

REQUEST FOR ADDITIONAL INFORMATION 739-5552 REVISION 3

4/25/2011

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants
Application Section: Tier 1, 2.14

QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)

14.02-124

On page 2.14-1 of the Design Control Document (DCD), Revision 3, MHI removed the term "*and design criteria*" from the startup testing purpose description. Appendix A, "General Design Criteria for Nuclear Power Plants," to 10 CFR Part 50 states in part that the principal design criteria establishes the necessary design, fabrication, construction, testing, and performance requirements [emphasis added] for structures, systems, and components (SSCs) important to safety and all SSCs are required to be tested to ensure they will perform properly. Therefore, startup testing as well as preoperational testing is performed to demonstrate that the design criteria are met. Furthermore, Criterion XI, "Test Control," of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50 requires that a test program be established to assure that testing required to demonstrate that SSCs will perform satisfactorily in service is identified and performed, which incorporate the requirements and acceptance limits contained in applicable design documents [emphasis added]." Accordingly, the NRC staff requests that MHI reinstate the term "*and design criteria*" in the startup testing purpose description.