
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

08/13/2013

**US-APWR Design Certification
Mitsubishi Heavy Industries
Docket No. 52-021**

RAI NO.: NO. 1045-7141 REVISION 3
SRP SECTION: 03.08.05 – Foundations
APPLICATION SECTION: 3.8.5
DATE OF RAI ISSUE: 07/08/2013

QUESTION NO. 03.08.05-48:

On April 3, 2013, the applicant submitted a markup of DCD Tier 2 Section 3.8 to provide updated information related to a seismic design change.

In Subsection 3.8.5.1.1, "Reactor Building Complex," the last paragraph (page 3.8-95) states, "Outlines of the R/B [reactor building], PCCV [prestressed concrete containment vessel] and CIS [containment internal structure] including the basemat are provided in Figures 3.8.5-1 through 3.8.5-3".

According to Section 3.8.4.1, "Description of the Structures", of the DCD, the basemat supports the PCCV, CIS, R/B, east and west PS/Bs [power source buildings], ESWPC [essential service water pipe case] and the A/B [auxiliary building] Category I structures. However, in Figures 3.8.5-1 through 3.8.5-3 of the DCD, the figures show that the basemat supports only the PCCV, CIS, and the R/B. The applicant is requested to correct these figures to include the east and west PS/Bs, the ESWPC and the A/B structures.

ANSWER:

It is understood that Design Control Document (DCD) Figures 3.8.5-1 through 3.8.5-3 provide specific attention on the region of the basemat supporting the prestressed concrete containment vessel (PCCV), containment internal structure (CIS), and reactor building (R/B). It is appropriate to revise these figures to reflect the inclusion of the east power system building (PS/B), west PS/B, auxiliary building (A/B) and essential service water pipe chase (ESWPC). The next revision of the DCD will include the revised figures shown in Attachments 1 and 2 (Figures 3.8.5-1 and 3.8.5-3, respectively). Figure 3.8.5-2 was reviewed and determined to not require any changes.

Impact on DCD

Figures 3.8.5-1 and 3.8.5-3 will be revised as shown in Attachments 1 and 2, respectively.

Impact on R-COLA

There is no impact on the R-COLA.

Impact on PRA

There is no impact on the PRA.

Impact on Technical/Topical Report

There is no impact on the Technical/Topical Report.

This completes MHI's response to the NRC's question.

3. DESIGN OF STRUCTURES, SYSTEMS,
COMPONENTS, AND EQUIPMENT

MIC-03-03-
00057
DCD_03.08.
05-48

Security-Related Information - Withheld Under 10 CFR 2.390

Figure 3.8.5-1 Floor Plan of 1F (El. -3'-7")

MIC-03-03-
00057

DCD_03.08.
05-48

Security-Related Information - Withheld Under 10 CFR 2.390

Figure 3.8.5-3 Cross Section of an East-West Orientation