

REQUEST FOR ADDITIONAL INFORMATION 900-6313 REVISION 3

2/6/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 15.03.03-15.03.04 - Reactor Coolant Pump Rotor Seizure and Reactor Coolant Pump
Shaft Break
Application Section: 15.3.3

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

15.03.03-15.03.04-4

The following items relate to the DNB failure evaluation from DCD Section 15.3.3,
Reactor Coolant Pump Rotor Seizure:

- a) In order to demonstrate that the SRP acceptance criteria regarding inlet flow distribution is met, describe how the local flow conditions input to VIPRE-01M account for both 3 pump operation and the resulting asymmetrical inlet flow distribution.
- b) In order to find that the analysis used an approved mathematical model with suitably conservative parameters, describe how the hot channel factor census curve was generated for this event.