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Supplement 10

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

Subject: **Response to Portion of NRC RAI Letter No. 166 Related to ESBWR Design Certification Application - DCD Tier 2 Section 3.9 – Mechanical Systems and Components; RAI Number 3.9-77, Supplement 2**

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 dated March 28, 2008 (Reference 1). Previous NRC requests and GEH responses were transmitted via references 2 through 4. RAI Number 3.9-77 Supplement 2 is addressed in Enclosure 1.

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 08-316 Letter from U.S. Nuclear Regulatory Commission to Robert E. Brown, GEH, *Request For Additional Information Letter No. 166 Related to ESBWR Design Certification Application*, dated March 28, 2008

2. MFN 06-464, Supplement 7, Letter from James C. Kinsey to U.S. Nuclear Regulatory Commission, *Response to Portion of NRC Request for Additional Information Letter Number 67 Related to E5BWR Design Certification Application -Dynamic Testing and Analysis of Systems, Components, and Equipment -RAI Numbers 3.9-49 S01, 3.9-53,S01, 3.9-59 S01, 3.9-72 S01, 3.9-73 S01 3.9-76 S01, 3.9-77 S01, 3.9-78, 3.9-79 S01 and 3.9-96 S01, and -Reactor Pressure Vessel Internals -RAI Numbers 3.9-132 S01 and 3.9-147 S01*, dated February 4, 2008

3. MFN 07-207, Letter from James C. Kinsey to U.S. Nuclear Regulatory Commission, *Response to Portion of NRC Request for Additional Information Letter No. 67 Related to ESBWR Design Certification Application - Top Guide Assembly - RAI Number 3.9-77,* dated April 11, 2007

4. MFN 06-378, Letter from U.S. Nuclear Regulatory Commission to Mr. David H. Hinds, Manager, ESBWR, General Electric Company, *Request For Additional Information Letter No. 67 Related To ESBWR Design Certification Application*, dated October 10,2006.

Enclosure:

1. Response to Portion of NRC RAI Letter No. 166 Related to ESBWR Design Certification Application - DCD Tier 2 Section 3.9 – Mechanical Systems and Components; RAI Number 3.9-77 S02

cc:	AE Cubbage	USNRC (with enclosures)
	RE Brown	GEH/Wilmington (with enclosures)
	DH Hinds	GEH/Wilmington (with enclosures)
	eDRF	0000-0094-6099 (RAI 3.9-77 S02)