



# HITACHI

## GE Hitachi Nuclear Energy

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US Nuclear Regulatory Commission  
Document Control Desk  
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**Subject: GE-Hitachi Nuclear Energy Advanced Boiling Water Reactor Design Certification Rule Renewal Application – Revised Supplement to ABWR Design Certification Environmental Report**

Reference:

1. Letter from R.E. Kingston, GEH to USNRC, Subject: ABWR Standard Plant Design Certification Renewal Application Design Control Document, Revision 5, Tier 1 and Tier 2, December 7, 2010.
2. Letter from J. G. Head, GEH to USNRC, Subject: ABWR Standard Plant Design Certification Renewal Application Design Control Document, Revision 6, Tier 1 and Tier 2, February 19, 2016

In Reference 1, GE Hitachi Nuclear Energy (“GEH”) requested renewal of the ABWR standard plant design certification (10 CFR Part 52, Appendix A) and requested approval of an accompanying amendment to the ABWR Design Control Document (“DCD”) Revision 5, Tier 1 and Tier 2. GEH prepared a supplemental Environmental Report (ER), which was submitted with the ABWR design certification renewal application on December 7, 2010 (ADAMS Accession No. ML110040176; MFN 10-342, Enclosure 6). In Reference 2, GEH transmitted to the NRC ABWR DCD Revision 6, Tier 1 and Tier 2 for use in GEH’s ABWR Design Certification Renewal Application.

This revised supplemental Environmental Report (ER) is being provided to satisfy the requirements of 10 CFR 51.55(b), and evaluates the impact of the DCD design changes as part of the renewal application on the assessment of SAMDAs. This revision to the supplemental ER addresses certain changes to the ABWR Design Control Document (DCD) implemented as a result of the staff’s detailed technical review of the ABWR Standard Plant Design Certification Renewal Application.

The key finding of the revised supplemental ER is that none of the design changes included in the DCD amendments for the renewal application impact the ABWR standard design PRA and, thus, do not impact the original SAMDA analysis or the risk of the ABWR standard design. The design changes to the ABWR do not cause a previously rejected SAMDA to become cost beneficial or result in the identification of new SAMDAs that may be reasonably incorporated into the ABWR design.

Refer to Enclosure 1 for an explanation of the requirements for the revised supplemental ER, the process used to develop the revised supplemental ER, and the industry precedence used for the reports format. Enclosure 2 contains the complete revised supplement to ABWR Design Certification Environmental Report.

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

Sincerely,

A handwritten signature in black ink that reads "Jerald Head". The signature is written in a cursive, flowing style.

Jerald G. Head  
Senior Vice President, Regulatory Affairs

Commitments: No additional commitments are made in the responses.

Enclosures:

1. Introduction to Revised Supplement to ABWR Design Certification Environmental Report
2. Applicant's Supplemental Environmental Report – Amendment To Standard Design Certification (ABWR Renewal Docket 52-045)

cc: Adrian Muniz, NRC  
DBR – 0020922