December 18, 2008

Mr. Robert E. Brown
Senior Vice President, Regulatory Affairs
GE Hitachi Nuclear Energy
3901 Castle Hayne Road MC A-50
Wilmington, NC 28401

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 288 RELATED TO ESBWR DESIGN CERTIFICATION APPLICATION

Dear Mr. Brown:

By letter dated August 24, 2005, GE Hitachi Nuclear Energy submitted an application for final design approval and standard design certification of the economic simplified boiling water reactor (ESBWR) standard plant design pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed design.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

If you have any questions or comments concerning this matter, you may contact me at 301-415-2375 or leslie.perkins@nrc.gov, or you may contact Amy Cubbage at 301-415-2875 or amy.cubbage@nrc.gov.

Sincerely,

/RA/

Leslie Perkins, Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-010

Enclosure:
Request for Additional Information

cc: See next page

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/RA/

Leslie Perkins, Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-010

Enclosure:
Request for Additional Information
cc: See next page
Distribution: See next page

ADAMS ACCESSION NO. ML083520411 NRO-002

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NAME	LPerkins	ACubbage
DATE	12/18/08	12/18/08

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO.288 RELATED TO ESBWR DESIGN CERTIFICATION APPLICATION DATED DECEMBER 18, 2008

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Requests for Additional Information (RAIs)
ESBWR Design Control Document (DCD), Revision 5

RAI Number	Reviewer	Question Summary	Full Text
14.3-395 S01	Vettori R	RAI response does not address failure of the standpipe booster pump.	In consideration of the response to RAI 14.3-395 staff requests that GE address the impact of a non-seismic booster pump failure in a safe shutdown earthquake (SSE) on the ability to ensure adequate water flow and pressure reaching areas containing equipment required for safe plant shutdown in the event of a safe-shutdown earthquake. GEH has not identified the location of the booster pump in the FPS piping. If the pump is in the flow path that feeds the hose stations that must remain operable following an SSE, failure of the pump may restrict or block flow to these hose stations. Confirm that the pump will not be installed in this flow path or that provisions will be made to bypass a failed pump. Revise the DCD to either show the location of the pump and any bypass provisions or to include a design requirement that the failure of the pump due to an SSE will not impact the ability to provide the required flow to the hose stations serving areas containing equipment required for safe shutdown.

cc:

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