

August 10, 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. 365 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 301-415-6256 or Dennis.Galvin@nrc.gov or you may contact Amy Cubbage at 301-415-2875 or Amy.Cubbage@nrc.gov.

Sincerely,

/RA I. Berrios for:/

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.: NRO-002

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DATE	08/10/2009	08/10/2009

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 365 RELATED TO
ESBWR DESIGN CERTIFICATION APPLICATION DATED AUGUST 10, 2009

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**Requests for Additional Information (RAIs):
ESBWR Design Control Document (DCD) (Preliminary Revision 6)**

RAI Number	Reviewer	Question Summary	Full Text
9.1-15 Supplement 4 (MFN 9-496, July 23, 2009)	Chakrabarti S	Include the reinforcement of spent fuel pool liner in the DCD.	<p>The staff reviewed GEH response to RAI 9.1-15 S03, received via GEH letter MFN 09-496, dated July 23, 2009. The staff finds the applicant's evaluation of the spent fuel pool liner plate against accidental fuel assembly to be technically acceptable. The staff notes that the evaluation relied upon reinforcing the liner plate in the region of the leak chase channels in areas that are not covered by spent fuel racks by welding 1.34 inch (34 mm) thick cover plates. Since reinforcement of the liner plate is a special design feature relied upon for maintaining integrity of the liner, please include this design requirement in the DCD, or provide justification why a DCD revision is not considered necessary. The staff notes that any design details added to DCD Tier 2 Appendix 3G in response to this RAI should be designated Tier 2* consistent with the response to RAI 3.8-128 in MFN 09-446, dated June 30, 2009.</p> <p>In addition, clarify whether the Buffer Pool has comparable leak chase channels and the corresponding need for reinforcement of the liner plate. As applicable, please include this design requirement in the DCD, or provide justification why a DCD revision is not considered necessary.</p>

DC GE - ESBWR Mailing List

(Revised 08/06/2009)

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