

BellBendCOLPEm Resource

From: Michael Canova
Sent: Tuesday, May 26, 2009 12:31 PM
To: 'Sgarro, Rocco R'; 'BBNPP@pplweb.com'; 'jennifer.mcqueeney@unistarnuclear.com'; 'Katie.Thurstin@unistarnuclear.com'
Cc: BellBendCOL Resource; Robert Weisman; Joseph Colaccino; Michael Miernicki; Terry Jackson; Deirdre Spaulding
Subject: Bell Bend COLA - Draft Request for Information No. 12 (RAI No.12)- ICE1 - 2024
Attachments: Letter 12 - RAI 2024 ICE1.doc

Attached is DRAFT RAI No. **12** 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 my 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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Letter 12 - RAI 2024 ICE1.doc		29178

Options

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DRAFT
5/26/2009

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

SRP Section: 07.01-A Appendix - Acceptance Criteria and Guidelines for Instrumentation and Control
Systems Important to Safety
Application Section: COL FSAR Chapter 7

QUESTIONS for Instrumentation, Controls and Electrical Engineering 1 (AP1000/EPR Projects) (ICE1)

07.01-A Appendix-1

Describe the associated component control and indication necessary for safe shutdown as related to the ultimate heat sink (UHS).

During safe shutdown the heat removal systems must operate to maintain adequate cooling of the core. 10 CFR Part 50, Appendix A, General Design Criteria (GDC) 44, is discussed as one of the acceptance criteria in Standard Review Plan (SRP) Appendix 7.1-A. GDC 44 states in part, "A system to transfer heat from structures, systems, and components important to safety, to an ultimate heat sink shall be provided...." Section 7.4 of the SRP references the acceptance criteria of Appendix 7.1-A as providing acceptance criteria to evaluate component control for safe shutdown. Describe the site-specific associated component control and indication necessary for safe shutdown as related to the ultimate heat sink (UHS).

07.01-A Appendix-2

Describe the site-specific post-accident monitoring (PAM) variables related to the ultimate heat sink (UHS), meteorological, and radiation monitoring.

10 CFR 52.79(a)(17) and 50.34(f)(2)(xvii) require, in part, continuous sampling of radioactive iodines and particulates in gaseous effluents from all potential accident release points, and for onsite capability to analyze and measure these samples. Additionally, 10 CFR Part 50, Appendix A, General Design Criteria (GDC) 13 requires, in part, that instrumentation be provided to monitor variables and systems over their anticipated ranges for normal operation, for anticipated operational occurrences, and for accident conditions. Regulatory Guide 1.97, Revision 4, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants," provides a basis for evaluating conformance to GDC 13. Regulatory Guide 1.97 endorses IEEE Std. 497-2002, "IEEE Standard Criteria for Accident Monitoring Instrumentation for Nuclear Power Generating Stations" which addresses selecting and categorizing post accident monitoring variables. Describe the site-specific post-accident monitoring (PAM) variables related to meteorological, radiation monitoring, and other site-specific instrumentation