

US-APWRRRAIsPEm Resource

From: Ward, William
Sent: Thursday, February 21, 2013 5:28 PM
To: 'us-apwr-rai@mhi.co.jp'; US-APWRRRAIsPEm Resource
Cc: Hamzehee, Hossein; Ciocco, Jeff; Jung, Ian; Taneja, Dinesh; 'Erin Wisler'
Subject: US-APWR Design Certification Application RAI 995-7024 (7.1)
Attachments: US-APWR DC RAI 995 ICE2 7024.pdf

MHI,

The attachment contains the subject request for additional information (RAI). This RAI was sent to you in draft form. Your licensing review schedule assumes technically correct and complete responses within 30 days of receipt of RAIs. However, MHI requests and we grant 60 days to respond to the RAI. We will adjust the schedule accordingly.

Please submit your RAI response to the NRC Document Control Desk.

Thank you,

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REQUEST FOR ADDITIONAL INFORMATION 995-7024

Issue Date: 2/21/2013

Application Title: US-APWR Design Certification - Docket Number 52-021

Operating Company: Mitsubishi Heavy Industries

Docket No. 52-021

Review Section: 07.01 - Instrumentation and Controls - Introduction
Application Section:

QUESTIONS

07.01-45

10 CFR 50.55a(a)(1) requires that structures, systems, and components (SSCs) must be designed, fabricated, erected, constructed, tested, and inspected to quality standards commensurate with the importance of the safety function to be performed.

IEEE Std. 603-1191, incorporated by reference via 10 CFR 50.55a(h), Section 5.3 requires that components and modules be of a quality that is consistent with minimum maintenance requirements and low failure rates.

GDC 1 requires quality standards and maintenance of appropriate records for SSCs important to safety.

US-APWR design control document (DCD) Tier 2 Section 7.1.3.13 states that the quality of PSMS components and modules (including the MELTAC platform) and the quality of the PSMS design process are controlled by a program that meets the requirements of ASME NQA-1-1994. Conformance to ASME NQA-1-1994 is described further in Section 17.5. Subsequently, in response to RAI 720-5539, Question 07.01-28, the applicant stated that only MELTAC platform or analog equipment is planned to be used for safety-related applications.

Since the applicant is not proposing to commercially dedicate any of the MELTAC platform hardware/software components, the staff requests the applicant to provide the following:

1. In accordance with the regulatory requirements and guidance for safety-related I&C systems, ensure that the technical and quality requirements (and any exceptions to regulations and guidance) for the safety-related I&C systems (including the MELTAC platform) design and development are identified in the US-APWR DCD and related technical and topical reports.
2. Ensure that the safety-related I&C systems' technical and quality requirements provided in the US-APWR design certification material are self-standing; and do not rely upon or reference any sub-vendor documents. In addition, ensure that the US-APWR DCD contains provisions to flow down these I&C technical and quality requirements to the applicable sub-vendors.
3. Ensure sufficiently clear ITAAC are specified in the US-APWR DCD to verify and validate the implementation process steps that confirm the quality of the as-built safety-related I&C systems in conformance with the applicable quality requirements, and that

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the implemented design meets the technical requirements.

4. Since the quality of the PSMS design and development process is controlled by a program that meets the requirements of ASME NQA-1-1994, the applicant is asked to remove any reference to commercial grade dedication (CGD) of the MELTAC platform components that may contradict the ASME NQA-1-1994 based program from the US-APWR DCD and related technical and topical reports.