CCNPP3eRAIPEm Resource

From: Arora, Surinder
Sent: Wednesday, October 31, 2012 12:59 PM
To: Infanger, Paul; UNECC3Project@unistarnuclear.com
Cc: CCNPP3eRAIPEm Resource; Segala, John; Wilson, Anthony; Andersen, James; Kang, Peter; Mitra, Sikhindra; McLellan, Judith
Subject: CCNPP3 - Final RAI 380 EEB 6829
Attachments: FINAL RAI 380 EEB 6829.doc

Paul,

Attached is the final version of RAI 380 (eRAI 6829). The draft of this RAI was sent to you on October 23, 2012. This is a Phase 4 RAI on chapter 8 and as noted in the transmittal for the draft RAI, this RAI is issued in reference to NRC Bulletin 2012-01. Based on your email of October 26, 2012, stating that UniStar does not require a clarification on the question in this draft RAI, this email is transmitting the final version of the RAI with no changes.

The schedule that we have established for review of your application assumes that your technically complete response to the RAI question or a schedule for providing the response must be received within 30 days of the final RAI. Please note that if you are providing a response schedule in lieu of the technically complete response, the staff will re-evaluate the completion schedule of the chapter based on your proposed response date.

Additionally, please make sure that your response letter includes a statement whether or not your response contains any sensitive or proprietary information.

Thanks.

SURINDER ARORA, PE
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Sent Date: 10/31/2012 12:59:20 PM
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From: Arora, Surinder

Created By: Surinder.Arora@nrc.gov

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Options
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Request for Additional Information 380 (eRAI 6829)

Issue Date: 10/31/2012
Application Title: Calvert Cliffs Unit 3 - Docket Number 52-016
Operating Company: UniStar
Docket No. 52-016
Review Section: 08.02 - Offsite Power System
Application Section:

QUESTIONS

08.02-11

On July 27, 2012, the NRC issued Bulletin 2012-01, “Design Vulnerability in Electric Power System,” (Agencywide Documents Access and Management System (ADAMS) Accession Number ML12074A115) to all holders of operating licenses and combined licenses for nuclear power reactors requesting information about the facilities’ electric power system designs, in light of the recent operating experience that involved the loss of one of the three phases of the offsite power circuit (single-phase open circuit condition) at Byron Station, Unit 2 to verify compliance with applicable regulations and to determine if further regulatory action is warranted.

In order to verify that the applicants of new reactors have addressed the design vulnerability identified at Byron in accordance with the requirements specified in General Design Criterion (GDC) 17, “Electric Power Systems,” in Appendix A, “General Design Criteria for Nuclear Power Plants,” and the design criteria for protection systems under 10 CFR 50.55a(h)(3), please provide the following information:

- Describe the protection scheme design for important to safety buses (31-34BDA) to detect and automatically respond to a single-phase open circuit condition or high impedance ground fault condition on credited offsite power circuits.

- If the important to safety buses are not powered by offsite power sources during at power condition, explain how the surveillance tests (e.g., SR 3.8.1.1) are performed to verify that a single-phase open circuit condition or high impedance ground fault condition on an off-site power circuit is detected.

- Describe the plant operating procedures including off-normal operating procedures, specifically call for verification of the voltages on all three phases of the ESF buses?