



HITACHI

GE Hitachi Nuclear Energy

Jerald G. Head
Senior Vice President, Regulatory Affairs

3901 Castle Hayne Road
PO Box 780 M/C A-18
Wilmington, NC 28402-0780
USA

T 910 819 5692
F 910 362 5692
jerald.head@ge.com

MFN 15-065

Docket number: 52-045

August 11, 2015

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

Subject: **GEH Proposed Resolution of Items # 18b, 19 and 20 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.

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 7th, 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, the following items of the “28-item backfit list” were discussed and GEH’s approach was found to be acceptable by the staff: Item #18b - Structural, dynamic and impact analysis of new and spent fuel racks, Item #19 - Thermal hydraulic analysis of the spent fuel racks and Item #20 - Criticality analyses of new and spent fuel storage racks.

Please find GEH’s proposed resolution to Items #18b, 19 and 20 of the “28-item backfit list” transmitted in Reference 2. Enclosure 1 contains the complete response, while Enclosure 2 contains the Design Control Document markups associated with this response.

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,



Jerald G. Head
Senior Vice President, Regulatory Affairs

Commitments: No additional commitments are made in this response.

Enclosures:

1. GEH Response to Items:
 - #18b - Structural, Dynamic and Impact Analysis of New and Spent Fuel Racks,
 - #19 - Thermal Hydraulic Analysis of the Spent Fuel Racks and
 - #20 - Criticality Analyses of New and Spent Fuel Storage Racks
2. GEH ABWR DCD Draft Revision 6 Markups for Items 18b, 19 and 20

cc: Adrian Muniz, NRC
David Sledzik, GEH
Peter Yandow, GEH
Patricia Campbell, GEH
Shailesh R. Sheth, GEH
Hugh A. Upton, GEH
James A. Beard, GEH
Erik Kirstein, GEH
Gerald Deaver, GEH
John Gels, GEH
DBR – 0012230