

**REQUEST FOR ADDITIONAL INFORMATION NO. 139-1533 REVISION 1**

1/9/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 09.05.02 - Communications Systems

Application Section: 9.5.2

QUESTIONS for Instrumentation, Controls and Electrical Engineering 1 (AP1000/EPR Projects) (ICE1)

09.05.02-6

US-APWR Design Certification Final Safety Analysis Report Sections 9.5.2 and 13.6 neither reference nor discuss 10 CFR 73.45(e)(2)(iii). Only COL Item, COL 9.5(7), mentions this requirement. Is the intent to address the communication subsystems in this COL item? Also, identify how this requirement is to be referenced in Section 9.5.2.

09.05.02-7

Do the respiratory protective devices to be used with the communication equipment comply with NUREG-0654/FEMA-REP-1, Rev. 1, Section II.E.7? If not, what guidance is followed?

09.05.02-8

US-APWR Design Certification Final Safety Analysis Report Section 9.5.2.4 states that "The analysis, design, fabrication, erection, inspection, testing and verification of the plant communication systems is performed in accordance with the codes and standards specified in Subsection 9.5.10." Subsection 9.5.10 is a list of references with many of the references not cited in the text. For example, 10CFR Part 50, is referenced but is the intent to meet the requirements of 10 CFR 50.55a? Also, this section lists IE Bulletin 80-15 as a reference but it is unclear if this Bulletin is complied with and to what extent. The DCD should address the references in Subsection 9.5.10 for guidance or compliance within the text.

09.05.02-9

Passive and active repeaters are distributed throughout the plant to ensure complete coverage anywhere in the facility. In accordance with Regulatory Guide 1.189, the repeaters should be protected from exposure to fire damage. Address the protection of repeaters from fire damage and the compliance with Regulatory Guide 1.189 overall.

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09.05.02-10

US-APWR Design Certification Final Safety Analysis Report Section 9.5.2, Communication Systems, 2nd paragraph states, "These items include the communications aspects of the licensee's security and detection systems, the emergency response center (10 CFR 50.34(f)(2) and 10 CFR 50.47(a)(8))...." Confirm that the reference to 10 CFR 50.47(a)(8) should be to 10 CFR 50.47(b)(8).