

**REQUEST FOR ADDITIONAL INFORMATION 309-2345 REVISION 1**

4/2/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 15.04.02 - Uncontrolled Control Rod Assembly Withdrawal at Power  
Application Section: 15.4.2

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

15.04.02-1

**Question 15.4.2-1**

Discuss in detail the radial and axial power distributions used in the analysis and verify that the power peaking factors are at the design limits for a given power level.

15.04.02-2

**Question 15.4.2-2**

Explain what is meant by a uniform radial power distribution resulting from RCCA bank withdrawal as stated in the last paragraph in Section 15.4.2.3.3. Intuitively, one would expect radial power peaking within the assemblies from which the RCCAs are being withdrawn.