CCNPP3COLA NPEmails

From: Rycyna, John
Sent: Tuesday, October 21, 2008 2:53 PM
To: Wrobel, George
Cc: CCNPP3COL Resource; Karas, Rebecca; Tabatabai, Sarah; Munson, Clifford; Colaccino, Joseph
Subject: RAI No 25 RGS 1145.doc
Attachments: RAI No 25 RGS 1145.doc

George,

Attached please find the subject request for additional information (RAI). A draft of the RAI was provided to you on October 6, 2008. 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
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Division of New Reactor Licensing
Office of New Reactors
U.S. Nuclear Regulatory Commission
301-415-4122

Hearing Identifier: CalvertCliffs_Unit3Cola_NonPublic_EX
Email Number: 4761

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF330DE3C812AC)

Subject: RAI No 25 RGS 1145.doc
Sent Date: 10/21/2008 2:52:56 PM
Received Date: 10/21/2008 2:52:59 PM
From: Rycyna, John

Created By: John.Rycyna@nrc.gov

Recipients:
"CCNPP3COL Resource" <CCNPP3COL.Resource@nrc.gov>
Tracking Status: None
"Karas, Rebecca" <Rebecca.Karas@nrc.gov>
Tracking Status: None
"Tabatabai, Sarah" <Sarah.Tabatabai@nrc.gov>
Tracking Status: None
"Munson, Clifford" <Clifford.Munson@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"Wrobel, George" <George.Wrobel@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	767	10/21/2008 2:52:59 PM
RAI No 25 RGS 1145.doc	26734	

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

Request for Additional Information No. 25 Revision 2
10/21/2008

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 03.07.04 - Seismic Instrumentation
Application Section: 03.07.04 - Seismic Instrumentation

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

03.07.04-2

Regulatory Guide (RG) 1.12 states that "free-field sensors should be located and installed so that they record the motion of the ground surface and so that the effects associated with surface features, buildings, and components on the recorded ground motion will be insignificant."

In the applicant's FSAR, section 3.7.4.2.1, the applicant states that "[t]he free-field acceleration sensor is located on the base mat of the Fire Protection Building . . . . This location is sufficiently distant from nearby structures that they have no significant influence on the recorded free-field seismic motion."

According to the applicant's FSAR, Figure 1.2-1, the Fire Protection building is adjacent to two Fire Protection Storage Tanks. The NRC staff is concerned that these storage tanks may be potential sources of seismic noise, and requests the applicant to provide justification to show that the effects associated with these storage tanks are insignificant.

03.07.04-3

Regulatory Guide (RG) 1.12 states that "free-field sensors should be located and installed so that they record the motion of the ground surface and so that the effects associated with surface features, buildings, and components on the recorded ground motion will be insignificant."

In the applicant's FSAR, section 3.7.4.2.1, the applicant states that "[t]he free-field acceleration sensor is located on the base mat of the Fire Protection Building . . . . This location is sufficiently distant from nearby structures that they have no significant influence on the recorded free-field seismic motion. . . . In addition, the plan dimensions of the Fire Protection Building are small enough that its base mat will not have a significant filtering effect on the free-field motion."

According to the applicant's FSAR, Figure 1.2-1, the plan dimensions of the Fire Protection Building are approximately 40 ft. by 20 ft. The NRC staff requests the applicants to provide additional information to justify their assumption that seismic records obtained in the Fire Protection Building will adequately reflect "free-field" conditions. This information should also include a discussion of the embedment depth of the foundation, and a description of how the acceleration sensor will be installed within the Fire Protection Building.