REQUEST FOR ADDITIONAL INFORMATION 618-4829 REVISION 2

8/13/2010

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.05.08 - Emergency Diesel Engine Combustion Air Intake and Exhaust System
Application Section: 9.5.8

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

09.05.08-27

In response to RAI No. 557-4415, Question No. 09.05.08-26, the applicant stated that the emergency power supply gas turbine generator combustion air intake filter would be added back to the scope of this system. The NRC staff accepts this change, however, additional design information is needed in the DCD to address the NUREG-0800, Section 9.5.8, acceptance criteria for this system. Specifically, the design description should state how the air filters are designed to minimize the potential for clogging due to dust storms, rain, ice, or snow during system operation. While the applicant (and the proposed DCD revision) states that a differential pressure alarm is provided for the intake filters, what provisions are included to ensure continued operation and performance of the emergency power supply in the event that a high differential pressure occurs during a loss of offsite power? The response should address the protection from atmospheric conditions that could adversely impact the performance of multiple GTGs concurrently.

Reference: MHI's Response to US-APWR DCD RAI No. 557-4415; MHI Ref: UAP-HF-10170; dated June 14, 2010; ML101680362.