

February 8, 2008

Mr. Robert E. Brown
Senior Vice President, Regulatory Affairs
GE-Hitachi Nuclear Energy Americas, LLC
3901 Castle Hayne Road MC A-45
Wilmington, NC 28401

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 149 RELATED TO
ESBWR DESIGN CERTIFICATION APPLICATION

Dear Mr. Brown:

By letter dated August 24, 2005, GE-Hitachi Nuclear Energy Americas, LLC (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 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 301-415-6256 or djq3@nrc.gov or you may contact Amy Cubbage at 301-415-2875 or aec@nrc.gov.

Sincerely,

/RA/

Dennis Galvin, 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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Distribution: See next page

ACCESSION NO.: ML080320268

NRO-002

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ESBWR DESIGN CERTIFICATION APPLICATION

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**Requests for Additional Information (RAIs):
ESBWR Design Control Document (DCD) Revision 4**

RAI Number	Reviewer	Question Summary	Full Text
7.2-36, Supplement No. 2 (MFN 07-015 Supplement No. 1, May 15, 2007; MFN 07-015 Supplement No. 2, January 16, 2008; MFN 07-535, October 23, 2007)	Rhow S Harbuck C	Include the nominal trip setpoint final (NTSP _F) in ESBWR instrumentation generic technical specifications as the limiting safety system setting for each instrumentation function.	The ESBWR generic technical specifications bases, Revision 4 of DCD Tier 2, Chapter 16B, state that the nominal trip setpoint (NTSP) meets the definition of a limiting safety system setting (LSSS), which 10 CFR 50.36 defines and requires to be included in technical specifications. General Electric-Hitachi's (GEH's) response to RAI 7.2-36, Supplement 1, indicates that the NTSP is the nominal trip setpoint final (NTSP_F), as defined by the setpoint methodology proposed in NEDE-33304P, October 2007. However, the ESBWR generic technical specifications, Revision 4 of DCD Tier 2, Chapter 16, do not include a NTSP_F setting for each instrumentation function, but only include an Allowable Value. Because the regulations require the LSSS to be in the technical specifications, and the NTSP_F is the LSSS for an instrumentation function channel, revise the generic technical specifications to include, in addition to the Allowable Value, the NTSP_F setting for each specified instrumentation function.

DC GE - ESBWR Mailing List

(Revised 1/3/08)

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