BellBendCOLPEm Resource

From: Canova, Michael
Sent: Monday, August 10, 2009 10:35 AM
To: Sgarro, Rocco R; BBNPP@pplweb.com; jennifer.mcqueeney@unistarnuclear.com; Katie.Thurstin@unistarnuclear.com; j freels
Cc: BellBendCOL Resource; Vrahoretis, Susan; Miernicki, Michael; Valentin, Milton; Thomas, Brian; Weisman, Robert
Subject: Bell Bend COLA - Draft Requests for Information No. 45 snf 46 (RAI No. 45 and 46)- SEB1 - 2450 and 2451
Attachments: Letter 45 - RAI 2450 SEB1.doc; Letter 46 - RAI 2451 SEB1.doc

Attached is DRAFT RAIs No. 45 and No. 46 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 RAI will be finalized and sent to you. You will then have 30 days to respond. These durations are factored into your review schedule. If additional time is required to respond, please inform me of your proposed schedule to respond at your earliest opportunity.

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: 276

Mail Envelope Properties (D9892A42664D3D4690E88C2F48D7C08E20ECD8B658)

Subject: Bell Bend COLA - Draft Requests for Information No. 45 snf 46 (RAI No. 45 and 46)- SEB1 - 2450 and 2451
Sent Date: 8/10/2009 10:35:26 AM
Received Date: 8/10/2009 10:35:27 AM
From: Canova, Michael

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Files	**Size**	**Date & Time**
MESSAGE	798	8/10/2009 10:35:27 AM
Letter 45 - RAI 2450 SEB1.doc	28154	
Letter 46 - RAI 2451 SEB1.doc	28154	

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

Request for Additional Information No. 45

8/10/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 03.03.01 - Wind Loading
Application Section: FSAR Table 2-0.1 & FSAR 3.3

QUESTIONS for Structural Engineering Branch (AP1000/EPR Projects) (SEB1)

03.03.01-1

To meet relevant NRC requirements, section 3.3.1 for NUREG 0800 presents acceptable values for wind force calculations. NUREG 0800 is not a substitute for NRC regulations; however, the applicants are required to identify any differences between NUREG 0800 and their independent approach, always supported with the related technical justification. The importance factor accounts for the degree of hazard to human life and damage to buildings and structures.

Please clarify which value is selected for the importance factor “I” to be used for the wind force calculation. The importance factor “I” presented in FSAR Table 2.0-1 is not the same as that which is proposed in EPR FSAR section 3.3.1.2, or the one in FSAR section 2.3.1.2.2.15. Please explain this variance, indicate the value for the importance factor used in the wind force calculation, and provide its technical justification.

In order for the NRC staff to determine whether the selected importance factor value is adequate for the site, please provide additional information about this factor and demonstrate compliance with General Design Criteria -2 in 10 CFR 50, Appendix A.

Request for Additional Information No. 46

8/10/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 03.03.02 - Tornado Loads
Application Section: FSAR section 3.3.2.3

QUESTIONS for Structural Engineering Branch (AP1000/EPR Projects) (SEB1)

03.03.02-1

General Design Criteria (GDC) -2 and GDC-4 in 10 CFR Part 50, Appendix A requires applicants to demonstrate that structures, systems and components (SSCs) important to safety shall withstand the effects of natural phenomena and postulated accidents. Tornado-generated missiles are part of both criteria. Please revise section 3.3.2.3 of the FSAR to include sufficient information to demonstrate that missiles generated from the collapse of structures that are not designed for tornado loads are bounded by the EPR DC FSAR 3.5.1.4 missile spectrum.

Additionally, please provide the technical basis for FSAR 3.3.2.3 statement of missiles generated from the collapse of site-specific structures that are not designed to withstand tornadoes are bounded by the EPR FSAR 3.5.1.4 missile spectrum. Describe the missiles that may be generated by the collapse of the site-specific structures listed in Bell Bend Nuclear Power Plant (BBNPP) FSAR Section 3.3.2.3, and explain how these missiles are bounded by the missile spectrum in Regulatory Guide 1.76. Please also explain the immediate and subsequent effect of the impact of these potential missiles on safety-related structures at BBNPP.

In order for the NRC staff to determine that structures that are not designed to withstand tornadoes will not represent a hazard for safety-related functions, please provide additional information about these structures and demonstrate compliance with GDC-2 and GDC-4 in 10 CFR 50, Appendix A.