Christine Briggs

From: Eugene Eagle
Sent: Monday, November 19, 2007 10:44 AM
To: Mark Tonacci
Cc: Eugene Eagle; Ian Jung
Subject: Re: ACTION: ABWR Stability LTR review for ICE2 RAI

Hi Mark,

No Problem; thanks for keeping us informed.

Gene Eagle

>>> Mark Tonacci 11/19/2007 8:01 AM >>>
Eugene - these look like good questions. However, at present GE is not supporting any of the topical reports. They are in some type of contractural negotiaitons with Toshiba/STP. Until that is resolved they have stopped providing support for the ABWR topical reports. As soon as they turn the support back on I will forward your information. I am hoping the renewal of support will be soon!!

Mark

>>> Eugene Eagle 11/15/2007 6:30 PM >>>
Ian,

ACTION: If these RAI look OK to you could indicate so to Mark Tonacci.

I have reviewed the GE License Topical Report (LTR)
NEDO-33336 (June 2007, Class 1), "Advanced Boiling Water Reactor (ABWR) Stability Evaluation" .

This LTR is in support of changes to the ABWR DCD and for STP 3&4 COLA to reference. Generic Technical Specifications (TS) changes are included in the scope of this LTR and includes justification for the changes under the ABWR design certification rule. Further, this LTR provides the analysis to implement the long-term stability solution designed as Option III by the BWR Owner's Group (BWROG) for the ABWR approved by the NRC staff.

This LTR is a companion document to the LTR NEDO-33328, "Advanced Boiling Water Reactor (ABWR) APRM Oscillation Monitoring Logic", for which we submitted ICE2 RAI earlier and which covers the hardware and software of the OPRM subsystem.

This LTR is mainly the concern of the Nuclear Engineers . We will be working closely with them on the SER.

However, I have a couple RAI (attached).

Gene Eagle

D17

Attachment to email

REQUEST FOR ADDITIONAL INFORMATION (RAI)
Instrument and Controls Branch 2

ABWR Licensing Topical Report (LTR) NEDO-3336

"Advanced Boiling Water Reactor (ABWR) Stability Evaluation"

1) Question RAI-B1. Both in Table 5 , "Parameters used in the Statistical HCOM Determination", on page 19 and in Appendix B, Table 1, "ABWR Information for Stability Option II Application", information is presented on hardware and instrument delay times. This information includes four items that made up the "Total Scram Delay (msec) sum of a, b, c, & d"; where a. is the response time of OPRM hardware, b. the response time of the RPS, c. the CRD delay to start of rod motion, and d. time to insert control rods 2 feet into the core at minimum tech spec speed. Please provide the source and/or basis for these times.

2) Question RAI-B2. In Appendix B, Figures 1 through 4, labeled, "OPRM Assignments (Channel X) for ABWR", [where X is the Channel number, A, B, C, or D respectively]. The OPRM cell is represented by the small circle with the arrows pointing outward from the small circle. The large circles are assumed to represent the LPRMs. Please provide a legend that identifies all numbers and symbols for these figures. [Basis: document must be readable and understandable to be able to apply the acceptance criteria].