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Subject: **Response to Portion of NRC Request for Additional Information Letter No. 263 Related to ESBWR Design Certification Application RAI Number 14.3-439**

The purpose of this letter is to submit the GE Hitachi Nuclear Energy (GEH) Response to the U.S. Nuclear Regulatory Commission (NRC) Request for Additional Information (RAI) sent by NRC letter 263 dated November 6, 2008 (Reference 1).

Enclosure 1 contains the GEH response to RAI Number 14.3-439.

If you have any questions or require additional information, please contact me.

Sincerely,

Richard E. Kingston

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Vice President, ESBWR Licensing

References:

1. MFN 08-899, Letter from U.S. Nuclear Regulatory Commission to Mr. Robert E. Brown, GEH, *Request For Additional Information Letter No. 263 Related to ESBWR Design Certification Application*, dated November 6, 2008.

Enclosure:

1. Response to Portion of NRC Request for Additional Information Letter No. 263 Related to ESBWR Design Certification Application DCD Tier 1 RAI Number 14.3-439.

cc:	AE Cubbage	USNRC (with enclosure)
	RE Brown	GEH/Wilmington (with enclosure)
	DH Hinds	GEH/Wilmington (with enclosure)
	eDRFs	0000-0095-5917 (RAI 14.3-439)

Enclosure 1

MFN 09-025

Response to Portion of NRC Request for Additional Information Letter No. 263 Related to ESBWR Design Certification Application

DCD Tier 1

RAI Number 14.3-439

NRC RAI 14.3-439

Question Summary:

Clarify the ITAAC for IEEE Std 603, Criterion 5.10 and clarify whether it is DAC.

Full Text:

The acceptance criteria for DCD Tier 1, Table 2.2.15-2, Design Commitment 9 for IEEE Std 603, Criterion 5.10 require clarification. DCD Tier 2, Section 7.1.6.6.1.11, Repair (IEEE std. 603, Section 5.10), specifies that Q-DCIS provide periodic self-diagnostic functions to locate failure to the component level. As currently written, it states that systems design specifications have safety functions, not the safety systems themselves. Clarify the acceptance criteria for IEEE Std 603, Criterion 5.10.

In addition, the acceptance criteria as written are intended to confirm the design, not the as-installed equipment. This is consistent with IEEE Std 603, Criterion 5.10, which is written as design criteria. However, the acceptance criteria are not labeled design acceptance criteria (DAC). Clarify whether DCD Tier 1, Table 2.2.15-2, Design Commitment 9 should be labeled (DAC).

GEH Response

Concur. Table 2.2.15-2, Design Commitment 9, will be renumbered to Design Commitment 13 (as a result of the response to RAI 14.3-265 S01) and will be revised in response to this RAI to clarify that the acceptance criterion is to provide periodic self-diagnostic functions that locate failure to the component level. The ITAAC has been split into two parts to clearly identify the DAC part: Part a is DAC and labeled {{Design Acceptance Criteria}} and Part b is the confirmatory as-built test part and is unlabeled by convention.

DCD Impact

DCD Tier 1, Table 2.2.15-2, will be revised as part of RAI 14.3-265 S01. The table 2.2.15-2 markups will be included in the RAI response to RAI 14.3-265 S01 (MFN 09-089).

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