REQUEST FOR ADDITIONAL INFORMATION 915-6344 REVISION 0

3/29/2012

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.02.01 - Station Service Water System
Application Section: 9.2.1

QUESTIONS for Balance of Plant and Technical Specifications Branch (BPTS)

09.02.01-60

New RAI 9.2.1 to support open item in SER 9.2.1.
Related to COL Item 9.2(7), Comanche Peak, the COL applicant indicated in a January, 23, 2012, call with the NRC that ESWS safety-related to nonsafety-related boundary valve, AOV-577 (shown on Figure 9.2.1-1, Sheet 1) has four different power supplies. The following should be addressed by the DCD applicant.

1. The four different power supplies are not specifically described in the DCD, including Tier 1. The COL applicant stated that this item should be resolved in the DCD and not under COL Item 9.2(7).
2. AOV-577 logic states that this valve closes on ESWS pump stop. AOV 577 logic to close should be clarified and the DCD Failure Modes and Affects Analysis (FMEA) revised, DCD Table 9.2.1-2.
3. DCD FMEA should evaluate boundary valve AOV 577 not going full open. The DCD applicant should determine if there a safety feature for this valve to remain open. For example, if the valve fails closed during power operations, the UHS basin chemistry may not be able to be maintained.
4. DCD FMEA should evaluate VLV-544A/B/C/D (blowdown bypass) being open with single failure of AOV 577 not fully closing (which might occur if there were a bent valve stem).
5. Not all boundary valves are listed in the DCD FMEA when compared to the Comanche Peak COL FMEA.