October 8, 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. 379 RELATED TO ESBWR DESIGN CERTIFICATION APPLICATION

Dear Mr. Head:

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 301-415-6715 or Bruce.Bavol@nrc.gov or you may contact Amy Cubbage at 301-415-2875 or Amy.Cubbage@nrc.gov.

Sincerely,

/RA/

Bruce M. Bavol, 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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Request for Additional Information

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Distribution: See next page
ADAMS ACCESSION NO. ML092810185 NRO-002

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DATE	10/08/2009	10/08/2009

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 379 RELATED TO ESBWR DESIGN CERTIFICATION APPLICATION DATED OCTOBER 8, 2009

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Requests for Additional Information (RAIs)
ESBWR Design Control Document (DCD), Revision 6

RAI Number	Reviewer	RAI Summary	RAI Text
21.6-103 S01 (MFN 09-224 S01; June 16, 2009)	Wagage H, Thomas G	Decay heat versus radiation heating generated in the core	In response to RAI 21.6-103, MFN 09-224, Supplement 1, dated June 16, 2009 GEH proposes to change ESBWR DCD Appendix 6E. The proposed text states, "Then after the non-condensable gases are purged from the GDCS and DW gas spaces, the PCCS heat removal capacity matches the decay heat. However, it still cannot remove radiation heating generated in the core." Since both the "decay heat" and "radiation heating generated in the core" refer to the same, the above sentences appear to contradict each other. Staff requests GEH to correct the proposed text.

Enclosure

cc:

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