc

Rob,

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on July 9, 2009. No conference call was needed 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
**Email Number:** 819

**Mail Envelope Properties** (499C2FC6BB962446994CA8682D8ADF33188C4FBB4B)

**Subject:** RAI No 127 SBPA 2600.doc
**Sent Date:** 7/28/2009 2:01:48 PM
**Received Date:** 7/28/2009 2:02:01 PM
**From:** Rycyna, John

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

**Recipients:**
"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>
Tracking Status: None
"Reddy, Devender" <Devender.Reddy@nrc.gov>
Tracking Status: None
"Segala, John" <John.Segala@nrc.gov>
Tracking Status: None
"Hearn, Peter" <Peter.Hearn@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"Biggins, James" <James.Biggins@nrc.gov>
Tracking Status: None
"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>
Tracking Status: None
"Simon, Marcia" <Marcia.Simon@nrc.gov>
Tracking Status: None
"'Poche, Robert'" <Robert.Poche@constellation.com>
Tracking Status: None
"katie.thurstin@unistarnuclear.com" <katie.thurstin@unistarnuclear.com>
Tracking Status: None
"McQueeney, Jennifer" <Jennifer.McQueeney@unistarnuclear.com>
Tracking Status: None
"michael.stevenson@unistarnuclear.com" <michael.stevenson@unistarnuclear.com>
Tracking Status: None

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

| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 762 | 7/28/2009 2:02:01 PM |
| RAI No 127 SBPA 2600.doc | 25198 | |

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

Request for Additional Information No. 127

7/28/2009

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 10.04.05 - Circulating Water System
Application Section: FSAR Tier 2 Section 10.4.5

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

10.04.05-1

**Request for Additional Information**

**CCNPP - RAI 10.4.5-1_A**

General Design Criteria (GDC) 4, as it relates to flooding, requires that design provisions be provided to accommodate the effects of discharging water that may result from a failure of a component or piping in the circulating water system (CWS). In Section 10.4.5.3, “Safety Evaluation,” of the Final Safety Analysis Report for the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 Combined Operating License (COL) application, the applicant stated that internal flooding of the Turbine Building due to an unisolatable break or crack in a CWS pipe or failure of a CWS component, including expansion joints, does not result in damage to safety-related structures, systems, and components (SSCs). However, the applicant did not provide a description of the potential flooding hazard caused by collapse of the cooling tower, or failure of CWS yard piping. Therefore, the staff requests the applicant to provide additional information regarding the turbine building water level control and cooling tower and yard piping failure effects as related to the CWS flood control.

**CCNPP - RAI 10.4.5-2_B**

COL Information Item 10.4-6 for the CCNPP CWS states, "if a vacuum priming system is required, a COL applicant that references the U.S. EPR design certification will provide the site-specific design information." In CCNPP Unit 3 FSAR Section 10.4.5.2.2, under “Vacuum Priming System,” the applicant stated that a vacuum priming system is not required at CCNPP Unit 3; however, the applicant did not provide any justification for its statement. Therefore, the staff requests the applicant to provide additional information and/or clarification in this regard.