

BellBenderRAIPEm Resource

From: Canova, Michael
Sent: Friday, February 22, 2013 4:07 PM
To: 'Sgarro, Rocco R'; 'melanie.Frailer@unistarnuclear.com'; Woodring, Kathryn L; Kirkwood, Jon K
Cc: BellBendCOL Resource; Segala, John; Cook, Christopher; Giacinto, Joseph; Goldin, Laura; Clark, Phyllis
Subject: Bell Bend COLA - Final Request for Information No. 124 (RAI No. 124) - RHST 6962
Attachments: Final RAI Letter 124 - RHST 6962.doc

Attached is RAI No. 124 for the Bell Bend COL Application. Based on our discussion [today](#) we understand that you have no further questions on this RAI. In line with standard practice, please respond on or before [April 15](#), 2013. If additional time is required to respond, please inform me of your proposed schedule your earliest opportunity.

If you have any questions, please contact me.

Thanks,

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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Final RAI Letter 124 - RHST 6962.doc		34810

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Request for Additional Information 124

Issue Date: 2/22/2013

Application Title: Bell Bend Docket Number 52-039

Operating Company: PPL Bell Bend LLC.

Docket No. 52-039

Review Section: 02.04.08 - Cooling Water Canals and Reservoirs

Application Section: FSAR Section 2.4

QUESTION

02.04.08-2

A requirement to consider physical site characteristics in site evaluations is specified in 10 CFR 100.20(c). In addition, General Design Criterion 2 and 10 CFR 52.79(a)(1)(iii) require consideration of the most severe of the natural phenomena that have been historically reported for the site and surrounding area, with sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated. Staff review of the information provided on the design of the hydraulic structures for 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. In accordance with the requirements of 10 CFR 100.20(c), and 10 CFR 52.79(a)(1)(iii), the applicant should provide detailed drawings and additional information regarding the hydraulic design of the ESWEMS pond, including: (1) the configuration and overall design of the spillway and discharge areas; (2) effects of flow velocities in the discharge swale on the spillway area and outlet into the swale; (3) design information for the spillway outlet area, including design parameters, riprap sizes, and outflow data.

Section 2.4.8 of the Final Safety Analysis Report (FSAR) indicates that daily inspections will be conducted at the ESWEMS Pond to monitor water levels, problems, etc. The applicant should provide additional information regarding these routine planned inspections and observations of the ESWEMS pond.

These issues were identified by the staff in "BBNPP Information Needs - Hydrology," Serial #4, FSAR Section 2.4.8 (ML12292A285). During the site audit, resolution of the issues was identified by the applicant in "HY Audit Nov 2012 NFI / RAI Tracking," as NFI Number HY-04, Information Needs 4.1, 4.2, and 4.3. As identified in that document, the applicant agreed to: provide further explanation and calculations regarding velocities and flow patterns in the spillway chute and swale area; provide Drawing CS1506, showing post-construction details in that area; and commit to inspection methods outlined in Regulatory Guide 1.127, "Inspection of Water Control Structures."

Issues similar to those in Section 2.4.8 of the FSAR were identified by the staff in "BBNPP Information Needs - Hydrology," Serial #5, FSAR Section 2.4.10 (ML12292A285). During the site audit, it was determined that these flood protection issues are related to FSAR Section 2.4.8 issues and could be addressed in responses to Section 2.4.8 issues. Resolution was identified by the applicant in "HY Audit Nov 2012 NFI / RAI Tracking," as NFI Number HY-05, Information Need 5.1. The staff and applicant agreed that information needed by the staff is covered under Item HY-04.