



U.S. EPR Instrumentation and Control Medium Priority Issues

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Purpose

- Identify any new instrumentation and control issues.
- Identify issues outside of data communications that need to be resolved.



New Issues

- There are no new issues that have not been identified in requests for additional information (RAIs).
- Changes to the design, or submittal of new information, could result in additional RAIs.
- Following slides identify particular issues that still need resolution based on prior RAIs.
- NOTE: Not all RAIs are identified in the slides, only the more significant ones.



Section 7.1

- The following RAI response contained an attachment with problematic wording
 - Response to RAI 321, Question 07.01-19
 - AREVA NP was informed in a public meeting that the language found on page 7.1- 5, Revision 2 – Interim, Tier 2, Section 7.1.1.2.1, titled TXS Platform Design, was not appropriate and needed to be removed. The language appears in the attachment to the RAI response for 07.01-19, as a change in the text; however, it is not mapped to the RAI response for 07.01-19.
 - The text that is inappropriate is as follows:
 - Modified, upgraded or new TXS hardware modules and system software modules will be used in the U.S. EPR **without further NRC review** provided they conform to the key TXS principles, features, and methods described ...”



Section 7.1 (cont.)

- AREVA NP is commercial grade dedicating the Safety Information and Control System (SICS) platform as indicated in RAI 321 Question 07-19. Identification of the critical characteristics and a description of the commercial grade dedication plan is needed. An RAI will be issued.



Section 7.1 (cont.)

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- AREVA NP stated that they would provide final responses for the Priority Actuation and Control System 100 percent combination testing by October 28, 2010.
 - RAI 373 Question 07.01-23
 - All internal states need to be directly observable and testable
 - RAI 323 Question 07.01-24
 - All internal states need to be directly observable and testable
 - RAI 323 Question 07.01-25
 - Clarification on exactly which parts of the TELEPERM XS quality assurance program are being used



Section 7.8

- AREVA NP proposed design changes to the Diverse Actuation System (DAS) design on June 25, 2010. Staff is awaiting submittal of design changes.
- Staff is continuing the review of the best-estimate analysis for defense-in-depth and diversity, but design changes may affect it as well.



Section 7.8

- Staff issued 32 SRP Section 7.8, RAIs, to applicant [RAI No. 413(4772), Revision 1] on August 9, 2010. Staff is currently waiting on applicant's responses to continue with evaluation.