

## US-APWRRAlSPeM Resource

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**From:** Ciocco, Jeff  
**Sent:** Tuesday, October 09, 2012 8:38 AM  
**To:** us-apwr-rai@mhi.co.jp; US-APWRRAlSPeM Resource  
**Cc:** ODriscoll, James; McKirgan, John; Reyes, Ruth; Snyder, Amy; Hamzehee, Hossein  
**Subject:** US-APWR Design Certification Application RAI 966-6811 (6.2.6)  
**Attachments:** US-APWR DC RAI 966 SCVB 6811.pdf; image001.jpg

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,

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# Request for Additional Information 966-6811

Issue Date: 10/9/2012

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

Operating Company: Mitsubishi Heavy Industries

Docket No. 52-021

Review Section: 06.02.06 - Containment Leakage Testing  
Application Section: 6.2.6

## QUESTIONS

06.02.06-36

RAI 866-6149, Question 6.2.6-34

RAI 918-6316, Question 6.2.6-35

In a response dated June 7, 2012 to RAI 918-6316, Question No. 6.2.6-35, MHI provided a special test acceptance criterion that will be used as part of the primary containment leakage test program to ensure that the functions assumptions in the US-APWR DC radiological consequence analyses are met. These assumptions apply to the partial dual containment functions of the Penetration Areas and the AEES to reduce the amount of primary containment leakage that is released to the environment in a postulated accident.

Based on the proposed change to DCD Section 6.2.3, the staff will perform a review of those SSCs that perform this function using review guidance in NUREG 0800 SRP section 6.2.3.

Based on the response to RAI 918-6316, Question 6.2.6-35 the staff requests the following information as it relates to NUREG 0800 SRP section 6.2.6, Section II, acceptance criterion #5.

- 1) The staff notes that the additional acceptance criterion, which purpose is to ensure that the assumed secondary containment bypass leakage conforms with assumptions used in safety analyses, has been added to the US-APWR chapter 16 GTS section 5.5.16 paragraph d.1. The staff understands that the means by which secondary containment bypass leakage is monitored is the primary containment leakage rate program. However the proposed revision this paragraph does not make clear which acceptance criteria are associated with primary containment functional performance verification (i.e.  $<0.60$  La for type B and C tests combined, and  $.0.75$  La for Type A tests) and which are associated with secondary containment functional performance verification ( $<0.50$  for Type C tests). Staff requests the applicant revise Chapter 16 GTS section 5.5.16 to make clear which acceptance criteria of the program are associated with 10 CFR 50, Appendix J (*Primary* Reactor Leakage testing) and which criteria are associated with secondary containment leakage testing.

