

## CCNPP3eRAIPEm Resource

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**From:** Arora, Surinder  
**Sent:** Thursday, April 25, 2013 8:53 AM  
**To:** Infanger, Paul; UNECC3Project@unistarnuclear.com  
**Cc:** CCNPP3eRAIPEm Resource; Segala, John; Wilson, Anthony; Wang, Weijun; Jackson, Diane; Ford, Tanya; McLellan, Judith  
**Subject:** FW: CCNPP3 - Final RAI 390 RGS2 7074  
**Attachments:** FINAL RAI 390 RGS2 7074.doc

Paul,  
This RAI was sent to you yesterday with my email below.  
The attachment is being resent with the corrected "Issue Date". Please replace the previously sent attachment with this one.

Thanks.

**SURINDER ARORA, PE**  
**LEAD PROJECT MANAGER,**  
**Calvert Cliffs Unit 3 Project**  
**Office of New Reactors**  
**US Nuclear Regulatory Commission**

Phone: 301 415-1421  
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Email: [Surinder.Arora@nrc.gov](mailto:Surinder.Arora@nrc.gov)

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**From:** Arora, Surinder  
**Sent:** Wednesday, April 24, 2013 3:37 PM  
**To:** 'Infanger, Paul'; 'UNECC3Project@unistarnuclear.com'  
**Cc:** CCNPP3eRAIPEm Resource; Segala, John; Wilson, Anthony; Wang, Weijun; Jackson, Diane; Ford, Tanya; McLellan, Judith  
**Subject:** CCNPP3 - Final RAI 390 RGS2 7074

Paul,

Attached to this email message is Final RAI No. 390 (eRAI No. 7074) pertaining to Section 2.5.4 of the FSAR for the Combined License Application for CCNPP3. This RAI question is a follow up to the response you had provided for Question 02.05.04-31 of RAI 307 (eRAI 5741) and it requests that an ITAAC be created to verify the settlement control. The draft of this RAI was issued to UniStar on April 8, 2013. A clarification phone call, requested by UniStar, was held on April 22, 2013 and the only change that was mutually agreed upon during the call was to change "settlement" in the second line of the question to "actual settlement". This email transmits the "final" version of the RAI with the above change incorporated.

The schedule that we have established for review of your application assumes that your technically complete response to the RAI question or a schedule for providing the response must be received within 30 days of the final RAI. Please note that if you are providing a response schedule in lieu of the technically complete response, the staff will re-evaluate the completion schedule of the chapter based on your proposed response date.

Additionally, please make sure that your response letter includes a statement whether or not your response contains any sensitive or proprietary information.

Thanks.

**SURINDER ARORA, PE**  
**LEAD PROJECT MANAGER,**  
**Calvert Cliffs Unit 3 Project**  
**Office of New Reactors**  
**US Nuclear Regulatory Commission**

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**Hearing Identifier:** CalvertCliffs\_Unit3Col\_RAI  
**Email Number:** 303

**Mail Envelope Properties** (B46615B367D1144982B324704E3BCEEDE57FC09626)

**Subject:** FW: CCNPP3 - Final RAI 390 RGS2 7074  
**Sent Date:** 4/25/2013 8:53:28 AM  
**Received Date:** 4/25/2013 8:53:29 AM  
**From:** Arora, Surinder

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

**Recipients:**

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Tracking Status: None  
"Segala, John" <John.Segala@nrc.gov>  
Tracking Status: None  
"Wilson, Anthony" <Anthony.Wilson@nrc.gov>  
Tracking Status: None  
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"Infanger, Paul" <paul.infanger@unistarnuclear.com>  
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Tracking Status: None

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

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MESSAGE	2387	4/25/2013 8:53:29 AM
FINAL RAI 390 RGS2 7074.doc		32762

**Options**

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

## **Request for Additional Information 390 (eRAI 7074)**

Issue Date: 4/24/2013

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

Operating Company: UniStar

Docket No. 52-016

Review Section: 02.05.04 - Stability of Subsurface Materials and Foundations

Application Section:

### **QUESTIONS**

RAI 2.5.4-32

**This Question is a follow up of Question 02.05.04-31 (RAI 307, eRAI 5741)**

Although the applicant responded to several RAIs regarding the settlement evaluation for the CCNPP Unit 3 site, actual settlement at this site still remains an unresolved concern. Settlement is an important stability issue at a deep soil site and large foundation settlement is expected for the CCNPP Unit 3 site. Additionally, with many uncertainties and variations related to the properties of subsurface materials and the models used in settlement analysis, different models provided a wide range of settlement estimates and there is no model that can exactly predict what will actually occur in the field. To confirm that the actual settlements of the safety related structures during and after construction meet the design requirements, in accordance with 10 CFR 100.23, please provide specific inspection, testing analysis and acceptance criteria on settlement control.