

February 5, 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. 307 RELATED TO
ESBWR DESIGN CERTIFICATION APPLICATION

Dear Mr. Brown:

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 is contained in the enclosure to this letter.

If you have any questions or comments concerning this matter, you may contact me at 301-415-6590 or David.Misenhimer@nrc.gov or you may contact Amy Cubbage at (301) 415-2875 or Amy.Cubbage@nrc.gov.

Sincerely,

/RA/

David Misenhimer, 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 w/encl: See next page

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Request for Additional Information

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ADAMS ACCESSION NO.: ML090360679

NRO-002

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DATE	02/5/09		02/5/09

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 301 RELATED TO
ESBWR DESIGN CERTIFICATION APPLICATION DATED February 5, 2009

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**ELECTRICAL ENGINEERING BRANCH REVIEW OF
ESBWR DESIGN CERTIFICATION APPLICATION
DESIGN CONTROL DOCUMENT CHAPTER 22, REVISION 5
REQUESTS FOR ADDITIONAL INFORMATION**

RAI NUMBER	REVIEWER	QUESTION SUMMARY	FULL TEXT
22.5-45	Pal A	Verify surveillances for standby diesel generator	<p>The following surveillances for standby diesel generator should be added under Availability Control Surveillance requirements (ACSR):</p> <ol style="list-style-type: none"> 1) Verify that each standby diesel generator starts and operates at rated load for ≥ 24 hours. This test may utilize diesel engine pre-lube prior to starting and warm-up period prior to loading. Verify this test is done during every refueling outage. 2) Verify the fuel oil transfer system operates to [automatically] transfer fuel oil from storage tank[s] to the day tank [and engine mounted tank]. Verify this test is done every 92 days. 3) Verify that standby diesel generator starts and achieves rated speed and voltage upon receipt of an under-voltage signal and sequences its designed loads while maintaining voltage and frequency within limits. Verify this test is done during every refueling outage.
22.5-46	Pal A	Verify surveillances for ancillary diesel generator	<p>The following surveillances for ancillary diesel generator should be added under Availability Control Surveillance requirements (ACSR):</p> <ol style="list-style-type: none"> 1) Verify that each ancillary diesel generator starts and operates at rated load for ≥ 24 hours. This test may utilize diesel engine pre-lube prior to starting and warm-up period prior to loading. Verify this test is done during every refueling outage. 2) Verify the fuel oil transfer system operates to [automatically] transfer fuel oil from storage tank[s] to the day tank [and engine mounted tank]. Verify this test is done every 92 days.

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(Revised 06/10/2008)

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