

REQUEST FOR ADDITIONAL INFORMATION 812-5983 REVISION 3

8/23/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 03.07.02 - Seismic System Analysis

Application Section: 3.7.2

QUESTIONS for Structural Engineering Branch 1 (AP1000/EPR Projects) (SEB1)

03.07.02-109

In section 3.7.2.1 of the DCD (R3), the Applicant stated that the seismic response of standard plant seismic category I and II structures is obtained from site-independent analyses performed using three-dimensional SSI models with the program ACS SASSI.

The applicant is requested to clarify whether the flexible volume method or subtraction method is used in performing the SSI analysis with ACS SASSI computer program and provide the technical basis and justification for the method used in the SSI analysis.