June 9, 2009

Mr. Jerald G. Head
Senior Vice President, Regulatory Affairs
GE Hitachi Nuclear Energy
3901 Castle Hayne Road MC A-18
Wilmington, NC 28401

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 351 RELATED TO ESBWR DESIGN CERTIFICATION APPLICATION

Dear Mr. Head:

By letter dated August 24, 2005, GE Hitachi Nuclear Energy (GEH) 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 301-415-3179 or Ilka.Berrios@nrc.gov or you may contact Amy Cubbage at 301-415-2875 or Amy.Cubbage@nrc.gov.

Sincerely,

/RA/

Ilka Berrios, 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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Enclosure:
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cc: See next page

Distribution: See next page

ADAMS ACCESSION NO. ML091590352

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DATE	06/09/09	06/09/09

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 351 RELATED TO ESBWR DESIGN CERTIFICATION APPLICATION DATED JUNE 9, 2009

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

RAI Number	Reviewer	Question Summary	Full Text
RAI 6.2-196 SO1	Thomas G	Provide the analysis to demonstrate adequate core cooling during post LOCA.	GEH response to RAI 6.2-196 (MFN 08-930 dated December 1, 2008) referred to RAI 6.1-173S01 response, which was not acceptable. Since GEH took the position that RG 1.82, Rev.3 is “not applicable” to ESBWR, there is no assurance that downstream effects are sufficiently addressed in the ESBWR design. During the initial phase of the LOCA, there is potential actuation of the LPCI mode of the FAPCS due to systems interaction. Provide the analysis to demonstrate adequate core cooling during post LOCA.

cc:

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