

REQUEST FOR ADDITIONAL INFORMATION NO. 169-1740 REVISION 1

2/3/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 12.02 - Radiation Sources
Application Section: 12.02 - Radiation Sources

QUESTIONS for Health Physics Branch (CHPB)

12.02-15

10 CFR 20.1301 "Dose limits for individual members of the public" requires compliance with the provisions of 40 CFR 190 shall comply with those standards. NUREG-0800 Chapter 11.4 "Solid Waste Management System", notes that 10 CFR 20.1301(e) requires that facilities licensed by the U.S. Nuclear Regulatory Commission comply with the provisions of 40 CFR Part 190. The EPA annual dose limits are 25 mrem to the whole body from all sources on the site, which may have either single or multiple units. This requires the consideration of all potential sources of external radiation and radioactivity, including liquid and gaseous effluents and external radiation exposures from buildings, storage tanks and radioactive waste storage areas.

Question 1:

The APWR DCD Section 12.2.1.1.10 "Miscellaneous Sources" states: If it becomes necessary to temporarily store radioactive wastes/materials outside the plant structures, radiation protection measures are to be taken by the radiation protection staff to ensure compliance with 10 CFR 20 and to be consistent with the recommendations of RG 8.8. The SWMS facilities process and store dry active waste. The DCD notes that if it becomes necessary to install additional radwaste facilities for dry active waste, these facilities are to be provided by the COL Applicant and that radiation shielding is to be provided such that the dose rates comply with the requirements of 10 CFR 20. Section 12 of the DCD is silent with respect to the requirements of 40 CFR 190.

In accordance with 10 CFR 20.1301 and 40 CFR 190, please provide information that demonstrates that the requirements of 40 CFR 190 are to be met for storage of radioactive material outside the plant structures.