

US-APWRRRAIsPEm Resource

From: Ciocco, Jeff
Sent: Tuesday, June 19, 2012 1:53 PM
To: us-apwr-rai@mhi.co.jp; US-APWRRRAIsPEm Resource
Cc: Welch, Christopher; Kowal, Mark; Andersen, James; Fitzpatrick, Robert; Martinez-Navedo, Tania; Ciocco, Jeff; Galvin, Dennis; Hamzehee, Hossein; Kallan, Paul; Monarque, Stephen; Murphy, Crystal; Otto, Ngola; Patel, Chandu; Reyes, Ruth; Roy, Tarun; Takacs, Michael; Ward, William
Subject: US-APWR Design Certification Application RAI 946-6475 (14.3.6, Tier 1, 2.6)
Attachments: US-APWR DC RAI 946 CITB 6475.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. MHI requests, and we grant, 60 days to respond to the RAI questions. The schedule will be adjusted accordingly.

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

Thank you,

Jeff Ciocco
US-APWR Projects
New Nuclear Reactor Licensing
301.415.6391
jeff.ciocco@nrc.gov



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From: Ciocco, Jeff

Created By: Jeff.Ciocco@nrc.gov

Recipients:

"Welch, Christopher" <Christopher.Welch@nrc.gov>
Tracking Status: None
"Kowal, Mark" <Mark.Kowal@nrc.gov>
Tracking Status: None
"Andersen, James" <James.Andersen@nrc.gov>
Tracking Status: None
"Fitzpatrick, Robert" <Robert.Fitzpatrick@nrc.gov>
Tracking Status: None
"Martinez-Navedo, Tania" <Tania.Martinez-Navedo@nrc.gov>
Tracking Status: None
"Ciocco, Jeff" <Jeff.Ciocco@nrc.gov>
Tracking Status: None
"Galvin, Dennis" <Dennis.Galvin@nrc.gov>
Tracking Status: None
"Hamzehee, Hossein" <Hossein.Hamzehee@nrc.gov>
Tracking Status: None
"Kallan, Paul" <Paul.Kallan@nrc.gov>
Tracking Status: None
"Monarque, Stephen" <Stephen.Monarque@nrc.gov>
Tracking Status: None
"Murphy, Crystal" <Crystal.Murphy@nrc.gov>
Tracking Status: None
"Otto, Ngola" <Ngola.Otto@nrc.gov>
Tracking Status: None
"Patel, Chandu" <Chandu.Patel@nrc.gov>
Tracking Status: None
"Reyes, Ruth" <Ruth.Reyes@nrc.gov>
Tracking Status: None
"Roy, Tarun" <Tarun.Roy@nrc.gov>
Tracking Status: None
"Takacs, Michael" <Michael.Takacs@nrc.gov>
Tracking Status: None
"Ward, William" <William.Ward@nrc.gov>
Tracking Status: None
"us-apwr-rai@mhi.co.jp" <us-apwr-rai@mhi.co.jp>
Tracking Status: None
"US-APWRRRAIsPEm Resource" <US-APWRRRAIsPEm.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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REQUEST FOR ADDITIONAL INFORMATION 946-6475 REVISION 3

6/19/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 14.03.06 - Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria
Application Section: Tier 1, 2.6

QUESTIONS for ITAAC Branch (CITB)

14.03.06-29

Tier 1 Table 2.6.1-3, ITAAC 6.b - In ITA and AC, please clarify that swap only occurs if UAT bus power is available.

14.03.06-30

Tier 1 Table 2.6.1-3, ITAAC 7 & 8, Please clarify ITAAC. Should it be "UATs **or** associated equipment", or "UATs **and** associated equipment"?

14.03.06-31

Tier 1 Table 2.6.2-2, ITAAC 3 - Please add an ITA and AC for a battery load test to verify the as-built battery can carry the max load as required.

14.03.06-32

Tier 1 Table 2.6.2-2, ITAAC 6 - Add an ITA and AC to test that each as-built battery charger performs as required under load.

14.03.06-33

Tier 1 Table 2.6.2-2, ITAAC 9 - What verifies the non-class 1E spare battery chargers (AB & CD) that tie into the Class 1E system?

14.03.06-34

Tier 1 Table 2.6.3-3, ITAAC 2 - The Design Commitment and Acceptance Criteria are not aligned with the ITA "worst case load currents".

14.03.06-35

Tier 1 Table 2.6.4-1, ITAAC 11 - The Acceptance Criteria is not adequately defined.

REQUEST FOR ADDITIONAL INFORMATION 946-6475 REVISION 3

14.03.06-36

Tier 1 Table 2.6.4-1, ITAAC 14.b - The ITAAC is not adequate. Define the required conditions, the bus is either de-energized and loads are shed, or not.

14.03.06-37

Tier 1 Table 2.6.4-1, ITAAC 17 - The ITA, DC, and AC are not consistent. Can the EPS respond to an auto start in the test mode whether running or not?

14.03.06-38

Tier 1 Table 2.6.4-1, ITAAC 22 - Tests and analysis should be in the ITA.

14.03.06-39

Tier 1 Table 2.6.4-1, ITAAC 31 - Please change the ITA to a test.

14.03.06-40

Tier 1 Table 2.6.5-1, ITAAC 10 - Specify the location in the MCR.

14.03.06-41

Tier 1 Table 2.6.5-1, ITAAC 13 - Add an ITA and AC to test that the SSC can perform its intended function.

14.03.06-42

Tier 1 Table 2.6.6-1 ITAAC 3, 4, 6 - Testing should be performed. What verifies the lights illuminate the proper target areas?

14.03.06-43

Tier 1 Table 2.6.7-1, ITAAC 2 - There should be some type of acceptance criteria, for example in accordance with design.

