

May 20, 2010

HSI STYLE GUIDE AUDIT PLAN

May 26, 2010

US-APWR DESIGN CERTIFICATION Mitsubishi Heavy Industries, Ltd. Docket No. 52-021 TAC No.: RN4003

Location: Mitsubishi Nuclear Energy Systems, Inc.
1001 19th Street North
7th Floor
Arlington, VA 22209

Purpose:

The purpose is to review the Mitsubishi Heavy Industries, Ltd. (MHI) Human System Interfaces (HSI) Style Guide and verify compliance with NUREG-0711 guidance and consistency with NUREG-0700.

Background:

The NRC staff asked the question: (18.0-88 ML100960248) "MUAP-07007 part 4 describes many design characteristics for the Human system Interfaces. The staff finds the design principles to be consistent with NUREG-0700. To supplement this perspective, the staff would like to review the MHI document(s) that contain the design-specific HFE design guidance. This would be the document(s) that address the guidance in NUREG-0711 section 8.4.5, "HSI Detailed Design and Integration." The staff would like to verify the design guidance contained in MHI document(s) has been consistently applied. Please make the document(s) described above available to facilitate the staff's review of part 4 of MUAP-07007."

Regulatory Audit Bases:

NUREG-0711 Section 8.4.5, "HSI Detailed Design and Integration", contains guidance for the applicant to develop design-specific HFE design guidance. The staff will verify that the design guidance contained in NUREG-0711 has been implemented.

Regulatory Audit Scope:

The scope will include the review of the HSI style guide(s) to verify regulatory guidance contained in the NUREG-0711 document has been consistently applied and to verify that the design certification related documentation effectively implements the MHI style guide(s) direction. This review is required to complete the Safety Evaluation Report for the HSI System Design and Human Factors Engineering Process Topical Report.

Information and Other Material Necessary for the Regulatory Audit:

None

Audit Team:

- William Ward, NRC, Project Manager for US-APWR DC
- Paul Pieringer, NRC, Lead Technical Reviewer on HSI and HFE for US-APWR DC.

No quality assurance (DCIP) support is required for this audit. Any materials deemed to be suitable for submittal or citation will be identified for future quality assurance program audit activities.

Logistics:

The audit will be conducted at the location identified above. The audit is scheduled on May 26, 2010. The audit is scheduled to begin at 9:00 a.m. Participating individuals will meet at the audit location. The audit team members will conduct an exit briefing with MHI at the end of the review.

Special Requests:

Appropriate handling and protection of Safeguards Information shall be acknowledged and implemented throughout the audit.

Deliverables:

An audit report will be generated after completion of the audit. The audit outcome will be used to identify information not currently addressed on the docket and for the submittal of additional information and resolution of open items for making safety findings and regulatory decisions. The audit will assist NRC staff in the completion of the above mentioned safety evaluation report.

References:

- NUREG-0711
- NUREG-0700

Docket No. 52-021

cc: See next page

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References:

- NUREG-0711
- NUREG-0700

Docket No. 52-021

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