



# HITACHI

## GE Hitachi Nuclear Energy

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### Proprietary Notice

This letter forwards proprietary information in accordance with 10CFR2.390. Upon the removal of Enclosure 1, the balance of this letter may be considered non-proprietary.

MFN 14-052, Revision 1, Supplement 2

Docket number: 52-045

June 22, 2016

U.S. Nuclear Regulatory Commission  
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Subject: **NRC Request for Additional Information Letter Number 1, Related to Chapters 6, 8, and 19 for GE-Hitachi Nuclear Energy Advanced Boiling Water Reactor Design Certification Rule Renewal Application – GEH Supplemental Response #2 to RAI 06.02.01.01.C-1**

### References:

1. Letter from USNRC to Jerald G. Head, GEH, Subject: Request for Additional Information Letter No. 1, Related to Chapters 6, 8, and 19 for GE-Hitachi Nuclear Energy Advanced Boiling Water Reactor Design Certification Rule Renewal Application, April 24, 2014.
2. Letter from Jerald G. Head, GEH, to USNRC, Subject: NRC Request for Additional Information Letter Number 1, Related to Chapters 6, 8, and 19 for GE-Hitachi Nuclear Energy Advanced Boiling Water Reactor Design Certification Rule Renewal Application – GEH Response to RAI 06.02.01.01.C-1, August 27, 2014.
3. Letter from Jerald G. Head, GEH, to USNRC, Subject: NRC Request for Additional Information Letter Number 1, Related to Chapters 6, 8, and 19 for GE-Hitachi Nuclear Energy Advanced Boiling Water Reactor Design Certification Rule Renewal Application - GEH Revised Response to RAI 06.02.01.01.C-1, August 11, 2015.
4. Letter from Jerald G. Head, GEH to USNRC, Subject: NRC Request for Additional Information Letter Number 1, Related to Chapters 6, 8, and 19 for GE-Hitachi Nuclear Energy Advanced Boiling Water Reactor Design Certification Rule Renewal Application – GEH Supplemental Response to RAI 06.02.01.01.C-1, May 6, 2016

In regard to the Requests for Additional Information transmitted in your letter (Reference 1) dated April 24, 2014, Reference 3 transmitted GE Hitachi's (GEH) final response to RAI 06.02.01.01.C-1, which replaced our previous response sent in Reference 2.

In a public teleconference with the NRC Staff (Staff) on April 6, 2016, during which the Residual Heat Removal (RHR) Heat Exchanger design in our Reference 3 response was discussed, the Staff requested that GEH provide additional clarification on the RHR Heat Exchanger increased size and the associated analysis basis as described in ABWR DCD Tier 2, Section 5.4. Reference 4 provided the clarifying information.

During the same teleconference with the NRC on April 6, 2016, the staff requested additional supplemental information and clarification of Reference 3.

Enclosure 1 contains the complete supplemental response, with proprietary information identified within brackets [[ ]], and designated in red and dotted underline text, to assist in identification. The proprietary information, as identified by GE-Hitachi Nuclear Energy Americas LLC, should be protected accordingly. This proprietary information has been re-reviewed by GEH to confirm that it is indeed GEH proprietary information.

Enclosure 2 contains the response with the proprietary information redacted, and is acceptable for public release. Enclosure 3 contains the DCD markups associated with this response. Enclosure 4 provides an affidavit which sets forth the basis for requesting that Enclosure 1 be withheld from the public.

If you have any questions concerning this letter, please contact Hugh Upton at (408) 314-8499.

Sincerely,



Jerald G. Head  
Senior Vice President, Regulatory Affairs

Commitments: No additional commitments are made in this response.

Enclosures:

1. GEH Supplemental Response #2 to RAI 06.02.01.01.C-1 Proprietary Version
2. GEH Supplemental Response #2 to RAI 06.02.01.01.C-1 Public Version
3. GEH Supplemental Response #2 to RAI 06.02.01.01.C-1 ABWR DCD Revision 6 Markups
4. MFN 14-052, Revision 1, Supplement 2 Affidavit

cc: Adrian Muniz, NRC  
DBR-0001125