US-APWRRAIsPEm Resource

From: Ciocco, Jeff
Sent: Thursday, August 22, 2013 7:06 AM
To: us-apwr-rai@mhi.co.jp; US-APWRRAIsPEm Resource
Cc: Haider, Syed; McKirgan, John; Reyes, Ruth; Kallan, Paul; Ward, William
Subject: US-APWR Design Certification Application RAI 1048-7204 (1.9.5)
Attachments: US-APWR DC RAI 1048 SCVB 7204.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. We will the adjust the schedule accordingly.

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

Thank you,

Jeff Ciocco
New Nuclear Reactor Licensing
301.415.6391
jeff.ciocco@nrc.gov

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

Hearing Identifier: Mitsubishi_USAPWR_DCD_eRAI_Public
Email Number: 114

Mail Envelope Properties (320204600EA7B9408FE833FF15E4FF7DF3F57337F1)

Subject: US-APWR Design Certification Application RAI 1048-7204 (1.9.5)
Sent Date: 8/22/2013 7:05:57 AM
Received Date: 8/22/2013 7:06:00 AM
From: Ciocco, Jeff

Created By: Jeff.Ciocco@nrc.gov

Recipients:
"Haider, Syed" <Syed.Haider@nrc.gov>
Tracking Status: None
"McKirgan, John" <John.McKirgan@nrc.gov>
Tracking Status: None
"Reyes, Ruth" <Ruth.Reyes@nrc.gov>
Tracking Status: None
"Kallan, Paul" <Paul.Kallan@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-APWRRAIsPEm Resource" <US-APWRRAIsPEm.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	521	8/22/2013 7:06:00 AM
US-APWR DC RAI 1048 SCVB 7204.pdf	86745	
image003.jpg	4840	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

REQUEST FOR ADDITIONAL INFORMATION 1048-7204

Issue Date: 08/21/2013

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

Operating Company: Mitsubishi Heavy Industries

Docket No. 52-021

Review Section: 06.02.01 - Containment Functional Design
Application Section: Section 1.9.5

QUESTIONS

06.02.01-26
Containment Integrity Acceptance Criteria and Temperature Transients

Recently, the staff issued RAI **1029-7076**, Question 06.02.01-25 under SRP Section 1.9.5, for evaluating the ELAP/LUHS mitigation capabilities for the US-APWR containment safety functions throughout the BDB external event, as outlined in the MHI Technical Report MUAP-13002, Revision 0. In the RAI **1029-7076** response, the applicant provided a summary of the US-APWR containment analyses and results for all 6 modes of operation. The results show that in all six modes of operation, the containment pressure does not exceed the ultimate containment pressure capacity limit (216 psia) within 72 hours, after which the containment pressure is reduced by the application of sprays. The applicant is requested to provide justification for using the ultimate containment pressure capacity limit as the acceptance criterion for the US-APWR containment safety functions under ELAP/LUHS and update the FSAR to include the identification of the acceptance criterion and a discussion of why that cirteion is appropriate in this instance. The applicant is also requested to provide the corresponding containment temperature transients and the associated acceptance criterion.


U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment