

February 3, 2009

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. 305 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](mailto:leslie.perkins@nrc.gov), or you may contact Amy Cubbage at 301-415-2875 or [amy.cubbage@nrc.gov](mailto: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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Dear Mr. Brown:

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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  
Distribution: See next page

**ADAMS ACCESSION NO.** ML090330403 NRO-002

<b>OFFICE</b>	PM:NGE2:NRO	PM:NGE1:NRO
<b>NAME</b>	LPerkins	ACubbage
<b>DATE</b>	2/2/09	2/3/09

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO.305 RELATED TO  
ESBWR DESIGN CERTIFICATION APPLICATION DATED FEBRUARY 3, 2009

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

<b>RAI Number</b>	<b>Reviewer</b>	<b>Question Summary</b>	<b>Full Text</b>
14.2-100	Pal A Talbot F	Included main generator island mode operation test	<p>DCD, Tier 2, Section 8.3.1.1 states that the UATs provide normal preferred offsite power or generator island mode power to each the plant's two power generation and plant investment protection load groups.</p> <p>The DC applicant does not include the demonstration of generator island mode operation. Please include in DCD Subsection 14.2.8.2, "Initial Startup Test Description," the main generator island mode operation test or provide justification for not including this test in the startup test program.</p>
14.3-448	Pal A	Provide ITAAC associated with coordination of interrupting devices	<p>Provide an ITAAC associated with coordination of interrupting devices so that the circuit interrupter closest to the fault opens before other devices. The coordination study should include all voltage levels</p>

Enclosure

DC GE - ESBWR Mailing List

(Revised 02/02/2009)

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