PMSTPCOL PEmails

From: Foster, Rocky
Sent: Wednesday, May 27, 2009 2:47 PM
To: Stillwell, Daniel
Cc: STPCOL
Subject: Draft RAI 2712 <Publically Available>
Attachments: Draft RAI 2712.pdf

Bill,

Attached is the final set of RAIs for Chapter 19 of the STP COLA. Please review and provide me with feedback on need for clarification, or if I can formally issue them to STP as is.

I'll call you at 3:00 PM (your time) to discuss the call times and I would also like to talk with you concerning the RAIs in 2754.

Thanks,

Rocky D. Foster
Project Manager
US Nuclear Regulatory Commission
Office of New Reactors
Division of New Reactor Licensing
ESBWR/ABWR Project 2
(301) 415-5787
rocky.foster@nrc.gov

Hearing Identifier: SouthTexas34Public_EX
Email Number: 1266

Mail Envelope Properties (3D27D29AB75BCD4BAE913B63CBFBBEDFDC7EFDB8F5)

Subject: Draft RAI 2712 <Publically Available>
Sent Date: 5/27/2009 2:46:55 PM
Received Date: 5/27/2009 2:46:57 PM
From: Foster, Rocky

Created By: Rocky.Foster@nrc.gov

Recipients:
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"Stillwell, Daniel" <dwstillwell@STPEGS.COM>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	565	5/27/2009 2:46:57 PM
Draft RAI 2712.pdf	15361	

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

Request for Additional Information No. 2712 Revision 0

4/28/2009

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: Chapter 19

QUESTIONS for PRA Licensing, Operations Support and Maintenance Branch 2 (ESBWR/ABWR Projects) (SPLB)

19-***

STD DEP 7.7-1, RPV Water Level Instrumentation

On RPV water level instrumentation, the ABWR DCD mentioned that all instrument lines are flushed even when they do not need to be. The STP design addresses condensable gas build up in the RV reference leg water level instrumentation by using CRD to continually flush the instrument lines. The staff recognizes that the CRD system may not be operating in Modes 4 and 5 since it is not required to operate in Modes 4 and 5 according to Technical Specifications. Therefore, the staff requests STP to address how STP intends to flush the instrument lines during Modes 4 and 5 and how this action will be controlled.

19-***

STD DEP 10.4-5 Condensate and Feedwater System

In Section 19.L.7.2 of the STP FSAR, a list of core cooling systems that satisfy the core cooling system success criteria are listed. However, this list only contains pumps with the capability to keep the core covered. The core heat removal path is not listed such as (1) the number of SRVs that need to be opened to remove heat from the vessel or (2) where the core heat is to be discharged such as the suppression pool given an extended loss of DHR. The success criteria needs to be augmented to include all SSCs in the heat removal path, not just the list of injection paths.

19-***

STD DEP 1.1-2 Dual Units at STP 3 and 4

The STP FSAR describes a dual unit site compared with the ABWR DCD which describes a single unit site. In the FSAR, STP stated that the shared fire water system between STP 3&4 is not expected to result in any changes to the assessed risk associated with shutdown since the frequency for both units being in a shutdown condition and requiring backup cooling is extremely small. Since (1) there are currently no administrative controls precluding both units entering into a refueling outage or

entering a forced outage simultaneously and (2) the Abnormal Procedures for STP 1&2 require a plant shutdown prior to the occurrence of a hurricane, the staff needs additional information to conclude that the shared fire water system does not result in any change to shutdown risk. The staff requests STP to evaluate quantitatively the core damage frequency resulting from a postulated dual unit SBO event given a grid-related or severe weather loss of offsite power (includes hurricanes and tornadoes) during Modes 4 and 5.