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GE Hitachi Nuclear Energy

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MFN 08-734

Docket No. 52-010

September 30, 2008

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001

HITACHI

Subject: Response to Portion of NRC Request for Additional Information Letter No. 228 - Related to ESBWR Design Certification Application - Design of Structures, Components, Equipment, and Systems - RAI Number 3.11-36

The purpose of this letter is to submit the GE Hitachi Nuclear Energy (GEH) response to a portion of the U.S. Nuclear Regulatory Commission Request for Additional Information (RAI) sent by NRC Letter 228 (Reference 1). The GEH response to RAI Number 3.11-36 is addressed in Enclosure 1.

If you have any questions about the information provided here, please contact me.

Sincerely,

inhand E. Kingston

Richard E. Kingston Vice President, ESBWR Licensing



Reference:

1. MFN 08-623, Letter from the U.S. Nuclear Regulatory Commission to Robert E. Brown, Request for Additional Information Letter No. 228, Related To ESBWR Design Certification Application, dated August 6, 2008

Enclosure:

- Response to Portion of NRC Request for Additional Information Letter No. 228, Related to ESBWR Design Certification Application – Design of Structures, Components, Equipment, and Systems - RAI Number 3.11-36
- cc: AE Cubbage RE Brown DH Hinds eDRF

USNRC (with enclosure) GEH/Wilmington (with enclosure) GEH/Wilmington (with enclosure) 0000-0089-8063 Enclosure 1

MFN 08-734

Response to Portion of NRC Request for

Additional Information Letter No. 228

Related to ESBWR Design Certification Application

Design of Structures, Components, Equipment, and Systems

RAI Number 3.11-36

NRC RAI 3.11-36

NRC Summary:

Provide the clarifications between computer-based system and computer-based equipment.

NRC Full Text:

Modify the document to state "computer-based I&C equipment" instead of "computer-based I&C systems."

GEH Response

Regulatory Guide 1.209 "Guidelines for Environmental Qualification of Safety-Related Computer Based Instrumentation and Control Systems in Nuclear Power Plants," states: "The guidance described in IEEE Std. 323-2003 (Ref. 7) is appropriate for satisfying the environmental qualification of safety-related computer-based I&C systems for service in mild environments at nuclear power plants." DCD Tier 2, Subsection 3.11.4.3 Computer-based Instrumentation and Control Systems states: "EQ safety-related computer-based I&C systems comply with RG 1.209."

Therefore, to be in conformance with Regulatory Guide 1.209 the term "computer-based I&C systems" is used.

DCD Impact

No DCD changes will be made in response to this RAI.