

BellBendCOLPEm Resource

From: Canova, Michael
Sent: Wednesday, April 22, 2009 8:10 AM
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Cc: BellBendCOL Resource; Weisman, Robert
Subject: Bell Bend COLA - Draft Request for Information No. 3 (RAI No. 3)- RSAC - 2423
Attachments: letter 3 - RAI 2423 RSAC.doc

Attached is DRAFT RAI No. 3 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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DRAFT
4/22/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 02.03.03 - Onsite Meteorological Measurements Programs
Application Section: Section 2.3.3

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.03-1

Standard Review Plan (SRP) Section 2.3.3, Section II (Acceptance Criteria), SRP Acceptance Criterion (2) and Regulatory Guide 1.206, *Combined License Applications for Nuclear Power Plants* (June 2007) (Reg Guide 1.206), Section C.I.2.3.3 (Para. 2 & 3), call for the submittal of an hour-by-hour listing of the hourly-averaged parameters in the format described in Regulatory Guide 1.23, Rev. 1, *Meteorological Monitoring Programs for Nuclear Power Plants* (March 2007) (Reg Guide 1.23). Regulatory Guide 1.194, *Atmospheric Relative Concentrations for Control Room Radiological Habitability Assessments for Nuclear Power Plants* (June 2003) (Reg Guide 1.194), Section C.3.1 provides information on the structure and content of the meteorological data set and related input parameters used by the ARCON96 dispersion model.

Please provide the following validated data sets for the 2001 to 2007 period of record (POR) that corresponds to the data used in the dispersion modeling analyses in the combined license final safety analysis report (COL FSAR), Sections 2.3.4 and 2.3.5:

(a) Sequential hourly data listings in the format specified in Appendix A of Reg Guide 1.23. Please provide this data as ASCII-character files in electronic format on CD-ROM or DVD, with a separate file for each year in the POR. The Staff requests that each composite data set correlate with the joint frequency distribution (JFD) tables of wind speed, wind direction, and atmospheric stability and other onsite data summaries presented in COL FSAR Section 2.3.

(b) Sequential hourly data set(s) input to the ARCON96 dispersion model in a manner consistent with the suggested format in Appendix A of Reg Guide 1.194. The Staff requests that the values in this composite data set correlate with the sequential hourly data set in Item (a) above.

02.03.03-2

Regulatory Guide 1.23, Rev. 1, *Meteorological Monitoring Programs for Nuclear Power Plants* (March 2007) (Reg Guide 1.23), subsection C 5, at p. 10, contains the NRC's regulatory position on instrument maintenance and servicing schedules. Reg Guide

1.23 C.5 states that meteorological instruments should be inspected and serviced at a frequency that will ensure data recovery of at least 90 percent on an annual basis. This specification applies to individual meteorological parameters as well as the composite of all other variables needed to model atmospheric dispersion for each potential release pathway.

Reg Guide 1.23 C.6, which contains the NRC's regulatory position on data reduction and compilation, provides that meteorological monitoring systems should use electronic digital data acquisition systems to record data, and describes the formats in which the data should be compiled and displayed. This Reg Guide also describes the types of data that must be recorded, compiled and displayed, such as wind speed, wind direction, and temperature, as well as the frequency of digital sampling.

Provide the methodology used to reach the conclusions in the combined license application final safety analysis report (COL FSAR), Section 2.3.2 (Para. 3), that the data recovery goal of 90%:

- (1) "was met for each of the six years of data (2001-2006) used for meteorological statistics other than the joint frequency distribution tables;" and
- (2) "for each of the seven years of data (2001-2007) used for joint frequency distribution tables used to determine atmospheric dispersion and deposition factors."

Please also provide all information that supports the methodology used to reach these conclusions. Such information could include:

(1) a listing of the percent data recoveries for each year and the composite period of record (POR) for:

- (a) individual parameters;
- (b), the joint recovery of wind speed and wind direction (for each wind measurement level);
- (c) the joint recovery of wind speed, wind direction, and atmospheric stability class (for each wind measurement level); and

(2) the number of hours (by year and parameter), if any, of data substitution to supplement data recovery; and

(3) a description of the alternate sources of meteorological data relied upon to reach these conclusions.