



# HITACHI

## GE Hitachi Nuclear Energy

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MFN 15-063, Supplement 1

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US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

Subject: **GEH's Supplemental Response for Item # 5 - Minimize Contamination -  
of NRC Suggested U.S. Advanced Boiling Water Reactor Design Changes**

### References:

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 USNRC to Jerald G. Head, GEH, Subject: GE-Hitachi Nuclear Energy – United States Advanced Boiling-Water Reactor Design Certification Renewal Application, July 20, 2012.
3. Letter from Jerald G. Head, GEH, to USNRC, Subject: Response to NRC Letter: GE Hitachi Nuclear Energy – United States Advanced Boiling-Water Reactor Design Certification Renewal Application (July 20, 2012), September 17, 2012.
4. Letter from Jerald G. Head, GEH to USNRC, Subject: GEH Proposed Resolution of Item # 5 - Minimize Contamination - of NRC Suggested U.S. Advanced Boiling Water Reactor Design Changes July 28<sup>th</sup>, 2015.
5. Letter from Jerald 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<sup>th</sup>, 2016.

GEH submitted a Design Certification Renewal application for the U.S. Advanced Boiling Water Reactor (ABWR) in Reference 1 pursuant to the requirements of Subpart B, "Standard Design Certifications," of Title 10 of the Code of Federal Regulations (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants."

In Reference 2, the NRC suggested design changes to address issues that the agency considered to be regulatory improvements or changes that could meet the 10 CFR 52.59(b) criteria. In addition, the NRC requested that GEH implement the Fukushima Near-Term Task Force recommendations contained in SECY-12-0025, "Proposed Orders and Requests for Information in Response to Lessons Learned from Japan's March 11, 2011, Great Tohoku Earthquake and Tsunami," dated February 17, 2012. Collectively, these items are termed the "28-item backfit list".

In Reference 3, GEH responded to Reference 2 and committed to address the "28-item backfit list".

In public and private meetings the NRC held with GEH on May 7<sup>th</sup>, 2015, GEH reviewed the closure plan for the "28-item backfit list" for those items that GEH would not receive any additional Requests for Additional Information. During that meeting, Item #5 of the "28-item backfit list" was discussed and GEH's approach was found to be acceptable by the staff.

GEH responded to NRC's Item #5 of the "28-item backfit list" in Reference 4.

In Reference 5, GEH submitted the ABWR DCD, Revision 6, Tier 1 and Tier 2 to be used in the ABWR Design Certification Renewal Application.

In a public teleconference with the NRC on January 19<sup>th</sup>, 2016 the staff raised several questions concerning GEH's response to NRC's item #5 (MFN 15-063) and compliance with 10 CFR 20.1406. As a result of that teleconference the staff requested additional supplemental information which is included in Enclosure 1 and Enclosure 2 of this letter. The DCD markups in Enclosure 2 are made to ABWR DCD Revision 6.

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

I declare under penalty of perjury that the foregoing information is true and correct to the best of my knowledge, information, and belief.

Sincerely,

A handwritten signature in black ink, reading "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 this response.

Enclosures:

1. GEH's Supplemental Response to Item #5 - Minimize Contamination
2. GEH's Supplemental Response to Item #5 - Minimize Contamination - ABWR DCD Revision 6 Markups

cc: Adrian Muniz, NRC  
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