BellBendCOLPEm Resource

From: Canova, Michael
Sent: Tuesday, April 26, 2011 4:48 PM
To: 'Sgarro, Rocco R'; 'Freels, James'; 'melanie.Frailer@unistarnuclear.com'
Cc: BellBendCOL Resource; Colaccino, Joseph; Vrahoretis, Susan; Dixon-Herrity, Jennifer; Ahmed, Sardar; Miernicki, Michael
Subject: Bell Bend COLA - Draft Request for Information No. 105 (RAI No. 105)- EMB2 5572
Attachments: Draft RAI Letter 105 - 5572 EMB2.doc

Attached is DRAFT RAI No. 98 for the Bell Bend COL Application. You have ten working days to review this request and to decide whether you need a conference call to discuss it. Please notify me of your decision in this regard.

After the call, or after ten days, the RAIS will be finalized and sent to you. The schedule for response submittal will be established prior to formalizing this RAI .

If you have any questions, please contact me.

Michael A. Canova
Project Manager - Bell Bend COL Application
Docket 52-039
EPR Project Branch
Division of New Reactor Licensing
Office of New Reactors
301-415-0737

Hearing Identifier: BellBend_COL_Public
Email Number: 512

Mail Envelope Properties (77BCCD26C6050B42A72FE3939CF492ED776B69D85E)

Subject: Bell Bend COLA - Draft Request for Information No. 105 (RAI No. 105)- EMB2 5572
Sent Date: 4/26/2011 4:47:55 PM
Received Date: 4/26/2011 4:47:56 PM
From: Canova, Michael

Created By: Michael.Canova@nrc.gov

Recipients:
"BellBendCOL Resource" <BellBendCOL.Resource@nrc.gov>
Tracking Status: None
"Colaccino, Joseph" <Joseph.Colaccino@nrc.gov>
Tracking Status: None
"Vrahoretis, Susan" <Susan.Vrahoretis@nrc.gov>
Tracking Status: None
"Dixon-Herrity, Jennifer" <Jennifer.Dixon-Herrity@nrc.gov>
Tracking Status: None
"Ahmed, Sardar" <Sardar.Ahmed@nrc.gov>
Tracking Status: None
"Miernicki, Michael" <Michael.Miernicki@nrc.gov>
Tracking Status: None
"'Sgarro, Rocco R'" <rrsgarro@pplweb.com>
Tracking Status: None
"'Freels, James'" <James.Freels@unistarnuclear.com>
Tracking Status: None
"'melanie.Frailer@unistarnuclear.com'" <melanie.Frailer@unistarnuclear.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	655	4/26/2011 4:47:56 PM
Draft RAI Letter 105 - 5572 EMB2.doc	33786	

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

RAI Letter 105

Request for Additional Information No. 5572
Application Revision 2

4/26/2011

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 03.02.01 - Seismic Classification
Application Section: 3.2.1

QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

03.02.01-1

BBNPP FSAR provided site-specific SSCs in Table 3.2-1. However, the definitions for some acronyms (e.g., PA, PAB, PAC, SGAO, etc.) in Table 3.2-1 cannot be located in the acronym list in the BBNPP FSAR or the U.S. EPR FSAR. Add the definition to the list of acronyms in Table 1.1-1 or add notes in Table 3.2-1. Additionally, the system title in Table 3.2-1 seems to be inconsistent with the component codes. As an example, there are no PA, PAB, PAC components listed under system heading " PA, PAA, PAB, PAC, PAS Circulating Water System" and no components listed under system heading "GW Raw Water Supply System, includes Essential Service Water Normal Makeup Supply", etc. Another example is that there are no heading codes listed for component codes UYF and UTG etc., and neither component codes nor system heading code listed for "Water Treatment System. The applicant is requested to verify whether UPB & UST needs to be added to the location codes in Note 3 of Table 3.2-1. Location codes for many components are missing in Table 3.2-1 (for example , location codes for "Instrumentation and Controls in Circ Water Piping" and for "Instrumentation and Controls in Makeup Piping" for "PA, PAA, PAB, PAC, PAS Circulating Water System", location codes for "Valves" and "Potable Water System Electrical Distribution Equipment" in "GK, GKB Potable Water System" etc.).

03.02.01-2

Seismic categories CS and NSC are defined in the U.S. EPR FSAR. However, there is no definition in BBNPP FSAR Table 3.2-1. For clarification and consistency, add the definition for seismic categories CS and NSC in the notes for Table 3.2-1.

03.02.01-3

Site-specific SSCs for the fire water supply system and the fire suppression system were added to BBNPP FSAR Table 3.2-1. However, the BBNPP FSAR site-specific piping and instrumentation diagram (P&ID) Figure 9.5-2 "Fire Water Distribution System – Site Specific Facilities" does not identify the SSC's Seismic Category. Provide the SSC's Seismic Category on the simplified fire protection system P&ID Figure 9.5-2 in the FSAR.

03.02.01-4

Position C.2 of Regulatory Guide 1.29 states that those portions of SSCs for which continued function is not required but for which failure could reduce the functioning of any safety-related SSCs to an unacceptable level should be designed and constructed so that the SSE would not cause such a failure. As indicated in Table 3.2-1 in the BBNPP FSAR , the turbine building is classified as conventional seismic (CS) and designed to the International Building Code seismic criteria.

1. State the basis for the classification of the turbine building as CS.
2. Provide the separation distance between the turbine building and safety-related SSCs and demonstrate that the separation distance is adequate to preclude the collapse of the turbine building from adversely affecting the function of the safety-related SSCs in a safe shutdown earthquake? Explain the basis for your conclusion that the separation distance is adequate to prevent collapse of the turbine building from adversely affecting safety-related SSCs