

March 3, 2010

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. 410 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/

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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ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
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Docket No. 52-010

Enclosure:
Request for Additional Information

cc: See next page

Distribution: See next page

ACCESSION NO.: ML100620218

NRO-002

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|---------------|------------|------------|
| OFFICE | PM:NGE1 | PM:NGE1 |
| NAME | DGalvin | ACubbage |
| DATE | 03/03/2010 | 03/03/2010 |

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 410 RELATED TO
ESBWR DESIGN CERTIFICATION APPLICATION DATED MARCH 3, 2010

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APal NRO

**Request for Additional Information (RAI)
ESBWR Design Control Document (DCD) Revision 6**

| RAI Number | Reviewer | Question Summary | Full Text |
|------------|-------------------|------------------------------------|---|
| 8.3-68 | Martinez-Navedo T | Designate NEDE-33156P as Tier 2* . | Designate NEDE-33516P, "ESBWR Qualification Plan Requirements for a 72-Hour Duty Cycle Battery," as Tier 2*. The staff has determined that this document will be used to qualify safety-related batteries for extended duty cycles for which there is no operational experience. The results from the test will provide reasonable assurance that the equipment will perform its safety function. |

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(Revised 02/03/2010)

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