

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. 25 (RAI No. 25)- RHEB - 2852
Attachments: Letter 25 - RAI 2852 RHEB.doc

Attached is DRAFT RAI No. 25 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. 25 Revision 0
DRAFT
6/2/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 02.04.07 - Ice Effects
Application Section: 2.4.07

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.07-1

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 2.4.7, Ice Effects. Information is necessary to determine if the Essential Service Water Emergency Makeup System (ESWEMS) and other systems have adequately accounted for the accumulation of ice in the storage volume of the pond and the use of the operational system. The staff identified additional information needs related to the storage capacity of ESWEMS, sources of frazil ice accumulation, and referenced operational controls. The staff requests additional information including:

- (1) information to include detailed technical bases, and storage calculations included in "Ice Thickness Calculation BBNPP," dated May 12, 2008, to support the conclusion that the 27-day storage capacity of the ESWEMS pond conservatively includes ice thickness;
- (2) supporting information regarding the potential for frazil ice accumulation at the ESWEMS intakes, including the data range and other information for local frazil ice formation;
- (3) information regarding the operational control (Technical Specification 3.7-8 in Part 4) that was referenced in the site audit discussion of the cooling tower basins and freezing conditions; and
- (4) at least two years of additional historical data from the SSES meteorological tower, including wet bulb temperatures, dry bulb temperatures, total insolation (if available), and wind speeds.

02.04.07-2

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 2.4.7, Ice Effects. The staff needs additional information regarding hydrometeorological parameters related to ice formation and how ice might potentially affect safety-related structures at the site. Please provide additional information regarding the effects of ice

formation blocking Walkers Run, including the potential effects of ice blocking culverts and other drainage structures on flood levels and water surface profiles in the power block area.

The staff requests additional information including the calculation package and further information that addresses ice blockage of specific site drainage features such as ditches and culverts, access roads over Walker Run, access roads over tributaries, and Vehicle Barrier System (VBS) openings.