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MFN 06-257, Supplement 1

Docket No. 52-010

November 9, 2007

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

Subject: **Response to Portion of NRC Request for Additional Information Letter No. 40 Related to ESBWR Design Certification Application, RAI Number 19.2-18 S01**

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 July 5, 2006 (Reference 1). The GEH response to RAI Number 19.2-18 is in Enclosure 1.

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

Sincerely,

Kathy Sedney for

James C. Kinsey
Vice President, ESBWR Licensing

D068

NRO

Reference:

1. MFN 06-222, Letter from U.S. Nuclear Regulatory Commission to David H. Hinds, *Request for Additional Information Letter No. 40 Related to ESBWR Design Certification Application*, July 5, 2006.

Enclosure:

1. Response to Portion of NRC Request for Additional Information Letter No. 40 Related to ESBWR Design Certification Application Probabilistic Risk Assessment RAI Number 19.2-18 S01

cc:	AE Cubbage	USNRC (with enclosure)	
	GB Stramback	GEH/San Jose (with enclosure)	
	RE Brown	GEH/Wilmington (with enclosure)	
	eDRFSection	0000-0076-5633	NRC RAI 19.2-18 S01

Enclosure 1
MFN 06-257, Supplement 1

Response to Portion of NRC Request for
Additional Information Letter No. 40
Related to ESBWR Design Certification Application
Probabilistic Risk Assessment
RAI Number 19.2-18 S01

NRC RAI 19.2-18 S01

Received by e-mail from T. Kevern.

Based on the response to RAIs 19.2-17 and -18, the design of the containment vent system has not been completed and is considered beyond the scope of the DCD. Given that containment venting is credited in the Level 2 analysis, sufficient information regarding the vent system should be provided to establish that the credit taken in the PRA is appropriate, e.g., pressure and flow capacity, containment vent valve design features and dependencies. Provide additional information regarding the vent system. In the absence of this information, this system should be removed from the design certification, and assessed for each plant-specific COL submittal.

GEH Response

Refer to the response to RAI 19.2-17 Supplement 1 attached MFN 06-441, Supplement 1 dated November 7, 2007.

DCD/NEDO-33201 Impact

No changes will be made to the DCD or NEDO-33201 in response to this RAI.