



**HITACHI**

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**Security Notice**

This letter forwards Security-Related Information to be withheld in accordance with 10 CFR 2.390. Upon removal of Enclosure 2, the balance of this letter may be considered non-Security-Related.

MFN 11-136

Docket Nos. 52-001 and 52-045  
Project No. 0774

April 4, 2011

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555-0001

**Subject: ABWR Design Certification, Design Control Document – Revision 4**

GE Nuclear Energy ("GENE"), now GE Hitachi Nuclear Energy ("GEH"), is the original applicant for design certification of the Advanced Boiling Water Reactor ("ABWR"). By letter MFN 017-97, March 28, 1997 (NRC Accession Number 9705090078, now non-public), GENE submitted GE's ABWR Design Control Document ("DCD"), Revision 4, as the version to be certified by the final rule in 10 CFR Part 52, Appendix A, May 12, 1997 (62 Fed. Reg. 25800).

By letter MFN 10-342, December 7, 2010, GEH submitted an application for renewal of the ABWR design certification rule, with an accompanying amendment reflected in the ABWR DCD, Revision 5. Subsequently, the NRC requested that GEH (1) re-submit in electronic media both a public and a sensitive version of the ABWR DCD, Revision 4, and (2) explain the process used to create Revision 5 of the DCD.

**Background**

During the original design certification application review, and in 1997, GEH maintained and updated ABWR DCD word processing files that were used to create files in a "portable document format" ("pdf"). GEH then used these pdf files to create files on CD-ROM and a paper copy that were submitted to the NRC in 1997. GENE/GEH has maintained these word processing files as non-public, internal (or under contracts with non-disclosure agreements), proprietary and intellectual property of GEH, while using the pdf files for submittal to the NRC.

D050  
D106  
MRO

Subsequently, by letter MFN 07-487, September 4, 2007, GEH submitted ABWR DCD Revision 4 in electronic format. This submittal was in support of the then pending STP Units 3 and 4 Combined License Application subsequently submitted to the NRC and which references the ABWR design certification rule. The electronic files were created and verified through a page-by-page comparison of the paper copy and electronic files originally created in 1997. However, certain characters in the re-created files were later found to be incorrect. The NRC posted a public version of Revision 4 electronic files on its website. These files should be replaced with the enclosed electronic files of Revision 4, as explained below.

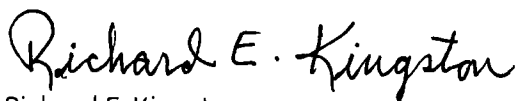
### **Current Actions**

To create Revision 5 of the DCD for the renewal application, GEH used the same word processing files that constituted the basis for the certified material, as was submitted to the NRC in 1997. The amendments shown in the ABWR design certification renewal application DCD, Revision 5, were incorporated into the word processing files. These files were then combined into distinct DCD chapter files, which were converted to the pdf files submitted with the GEH ABWR design certification renewal application.

To prepare electronic files of Revision 4 for submittal to the NRC, GEH compared DCD Revision 4 pdf files submitted in 1997, electronic files submitted in 2007, and the paper copy submitted to the NRC in 1997. GEH then resolved and verified the various discrepancies between these files as compared to the ABWR DCD Master Copy. Discrepancies were limited to administrative issues (e.g., correction of symbols) and do not constitute changes to the content of the DCD. Thus, the attached files represent the results of this comparison review and should be used as the electronic version of ABWR certified design DCD Revision 4.

Please contact Timothy Enfinger at 910-819-4881 or me if you have further questions.

Sincerely,



Richard E. Kingston  
Vice President, NPP Licensing

Commitments: None.

Enclosures:

1. CD – ABWR DCD, Revision 4, Tier 1 and Tier 2 w/o Security-Related Information (Public Version).
2. CD – ABWR DCD, Revision 4, Tier 1 and Tier 2 w/Security-Related Information (Sensitive Version), including introduction file.

cc: A. Muniz USNRC (with enclosures)  
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