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MFN 08-151
Supplement 2

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

Subject: **Response to Portion of NRC Request for Additional
Information Letter No. 160 Related to ESBWR Design
Certification Application – Design of Structures, Components,
Equipment, and Systems - RAI Number 3.11-21 S01**

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 Email from Amy Cubbage on March 7, 2008 (Reference 1). The GEH response to RAI Number 3.11-21 S01 is addressed in Enclosure 1.

The GEH response to RAI 3.11-21 was submitted via Reference 3 in partial response to NRC Letter 124 (Reference 2).

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

Sincerely,

James C. Kinsey
Vice President, ESBWR Licensing

References:

1. E-Mail from Amy Cubbage dated March 7, 2008
2. MFN 08-029, Letter from U.S. Nuclear Regulatory Commission to Robert E. Brown, Senior Vice President, Regulatory Affairs GE-Hitachi, *Request For Additional Information Letter No. 124 Related To ESBWR Design Certification Application*, January 14, 2008
3. MFN 08-151, *Response to Portion of NRC Request for Additional Information Letter No. 124 Related to ESBWR Design Certification Application – Environmental Qualification of Mechanical and Electrical Equipment – RAI Numbers 3.11-15, 3.11-16, 3.11-17, 3.11-21 and 3.11-22*, dated February 22, 2008

Enclosure:

1. Response to Portion of NRC Request for Additional Information Letter No. 160 Related to ESBWR Design Certification Application - Design of Structures, Components, Equipment, and Systems - RAI Number 3.11-21 S01

cc:	AE Cubbage	USNRC (with enclosure)
	RE Brown	GEH/Wilmington (with enclosure)
	DH Hinds	GEH/Wilmington (with enclosure)
	GB Stramback	GEH/San Jose (with enclosure)
	eDRF	0000-0080-6444, Revision 3

Enclosure 1

MFN 08-151

Supplement 2

Response to Portion of NRC Request for

Additional Information

Related to ESBWR Design Certification Application

Design of Structures, Components, Equipment, and Systems

RAI Number 3.11-21 S01

For historical purposes, the original text of RAI 3.11-21 and the GE response is included. This response does not include any attachments or DCD mark-ups.

NRC RAI 3.11-21

NRC Summary:

Modify Section 3.11 (first paragraph) to include safety-related digital instrumentation and control components

NRC Full Text:

In RAI response 3.11-8, GEH stated that safety-related digital instrumentation and control components are included in the scope of EQ. Section 3.11 (first paragraph) should be modified to include safety-related digital instrumentation and control components.

GEH Response

The first paragraph of DCD Tier 2, Revision 4, Section 3.11 will be revised to specifically include safety related digital instrumentation and control components.

DCD Impact

DCD Tier 2, Revision 4, Section 3.11 will be revised in Revision 5 as noted in the attached markup.

NRC RAI 3.11-21 S01

NRC Summary:

Include digital and non-digital instrumentation and control in Section 3.11 or provide justification for not including them.

NRC Full Text:

In response to RAI 3.11-21 dated February 22, 2008, GEH stated that the first paragraph in Section 3.11 will be revised in Revision 5 to state "EQ is based on limiting design conditions for electrical equipment (including digital instrumentation and control components) and safety-related mechanical equipment." The staff does not understand why instrumentation (non-digital) is deleted from Section 3.11. Include both type of instrumentation and control in Section 3.11 or provide justification for not including them.

GEH Response

The first two paragraphs of DCD Tier 2, Section 3.11 will be revised in Revision 5 to specifically include safety-related digital and non-digital instrumentation and control components.

DCD Impact

DCD Tier 2, Section 3.11 will be revised as noted in the markup for GEH response to RAI 14.3-206, contained in MFN 08-086, Supplement 42, dated May 2, 2008.