

## Jeff Ciocco

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**From:** Jeff Ciocco  
**Sent:** Wednesday, April 30, 2008 7:08 AM  
**To:** us-apwr-rai@mhi.co.jp  
**Cc:** Larry Burkhart; Stephen Monarque; Tania Martinez-Navedo; David Curtis  
**Subject:** US-APWR Design Certification Application RAI No.3  
**Attachments:** US-APWR DC RAI 3 EEB 207.pdf

MHI,

Attached please find the subject request for additional information (RAI). This RAI was sent to you in draft form. The schedule we are establishing for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule. Please submit your RAI response to the NRC Document Control Desk.

Thanks,

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Request for Additional Information No. 3 Revision 0

4/30/2008

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 08.03.02 - DC Power Systems (Onsite)

Application Section: 08.03.02

**QUESTIONS**

**01-1**

Section 8.3.2 of the FSAR states that battery rooms are going to be ventilated to the outside to preclude hydrogen concentration of more than 2%. This is inconsistent with Regulatory Guide 1.128, "Installation Design and Installation of Vented Lead-Acid Storage Batteries for Nuclear Power Plants", Section C, Part 6, which states that "The ventilation system shall limit hydrogen accumulation to one percent of the total volume of the battery area." Provide your justification for using 2% maximum hydrogen concentration instead of the 1% maximum hydrogen concentration as recommended in Regulatory Guide 1.128.