

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; Colaccino, Joseph; Honcharik, John; Terao, David; Hearn, Peter; Weisman, Robert
Subject: Bell Bend COLA - Draft Request for Information No. 29 (RAI No.29)- CIB1 - 2268
Attachments: Letter 29 - RAI 2268 CIB1.doc

Attached is DRAFT RAI No. **29** 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
Created By: Michael.Canova@nrc.gov

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Letter 29 - RAI 2268 CIB1.doc	29690	

Options

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DRAFT
6/2/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 03.05.01.03 - Turbine Missiles
Application Section: 3.5.1.3

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects)
(CIB1)

03.05.01.03-1

COL information item 3.5-2 in the U.S. EPR FSAR, Rev. 0, Tier 2, Ch. 1, Table 1.8-2 states that the COL applicant will confirm that the probability of turbine missile generation for the selected turbine generator, P1, is less than 1×10^{-4} for turbine-generators favorably oriented with respect to containment. Section 3.5.1.3 of the Bell Bend COL FSAR states that a turbine missile analysis has been developed for the selected turbine design, and includes charts on missile generation probabilities of turbine rotor failure versus service time for the high pressure/intermediate pressure and low pressure turbine rotors consistent with the guidance in RG 1.115, and is available for review. It should be noted that Section 10.0 of the Bell Bend COL FSAR states that the turbine generator is an Alstom design. Section 10.2 states that it meets the requirements of Section 10.2 of the U.S. EPR FSAR. To determine whether the turbine missile generation probability is less than 1×10^{-4} , which establishes the inspection interval of the turbine rotors, the staff requests that the applicant provide the turbine missile generation probability analysis to the staff for review.

03.05.01.03-2

Section 3.5.1.3 of the Bell Bend COL FSAR states that the turbine rotor inspection program is described in the U.S. EPR FSAR, Section 10.2, and is consistent with the turbine manufacturer's recommended inspection intervals required to meet the calculated failure probability of the turbine rotor. In response to the NRC staff's RAIs, AREVA stated that U.S. EPR FSAR, Tier 2 Section 10.2.3.6 will be changed to call for the performance of inservice inspections consistent with the inspection intervals derived from the turbine manufacturer's turbine missile analysis and provided by the COL applicant. Therefore, the NRC staff requests that the applicant submit to the staff for review a corresponding turbine inspection program description, including an inspection interval that follows the guidance of SRP Sections 3.5.1.3 and 10.2.3.