

BellBendCOLPEm Resource

From: Canova, Michael
Sent: Wednesday, February 03, 2010 2:49 PM
To: 'Sgarro, Rocco R'; 'BBNPP@pplweb.com'; 'Freels, James'; 'melanie.Frailer@unistarnuclear.com'; 'Jacqueline.bell@unistarnuclear.com'
Cc: BellBendCOL Resource; Miernicki, Michael; Segala, John; Tatum, James; Weisman, Robert; Colaccino, Joseph
Subject: RE: Bell Bend COLA - Request for Information No. 89 (RAI No. 89)- SBPA - 3991
Attachments: Letter 89 - RAI 3991 SBPA.pdf

Attached is RAI No. [89](#) for the Bell Bend COL Application. Based [on our discussion today](#), we understand you have no questions on this RAI. You are requested to respond to this request [within 30 days](#). 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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Request for Additional Information No. 89
Application Revision 1

2/3/2010

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants
Application Section: 14.2

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

14.02-31

Because the Ultimate Heat Sink (UHS) support systems for the U. S. EPR are site-specific systems, COL applicants are tasked to establish initial test program test abstracts for these systems by COL Item 14.2-3. The applicant addressed this COL item for Bell Bend by providing FSAR Test Abstracts 14.2.14.1 for Essential Service Water System Emergency Makeup System (ESWEMS), 14.2.14.2 for the Essential Service Water System (ESWS) blowdown system, and 14.2.14.3 for the chemical treatment system. Based on a review of these test abstracts, the staff found that additional information is needed and Bell Bend FSAR Section 9.2.5 and Test Abstracts 14.2.14.1, 14.2.14.2, and 14.2.14.3 need to be revised as appropriate to clarify the following items:

Test Abstract 14.2.14.1: Makeup

- The prerequisites do not address the required status of ESWS and water level in the cooling tower basin necessary for performing the test.
- The test method specifies flow verification from the remote shutdown panel, but this capability is not described in Bell Bend FSAR Section 9.2.5.
- The test method specifies pump flow versus head verification, but pump specifications that show design pressure for the specified flow rate are not included in Bell Bend FSAR Section 9.2.5
- The test does not verify proper performance of recirculation flow modulation based on water level in the cooling tower basin.
- Vulnerability to waterhammer was not tested, nor is it discussed in Bell Bend FSAR Section 9.2.5.
- Testing is not specified for the normal makeup system, which is relied upon during normal operation.

Test Abstract 14.2.14.2: Blowdown

- The test method specifies verification that each blowdown system division can be operated from the remote shutdown panel, but this capability is not described in Bell Bend FSAR Section 9.2.5.
- There is no specific mention of testing the emergency (alternate) blowdown flow capability

Test Abstract 14.2.14.3: Chemical Treatment

The capability of adding chemicals to normal makeup and emergency makeup flow streams are not specifically recognized.