

Callaway2COLPEm Resource

From: Surinder Arora
Sent: Thursday, May 21, 2009 12:45 PM
To: Shafer, David E
Cc: Callaway2COL Resource; Joseph Colaccino; Ann Hodgdon; Ronaldo Jenkins; Swagata Som; James Steckel; NPUnit2-EPR@ameren.com
Subject: Final RAI N0. 14 (eRAI 2562) - Public
Attachments: FINAL RAI 2562.doc

Dave,

Attached please find the subject request for additional information (RAI). A draft of this RAI was provided to you on April 28, 2009. Based on the phone call on May 19, 2009, the RAI did not need any changes.

The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a schedule date for submitting your technically correct and complete response will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the review schedule.

Thanks.

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Request for Additional Information No. 2562
5/21/2009

Callaway Unit 2
AmerenUE
Docket No. 52-037
SRP Section: 08.03.01 - AC Power Systems (Onsite)
Application Section: 8.03.01

QUESTIONS for Electrical Engineering Branch (EEB)

08.03.01-1

Section 8.3.1.1, Description:

This section indicates that the Figures 8.3-1 through 8.3-4 provide the site-specific modifications. The drawings are not provided with modification highlights with addition/deletion from EPR standard design. Identify the modifications by highlighting with cloud or notation of revision for clarity. Also the connection symbols for circuits continuation are not consistent (example - the sheet number annotated as NPSS01 or 12UPS01 are not found).

Correct the switchyard voltage to site-specific 345 kV in EPSS single line, where it is shown as 500 kV. Indicate switchyard voltage as 345 kV in all other places in lieu of "site-specific."

Provide revised corrected drawings.

08.03.01-2

Section 8.3.1.1.3, Electric Circuit Protection: This section states that there are no departures or supplements. Confirm that Degraded Voltage Protection (DVP) Scheme will be specified and a site-specific calculation will be performed to confirm the design and identify this site-specific information in FSAR Section 8.3.1.1.3 as a supplemental information item. Callaway Unit 2 Technical Specification Section 3.3.1 Table 2 (Items 10.a and 10.b on page 5 of 6) provides site-specific DVP setpoints and time delays for Emergency Diesel generator (EDG) start on Degraded Grid Voltage and on Loss of Offsite Power (LOOP).

Provide details how the DVP setpoints range and time delays were selected, describe how these (setpoints and time delays) are consistent with Branch Technical position (BTP 8-6), and justify any inconsistencies with BTP 8-6 or industry for instrument setpoint determination.

Also explain whether the above trip setpoints should be set differently when the alternate feed is established for the duration of an EDG being inoperable (i.e., 120 days).

08.03.01-3

Figure 8.3-1, EPSS Single Line Diagram, contains a typographical error. Figure 8.3-1 shows two 30BDT02 transformers (EATs). Applicant needs to correct Figure 8.3-1 to show one as 30BDT01 and the other as 30BDT02.

08.03.01-4

Section 8.3.1.1.8, Raceway and Cable Routing:

This section identifies the safety related distribution system for the Essential Service Water Emergency Makeup System (ESWEMS) and the pumphouse electrical building. However, site- specific details for the raceway and cable routing are not addressed. Applicant should confirm that the US EPR FSAR (DCD) is incorporated by reference for the raceway & cable routing design such as load group segregation and other design aspects for the ESWEMS electrical power distribution system and electrical equipment building.

08.03.01-5

Section 8.3.1.3, Electrical Power System Calculation and Distribution System Studies for AC system:

Confirm that electrical power system calculation and studies for this site will envelop the site-specific systems such as ESWEMS with safety related equipment to analyze the AC distribution system.