

Jeff Ciocco

From: Jeff Ciocco
Sent: Monday, August 11, 2008 2:19 PM
To: us-apwr-rai@mhi.co.jp
Cc: Tanya Ford; Joseph Donoghue; William Ward; Larry Burkhart
Subject: US-APWR Design Certification Application RAI No.47-839
Attachments: US-APWR RAI 47 SRSB 839 _2_.pdf

MHI,

Attached please find the subject request for additional information (RAI). This RAI was sent to you in draft form. The schedule we established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. However you have requested and are granted a 45 day response time. Please submit your RAI response to the NRC Document Control Desk.

Thanks,

Jeff Ciocco
Office: T-7F14
New Reactor Licensing
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2739
301.415.6391
jeff.ciocco@nrc.gov

REQUEST FOR ADDITIONAL INFORMATION NO. 47-839 REVISION 0

8/11/2008

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 05.04 - Reactor Coolant System Component and Subsystem Design

Application Section: 5.4.10

SRSB Branch

QUESTIONS

05.04-1

RAI 5.4.10-1

10 CFR 50.34(f)(2)(xiii), regarding TMI Action Item II.E.3.1, requires that the pressurizer heaters be provided with a sufficient power supply and associated motive and control power interfaces to establish and maintain natural circulation in hot standby conditions with only onsite power available. In Section 5.4.10.3.1 it states that the USAPWR design conforms to this requirement because the power supplied by the emergency power sources during a loss of offsite power is sufficient to establish and maintain natural circulation during hot standby conditions. Discuss the emergency power sources to be used to power the backup pressurizer heaters during a loss of offsite power. Also, state whether these emergency power sources are of a safety or non-safety grade design.