

## US-APWRRRAIsPEm Resource

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**From:** Ciocco, Jeff  
**Sent:** Monday, March 04, 2013 10:43 AM  
**To:** us-apwr-rai@mhi.co.jp; US-APWRRRAIsPEm Resource  
**Cc:** Bongarra, James; Junge, Michael; Ward, William; Hamzehee, Hossein  
**Subject:** US-APWR Design Certification Application RAI 1007-7000 (18)  
**Attachments:** US-APWR DC RAI 1007 COLP 7000.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. However, MHI is currently working to provide the NRC with a schedule of ongoing HFE work. The schedule will include dates for the submission of this RAI response. We will adjust the schedule accordingly.

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

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## Request for Additional Information 1007-7000

Issue Date: 3/4/2013

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

Operating Company: Mitsubishi Heavy Industries

Docket No. 52-021

Review Section: 18 - Human Factors Engineering  
Application Section:

### QUESTIONS

18-248

MUAP-10014, R-2, P. iv, Abstract, states: "The human performance program is a catalyst...."

The term should be "human performance monitoring program...." Please correct.

18-249

MUAP-10014, R-2, P. 6, section 4.2.1, Identifying Human Performance Problems and Causes, states: "The US-APWR design includes computer based recording systems to collect and store plant data that may help to understand trends, , sequence of events, and conditions leading up to a problem..."

What are these systems and how will they be used as part of the HPM strategy? Are the systems the ones described below in the text? If so, parenthetically refer to them here first.

18-250

MUAP-10014, R-2, page 7, section, 4.2.4 Corrective Action Plans, states: "The corrective actions consist of:

- Training program upgrade
- Modification of Procedures
- Changes to HSI software
- HSI hardware upgrades"

This seems like an inclusive list. Is it meant to be or, are these just examples? For instance, maybe staffing needs to be modified but, it's not mentioned. Please clarify/explain.

18-251

In MUAP-10014, R-2, Page 9, section 4.3, "Results", the first paragraph states: "The implementation procedures are inspected to confirm compliance with this US-APWR HPM Implementation Plan for closure of the DCD Tier 1 ITAAC."

## Request for Additional Information 1007-7000

What ITAAC entry is being referred to here? There is no ITAAC (Tier 1, Rev. 3) for HPM. Consistency issue? Please explain.

