

ArevaEPRDCPEm Resource

From: Tesfaye, Getachew
Sent: Friday, August 27, 2010 11:08 AM
To: BRYAN Martin (EXTERNAL AREVA)
Cc: Jackson, Terry; Canova, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: Draft Fifth RAI - ANP-10272 - Software Program Manual Topical Report
Attachments: 5th Request for Additional Information - ANP-10272 - SPM.DOC

Marty,

Attached please find a draft of the fifth round of RAIs for the Software Program Manual Topical Report (ANP-10272). We will have our technical Staff available to discuss them with you as soon as you are ready. Please call me with a proposed date and time for the telecon.

Please also review the RAI to ensure that we have not inadvertently included proprietary information. If there are any proprietary information, please let me know within the next ten days. If I do not hear from you within the next ten days, I will assume there are none and will make the draft RAI publicly available.

Thanks,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP

Hearing Identifier: AREVA_EPR_DC_RAIs
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Subject: Draft Fifth RAI - ANP-10272 - Software Program Manual Topical Report
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From: Tesfaye, Getachew

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Options

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DRAFT

FIFTH REQUEST FOR ADDITIONAL INFORMATION (RAI)

**ANP-10272, "SOFTWARE PROGRAM MANUAL FOR TELEPERM XS™ SAFETY SYSTEMS
TOPICAL REPORT"**

RAI 88. Question:

Appendix C (page C-33) described asynchronous execution of send/receive functions by the processing units IF NO EXPEDITED MESSAGES are sent via the serial bus links. The staff requested via telcon on July 1, 2010, clarification as to the nature of these previously unidentified expedited messages. AREVA responded on July 8, 2010 (Accession No. ML101930134), identifying citations issued by Institut for Sicherheitstechnologie (Institute for Safety Technology known as ISTec) and Technischer Uberwachungs-Verein (German Technical Monitoring Association known as TUV) as part of the original Teleperm system test certifications. The staff requests this descriptive information be included within the body of the software program manual.

Concern:

The "expedited messages" prioritization is a translational issue that cannot be directly inferred from the submitted material without explanation. Further, the subject IRE interrupt trigger identified in the July 8, 2010 letter is of sufficient significance to warrant being identified to the SPM user, and being specifically addressed in the staff's finding on safety.

RAI 89. Question:

Several statements in the secure development/operational environment section (SDOE), Appendix C, Annex 1, related to data communications don't appear applicable to SDOE, and are currently contrary to the staff's position relative to the acceptability of the communications architecture for the Service Unit in addressing U.S. EPR safety related systems.

AREVA is requested to remove this information to facilitate the completion of the SPM topical report activity or at their option they may postpone completion of the SPM review until the communications issues are resolved (including any applicable revisions).

Concern:

The information contained is in direct conflict with staff's stated positions regarding the service unit and its continuous connection to safety systems. Until these issues have been resolved the presence of this information within the SPM will generate a negative safety finding. Since the information is not germane to the SPM's function, the removal of this information will allow the staff to complete its safety evaluation for the subject report.

DRAFT

FIFTH REQUEST FOR ADDITIONAL INFORMATION (RAI)

**ANP-10272, "SOFTWARE PROGRAM MANUAL FOR TELEPERM XS™ SAFETY SYSTEMS
TOPICAL REPORT"**

Applicant Reference(s):

The following is a list of examples, though it is not exhaustive:

ANP-10272

Section C.4.2.2 last paragraph reference to Annex 1
Appendix C, Annex 1, section 3.0

RAI 90. Question:

Regarding the SPM's Appendix D, "Change Control Process," the staff requests that AREVA evaluate the following to support final issuance of the SPM.

The staff would like AREVA to understand that the interactions on this issue in support of the Software Program Manual, when taken in conjunction with similar topical report evaluations has influenced the staff's perception of the described program's level of completeness and acceptability, as currently identified in this appendix.

The staff requests AREVA to consider supporting additional development of the TR change control program (CCP) in order to expeditiously allow for approval of the appendix D program for use with the TR.

With that in mind, the staff would propose in order of preference that:

1. AREVA continue to work with NRC staff to develop the CCP for approval and use along with their platform TR, or
2. AREVA withdraw Change appendix D from the topical report to assure that the approval of the SPM is not unduly impacted through this adjunct appendix. The staff recommends that as the appendix D CCP is directly related to the TELEPERM XS platform, it forms a sound basis for submittal as a separate topical report on the subject that will have value to AREVA NP. This approach is similar to that being presented and receiving favorable attention on other dockets.

If AREVA NP desires to continue along the path of Option 1, the staff will continue review interactions on the appendix to achieve that end. The schedule, predictable would be extended. Option 2 requires a commitment by AREVA to change the current SPM by removal of the appendix on publication. Any actions on a separate CCP topical report would proceed on its own timeline, without impacting completion of the review of the SPM.