PMSTPCOL PEmails

From: Muniz, Adrian
Sent: Monday, November 02, 2009 3:32 PM
To: rhbense@stpegs.com
Subject: Chapter 8 Draft Supplemental RAI 3848
Attachments: RAI 3848.doc

Richard:

I have attached to this electronic communication a draft request for additional information (RAI) for Chapter 8 of the STP COLA. If you need a conference call to clarify the requested information, please contact me. If a conference call is not needed, please send me an email and I will continue the formal process of issuing the RAIs to STPNOC.

Thanks,

Adrian Muñiz, USNRC
Chapter 8 PM

Hearing Identifier: SouthTexas34Public_EX
Email Number: 1840

Mail Envelope Properties (Adrian.Muniz@nrc.gov20091102153100)

Subject: Chapter 8 Draft Supplemental RAI 3848
Sent Date: 11/2/2009 3:31:43 PM
Received Date: 11/2/2009 3:31:00 PM
From: Muniz, Adrian

Created By: Adrian.Muniz@nrc.gov

Recipients:
"rhbense@stpegs.com" <rhbense@stpegs.com>
Tracking Status: None

Post Office:

Files	**Size**	**Date & Time**
MESSAGE	436	11/2/2009 3:31:00 PM
RAI 3848.doc	31738	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Request for Additional Information No. 3848 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 01 - Introduction and Interfaces
Application Section: 08.01

QUESTIONS for Electrical Engineering Branch (EEB)

01-***

RAI 08.01-1S

In response to RAI 08.01-1, the applicant stated that the Regulatory Guides (RG) that are applicable to the ABWR design are provided in ABWR DCD, Tier 2, Table 1.8-20. In particular, the applicant stated that:

(a) Because RG 1.160 was not listed in ABWR DCD, Tier 2, Table 8.1-1, there was no departure to this portion of the certified design and as such no change is required. The applicant also stated that this RG was applicable to the plant-specific Maintenance Rule Program.
(b) RG 1.182 was applicable to the plant-specific Maintenance Rule Program
(c) RG 1.180 relates to Instrument and Controls (I&C) platform departures and that is not applicable to the Electrical Power System and, therefore, no changes to FSAR Table 8.1-1 were required for this item.
(d) Because RG 1.204 was also added to FSAR Section 8A.1.2 in COLA Revision 2, the RG would be also added to FSAR Table 8.1-1.

The staff does not agree with the applicant's position regarding item (c).
Operating experience indicates that solid state and digital components are being used in many safety-related systems, including the electrical power system. Electromagnetic interference (EMI) and radio-frequency interference (RFI), and power surges have been identified as environmental conditions that can affect the performance of safety-related electrical equipment. GDC 4 requires that SSCs important to safety shall be designed to accommodate the effects of and to be compatible with the environmental conditions associated with normal operation, maintenance, testing, and postulated accidents, including LOCAs. Such environmental effects could result in the common cause/common mode failure of independent and redundant system and component. The staff requests the applicant to discuss whether solid state and digital devices are being used in the STP electrical power system. If such devices are being used, the applicant is requested to discuss how the GDC 4 requirements will be met for solid state and digital components regarding the EMI/RFI and power surges.