

BellBendCOLPEm Resource

From: Canova, Michael
Sent: Friday, June 05, 2009 10:57 AM
To: Sgarro, Rocco R; BBNPP@pplweb.com; jennifer.mcqueeney@unistarnuclear.com; Katie.Thurstin@unistarnuclear.com
Cc: BellBendCOL Resource; Vrahoretis, Susan; Raione, Richard; Caverly, Jill
Subject: Bell Bend COLA - Draft Request for Information No. 23 (RAI No. 23)- RHEB - 2853
Attachments: letter 23 - RAI 2853 RHEB.doc

Attached is DRAFT RAI No. 23 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

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From: Canova, Michael

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Request for Additional Information No. 23 Revision 0
DRAFT
6/2/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 02.04.08 - Cooling Water Canals and Reservoirs
Application Section: Chapter 2.4.08

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.08-1

In accordance with the requirements of 10 CFR 100.20(c)(2), and 10 CFR 52.79(a)(1)(iii), the staff reviewed the Final Safety Analysis Report (FSAR), Chapter 2.4.8, Cooling Water Canals and Reservoirs. Staff's review of the information provided on the design of the hydraulic structures and the capacity of the Essential Service Water Emergency Makeup System (ESWEMS) pond indicates that additional information and detailed drawings are needed to provide the technical bases for the adequacy of the design. Additional information should include the following:

- (a) detailed drawings, to include Drawing 161642-1EMS-S1102 Rev 1, and also additional drawings showing configurations of the spillway crest, spillway chute, and transition areas from the chute to the drainage channel;
- (2) calculation packages that include computations for spillway discharge, computations for spillway chute velocities, the basis for the design of the erosion protection where the chute transitions to the drainage channel, and the basis for the design of the "curb" that will be used to dissipate energy;
- (3) calculation packages associated with the computation of seepage, specifically "ESWEMS Retention Pond Sizing, Project 161642," dated June 26, 2008 which includes information on the permeability of the pond liner as discussed in ITAAC Table 2.4-3, Part 10; and
- (4) additional information concerning the quality assurance and quality control procedures that will be used for the construction of the riprap layers used to protect the slopes of the ESWEMS pond, including information which documents the riprap layer thickness, average and minimum D_{50} , cross-sections, specifications, and placement procedures.