

REQUEST FOR ADDITIONAL INFORMATION 898-6275 REVISION 3

1/30/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: 19.1

QUESTIONS for PRA and Severe Accidents Branch (SPRA)

19-564

In accordance with guidance provided in SRP Section 19.1 and RG 1.206, please revise as necessary Sections 19.1.1 and 19.1.2 of the US-APWR DCD Revision 3 to address the following issues.

1. Define which PRA (i.e., design-specific PRA or plant-specific PRA) is in consideration when mentioning "PRA" in these sections. This action is needed to clearly separate the responsibility of the DC applicant, COL applicant, and COL holder on the use, update, and upgrade of the PRA. In addition, for COL holders, 10 CFR 50.71(h)(2) states that "The PRA must be upgraded every 4 years until the permanent cessation of operations under 10 CFR 52.110(a)." The term mentioned herein is "upgraded" but not "updated," which has a different meaning (see Regulatory Guide 1.200 for characteristics and attributes of an upgrade). It should also be noted that there may be situations where a PRA upgrade is needed more frequently than the four-year cycle, as for instance to support a new risk-informed application. Furthermore, no specific frequency is defined in the rule for PRA update.
2. Revise the discussions on Pages 19.1-1 and 19.1-4 to clearly state that the PRA-based SMA is being used to assess US-APWR seismic risk but not "PRA" as mentioned.
3. During the operational phase, the use of the PRA during plant operations in support of licensee programs shall be identified and described by the COL holder. Remove unsuitable information/discussion from the design control document and develop a COL action item.
4. Revise Section 19.1.2.4 to clearly describe the US-APWR design-specific PRA maintenance and upgrade program.