

Callaway2COLPEm Resource

From: Surinder Arora
Sent: Tuesday, March 24, 2009 4:10 PM
To: Shafer, David E
Cc: Callaway2COL Resource; Joseph Colaccino; Ann Hodgdon; Theresa Clark; Lynn Mrowca; NPUnit2-EPR@ameren.com; John Rycyna
Subject: RAI No. 3 (eRAI No. 2305) - Public
Attachments: RAI 2305.doc

Dave,

Attached please find the subject request for additional information (RAI). A draft of this RAI was provided to you on March 16, 2009. Based on my telephone discussion with you today, no phone call was required to discuss this RAI.

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.

SURINDER ARORA, PE
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From: Surinder Arora

Created By: Surinder.Arora@nrc.gov

Recipients:

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Callaway Unit 2

AmerenUE

Docket No. 52-037

SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation

Application Section: 19.1.4

QUESTIONS for PRA Licensing, Operations Support and Maintenance Branch 1 (AP1000/EPR Projects) (SPLA)

19-8

(Follow-up to Question 19-2) The response to Question 19-2 provides additional information on the derivation of the failure frequency and probability for the circulating water system (CWS) and normal heat sink (NHS), represented by the undeveloped event "SUP UHS NS." The undeveloped event has a failure frequency of $1E-2$ per year (/yr) and a failure probability of $2.8E-5$ over a 24-hour mission time. However, it is unclear that these values bound all failure modes of the CWS and NHS. For example, the staff observes that the CWS has four 25-percent trains, and NUREG/CR-6928 indicates that the probability of a motor-driven pump failing to run over a 24-hour mission time may be as high as $1E-4$. Provide additional information (e.g., system design, success criteria for both initiating events and mitigating functions, failure probabilities) to demonstrate that the plant-specific CWS and NHS are bounded by the undeveloped event "SUP UHS NS."