CCNPP3COLA PEmails

From: John Rycyna
Sent: Tuesday, February 03, 2009 1:50 PM
To: Poche, Robert; McQueeney, Jennifer
Cc: CCNPP3COL Resource; Samir Chakrabarti; Sujit Samaddar; Michael Miernicki; Joseph Colaccino; Meena Khanna; James Biggins; Adam Gendelman
Subject: Draft RAI No 63 SEB2 1973.doc (PUBLIC)
Attachments: Draft RAI No 63 SEB2 1973.doc

Rob,

Attached is DRAFT RAI No. 63. You have until February 17, 2009 to review it and to decide whether you need a conference call to discuss it. After the call or after February 17, 2009 the RAI will be finalized and sent to you. You then have 30 days to respond.

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: 485

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF3316CBA29666)

Subject: Draft RAI No 63 SEB2 1973.doc (PUBLIC)
Sent Date: 2/3/2009 1:49:58 PM
Received Date: 2/3/2009 1:49:59 PM
From: John Rycyna

Created By: John.Rycyna@nrc.gov

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Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	441	2/3/2009 1:49:59 PM
Draft RAI No 63 SEB2 1973.doc	28270	

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

Request for Additional Information No. 63
DRAFT
2/3/2009

Calvert Cliffs Unit 3
UniStar
Docket No. 52-016
SRP Section: 03.07.03 - Seismic Subsystem Analysis
Application Section: 3.7.3

QUESTIONS for Structural Engineering Branch 2 (ESBWR/ABWR Projects) (SEB2)

03.07.03-1

FSAR Section 3.7.3.12 starting on page 3.0-45 describes the analysis for buried Seismic Category I piping, conduits and tunnels. For the analysis of these buried utilities, provide the following information:

- Describe any computer codes used for the analysis and their application to the analysis and design of buried utilities.
- Provide the soil properties used in the analysis and explain how differences in soil properties were accommodated in the analysis.
- Provide the design codes and acceptance criteria for each category of buried utilities.
- Describe the missile protection provided for safety-related buried utilities.
- Describe how ground water effects were considered in the analysis.
- For utility runs that are both above and below ground, describe how above ground inertial effects were combined with below ground seismic wave effects.
- Describe how the wave velocities were determined for calculating the maximum axial strain.
- Provide the basis for determining the maximum friction force per unit length of pipe.
- Describe how the building anchor point displacements were determined and how these were combined with seismic wave effects and soil loads.