

US-APWRRRAIsPEm Resource

From: Ciocco, Jeff
Sent: Thursday, June 28, 2012 11:05 AM
To: us-apwr-rai@mhi.co.jp; US-APWRRRAIsPEm Resource
Cc: VanWert, Christopher; Donoghue, Joseph; Reyes, Ruth
Subject: US-APWR Design Certification Application RAI 949-6537 (6.3)
Attachments: US-APWR DC RAI 949 SRSB 6537.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.

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



Hearing Identifier: Mitsubishi_USAPWR_DCD_eRAI_Public
Email Number: 19

Mail Envelope Properties (320204600EA7B9408FE833FF15E4FF7DAE230EF4F2)

Subject: US-APWR Design Certification Application RAI 949-6537 (6.3)
Sent Date: 6/28/2012 11:05:27 AM
Received Date: 6/28/2012 11:05:28 AM
From: Ciocco, Jeff

Created By: Jeff.Ciocco@nrc.gov

Recipients:

"VanWert, Christopher" <Christopher.VanWert@nrc.gov>

Tracking Status: None

"Donoghue, Joseph" <Joseph.Donoghue@nrc.gov>

Tracking Status: None

"Reyes, Ruth" <Ruth.Reyes@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

Files	Size	Date & Time
MESSAGE	490	6/28/2012 11:05:28 AM
US-APWR DC RAI 949 SRSB 6537.pdf		50156
image001.jpg	3989	

Options

Priority: Standard

Return Notification: No

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Recipients Received:

REQUEST FOR ADDITIONAL INFORMATION 949-6537 REVISION 1

6/28/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 06.03 - Emergency Core Cooling System

Application Section: 06.03

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

06.03-109

During the April 16-17, 2012 audit of the documents supporting the GSI-191 analysis for US-APWR, the staff reviewed the document 4CS-UAP-20120009 Rev. 0, which supports the cold leg break test source term time delay. The staff noted that in Appendix C, the applicant states that the RWSP water level is calculated by decreasing the water level velocity. This does not agree with other statements throughout the document and would be non-conservative. Confirm that the water velocity is not minimized in the time delay calculations and correct the supporting documentation as necessary.

06.03-110

During the April 16-17, 2012 audit of the documents supporting the GSI-191 analysis for US-APWR, the staff reviewed the document 4CS-UAP-20120009 (R0), which supports the cold leg break test source term time delay. Figure 2 of Appendix C (page 107 of 4CS-UAP-20120009) lists a value of 117 inches, but does not describe how this value was calculated. Explain the origin of the 117 inches value.

