

Jeff Ciocco

From: Jeff Ciocco
Sent: Monday, July 07, 2008 1:56 PM
To: us-apwr-rai@mhi.co.jp
Cc: Richard Clement; Timothy Frye; Ngola Otto; Larry Burkhart; Harrison Botwin
Subject: US-APWR Design Certification Application RAI No. 29
Attachments: US-APWR DC RAI 29 CHPB 595.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. 29 REVISION 0

7/7/2008

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 11.01 - Source Terms

Application Section: SRP Sections 11.1, 2.4.13, 11.2

CHPB Branch

QUESTIONS

11.01-2

Pursuant to SRP section 2.4.13, the dose consequence analysis for liquid radwaste system failures must consider the "most adverse" contamination in groundwater. Tc-99, which is produced in the reactor core in amounts several orders of magnitude greater than I-129, becomes an important contributor to dose from groundwater because of its long half life and low retardation in soil. Pursuant to SRP sections 11.2 (BTP-11-6) and 2.4.13, please identify the Tc-99 concentrations in the primary and secondary coolant under design basis and realistic conditions. Please include these concentrations and the associated technical basis in FSAR Section 11.1, or justify their exclusion.