August 24, 2010

APPLICANT: MITSUBISHI HEAVY INDUSTRIES, LTD.

APPLICATION: UNITED STATES - ADVANCED PRESSURIZED REACTOR DESIGN CERTIFICATION REVIEW

SUBJECT: SUMMARY OF MARCH 18, 2010, PUBLIC MEETING WITH MITSUBISHI HEAVY INDUSTRIES LTD. TO DISCUSS QUALITY ASSURANCE ISSUES, HARDWARE LIFECYCLE, AND RECURRING HARDWARE DEDICATION IN THE SAFETY SYSTEMS DIGITAL PLATFORM - MITSUBISHI ELECTRIC TOTAL ADVANCED CONTROLLER TOPICAL REPORT

On March 18, 2010, a public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and Mitsubishi Heavy Industries, Ltd. (MHI), Mitsubishi Nuclear Energy Systems (MNES), Mitsubishi Electric Power Products, Inc. (MEPPI) and Mitsubishi Electric Corporation (MELCO) representatives. This summary includes the discussion on Hardware Lifecycle, Recurring Hardware Dedication within the Mitsubishi Electric Total Advanced Controller (MELTAC) topical report and quality assurance (QA) issues. A list of meeting attendees is provided as Enclosure 1. Meeting presentation slides are available in the Agencywide Documents Access and Management System (ADAMS) under accession number ML100830744, as Enclosure 2.

MHI began by presenting an outline of a typical digital platform commercial grade dedication (CGD) process. The process included a description of how the CGD recurs for design changes and for production units. MHI then explained that there are two different types of CGD conducted for MELTAC. First, the MELTAC Reevaluation Program (MRP) is non-recurring to establish the quality of the base-line design (equivalent to Appendix B). The second is a piece part CGD and is recurring to ensure on-going quality control. MHI stated that both types of CGD are conducted under MELCO's 10 CFR 50 Appendix B Quality Assurance Program (QAP)

MHI described the MELTAC MRP Project Plan including the technical characteristics, design process quality, and how the plan was conducted. The technical characteristics are defined in the MELTAC topical report. MHI also described the assessment of the technical characteristics and design process quality. MHI described the personnel that conducted the MRP project plan and stated that the December 2009, audit concluded that MELCO now has an Appendix B QAP for design related activities. The MRP report will be submitted to the U.S. Nuclear Regulatory Commission (NRC) NRC in June 2010.

For the MELTAC CGD process, MHI stated that MELCO delivers many "off-the-shelf" items including fully assembled and tested systems and spare parts at the replaceable module level. These commercial parts are dedicated in accordance with Electric Power Research Institute (EPRI) NP-5652 "Guideline for the Utilization of Commercial Grade Items in Nuclear Safety Related Applications" and EPRI TR-102260 "Supplemental Guidance for the Application of

EPRI Report NP-5652 on the Utilization of Commercial Grade Items." MHI stated that most commercial parts are accepted using Option D, meaning that parts are assembled and tested as a unit under MELCO's 10 CFR 50 Appendix B program.

MHI also stated that where critical characteristics cannot be confirmed by unit testing, piece parts are accepted using Option C. This is accomplished by qualifying the subsupplier under MELCO's 10 CFR 50 Appendix B program, utilizing source verification, or performing tests and inspections upon receipt.

CONCLUDING REMARKS

The NRC staff thanked MHI for their presentation and indicated that any additional information would be requested through the Request for Additional Information process. Once the NRC staff has had sufficient time to review the submitted documents, they would propose a clarification conference call to quickly address any issues. The NRC staff also stated that they would talk with the Office of General Counsel to obtain clarification on the docketing of documents that are subject to revision.

Please direct any inquiries to me at (301) 415-6988, or via e-mail at Michael.Magee@nrc.gov.

Sincerely,

/RA/

Michael S. Magee, Project Manager
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Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-021

Enclosures:
1. List of Attendees
2. MELTAC Commercial Grade Dedication (ML100830744)

cc w/encls: See next page

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