



**HITACHI**

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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 09-763

Docket No. 52-010

December 4, 2009

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

**Subject: Response to Portion of NRC Request for Additional Information Letter No. 380 Related to Design Control Document (DCD) Revision 6 – Fuel Racks - RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01**

The purpose of this letter is to submit the GE Hitachi Nuclear Energy (GEH) responses to the U.S. Nuclear Regulatory Commission (NRC) Requests for Additional Information (RAIs) 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01 sent by NRC Letter 380, Reference 1. Several of the responses commit to changes to be reflected in LTR NEDC-33374P, Revision 3, which will be transmitted under separate cover.

The response to RAI Numbers 9.1-77 S01, 9.1-78 S01, 9.1-89 S01 and 9.1-90 S01 was previously submitted to the NRC via Reference 2 in response to Reference 3. The response to RAI Number 9.1-81 S01 was previously submitted to the NRC via Reference 4 in response to Reference 3. The response to RAI Number 9.1-91 was previously submitted to the NRC via Reference 5 in response to Reference 6.

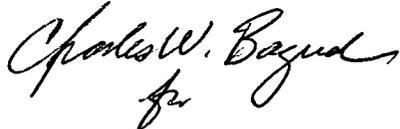
The GEH response to RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01 is addressed in Enclosure 1, which contains GEH proprietary information as defined by 10 CFR 2.390. GEH customarily maintains this information in confidence and withholds it from public disclosure. GEH has not submitted a nonproprietary version of Enclosure 1 in accordance with NRC Information Notice 2009-07, Requirements for Submittals, (2): "In instances in which a nonproprietary version would be of no value to the public because of the extent of the proprietary information, the agency does not expect a nonproprietary version to be submitted."

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NRO*

The affidavit contained in Enclosure 2 identifies that the information contained in Enclosure 1 has been handled and classified as proprietary to GEH. GEH hereby requests that the information in Enclosure 1 be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17.

If you have any questions or require additional information, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Charles W. Bayard" with a small "for" written below it.

Richard E. Kingston  
Vice President, ESBWR Licensing

References:

1. MFN 09-684, Letter from U.S. Nuclear Regulatory Commission to Jerald G. Head, *Request for Additional Information Letter No. 380 Related to Design Control Document (DCD) Revision 6*, October 28, 2009
2. MFN 09-550, Response to Portion of NRC Request for Additional Information Letter Number No. 304 Related to Design Control Document (DCD) Revision 5 – Fuel Racks – RAI Numbers 9.1-77 S01, 9.1-78 S01, 9.1-80 S01, 9.1-83 S01, 9.1-88 S01, 9.1-89 S01 and 9.1-90 S01, August 22, 2009
3. MFN 09-227, Letter from U.S. Nuclear Regulatory Commission to Jerald G. Head, *Request for Additional Information Letter No. 304 Related to Design Control Document (DCD) Revision 5*, March 31, 2009
4. MFN 09-499, Rev. 1, Revised Response to Portion of NRC Request for Additional Information Letter Number No. 304 Related to Design Control Document (DCD) Revision 5 – Spent Fuel Storage Racks – RAI Number 9.1-81 S01, July 28, 2009
5. MFN 08-912, Response to NRC Request for Additional Information Letter No. 217 Related to Licensing Topical Report NEDC-33374P, Revision 0, "Safety Analysis Report for Fuel Storage Racks Criticality Analysis for ESBWR Plants" - RAI Numbers 9.1-77 through 9.1-95, November 24, 2008
6. MFN 08-551, Letter from U.S. Nuclear Regulatory Commission to Robert E. Brown, *Request for Additional Information Letter No. 217 Related to NEDC-33374P, "Safety Analysis Report for Fuel Storage Racks Criticality Analysis for ESBWR Plants"*, June 25, 2008

Enclosures:

1. Response to Portion of NRC Request for Additional Information Letter No. 380 Related to Design Control Document (DCD) Revision 6 – Fuel Racks - RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01 – GEH Proprietary Information
2. Response to Portion of NRC Request for Additional Information Letter No. 380 Related to Design Control Document (DCD) Revision 6 – Fuel Racks - RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01 – Affidavit

cc: AE Cabbage      USNRC (with enclosures)  
JG Head            GEH/Wilmington (with enclosures)  
DH Hinds          GEH/Wilmington (with enclosures)  
TL Enfinger        GEH/Wilmington (with enclosures)  
eDRF Section      0000-0110-0507

**Enclosure 2**

**MFN 09-763**

**Response to Portion of NRC Request for  
Additional Information Letter No. 380  
Related to Design Control Document (DCD) Revision 6**

**Fuel Racks**

**RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89  
S02, 9.1-90 S02 and 9.1-91 S01**

**Affidavit**

## GE-Hitachi Nuclear Energy Americas LLC

### AFFIDAVIT

I, **Larry J. Tucker**, state as follows:

- (1) I am Manager, ESBWR Engineering, GE Hitachi Nuclear Energy ("GEH"), and have been delegated the function of reviewing the information described in paragraph (2) which is sought to be withheld, and have been authorized to apply for its withholding.
- (2) The information sought to be withheld is contained in enclosure 1 of GEH's letter, MFN 09-763, Mr. Richard E. Kingston to U.S. Nuclear Energy Commission, entitled "Response to Portion of NRC Request for Additional Information Letter No. 380 Related to Design Control Document (DCD) Revision 6 – Fuel Racks - RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01" dated December 4, 2009. The proprietary information in enclosure 1, entitled "*Response to Portion of NRC Request for Additional Information Letter No. 380 Related to Design Control Document (DCD) Revision 6 – Fuel Racks - RAI Numbers 9.1-77 S02, 9.1-78 S02, 9.1-81 S02, 9.1-89 S02, 9.1-90 S02 and 9.1-91 S01 – GEH Proprietary Information,*" is delineated by a [[dotted underline inside double square brackets<sup>(3)</sup>]]. Figures and large equation objects are identified with double square brackets before and after the object. In each case, the superscript notation <sup>(3)</sup> refers to Paragraph (3) of this affidavit, which provides the basis for the proprietary determination.
- (3) In making this application for withholding of proprietary information of which it is the owner or licensee, GEH relies upon the exemption from disclosure set forth in the Freedom of Information Act ("FOIA"), 5 USC Sec. 552(b)(4), and the Trade Secrets Act, 18 USC Sec. 1905, and NRC regulations 10 CFR 9.17(a)(4), and 2.390(a)(4) for "trade secrets" (Exemption 4). The material for which exemption from disclosure is here sought also qualify under the narrower definition of "trade secret", within the meanings assigned to those terms for purposes of FOIA Exemption 4 in, respectively, Critical Mass Energy Project v. Nuclear Regulatory Commission, 975F2d871 (DC Cir. 1992), and Public Citizen Health Research Group v. FDA, 704F2d1280 (DC Cir. 1983).
- (4) Some examples of categories of information which fit into the definition of proprietary information are:
  - a. Information that discloses a process, method, or apparatus, including supporting data and analyses, where prevention of its use by GEH's competitors without license from GEH constitutes a competitive economic advantage over other companies;

- b. Information which, if used by a competitor, would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing of a similar product;
- c. Information which reveals aspects of past, present, or future GEH customer-funded development plans and programs, resulting in potential products to GEH;
- d. Information which discloses patentable subject matter for which it may be desirable to obtain patent protection.

The information sought to be withheld is considered to be proprietary for the reasons set forth in paragraphs (4)a. and (4)b. above.

- (5) To address 10 CFR 2.390(b)(4), the information sought to be withheld is being submitted to NRC in confidence. The information is of a sort customarily held in confidence by GEH, and is in fact so held. The information sought to be withheld has, to the best of my knowledge and belief, consistently been held in confidence by GEH, no public disclosure has been made, and it is not available in public sources. All disclosures to third parties, including any required transmittals to NRC, have been made, or must be made, pursuant to regulatory provisions or proprietary agreements which provide for maintenance of the information in confidence. Its initial designation as proprietary information, and the subsequent steps taken to prevent its unauthorized disclosure, are as set forth in paragraphs (6) and (7) following.
- (6) Initial approval of proprietary treatment of a document is made by the manager of the originating component, the person most likely to be acquainted with the value and sensitivity of the information in relation to industry knowledge, or subject to the terms under which it was licensed to GEH. Access to such documents within GEH is limited on a "need to know" basis.
- (7) The procedure for approval of external release of such a document typically requires review by the staff manager, project manager, principal scientist, or other equivalent authority for technical content, competitive effect, and determination of the accuracy of the proprietary designation. Disclosures outside GEH are limited to regulatory bodies, customers, and potential customers, and their agents, suppliers, and licensees, and others with a legitimate need for the information, and then only in accordance with appropriate regulatory provisions or proprietary agreements.
- (8) The information identified in paragraph (2) is classified as proprietary because it contains details of GEH's design and licensing methodology. The development of the methods used in these analyses, along with the testing, development and approval of the supporting methodology was achieved at a significant cost to GEH.
- (9) Public disclosure of the information sought to be withheld is likely to cause substantial harm to GEH's competitive position and foreclose or reduce the availability of profit-making opportunities. The information is part of GEH's

comprehensive BWR safety and technology base, and its commercial value extends beyond the original development cost. The value of the technology base goes beyond the extensive physical database and analytical methodology and includes development of the expertise to determine and apply the appropriate evaluation process. In addition, the technology base includes the value derived from providing analyses done with NRC-approved methods.

The research, development, engineering, analytical and NRC review costs comprise a substantial investment of time and money by GEH.

The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

GEH's competitive advantage will be lost if its competitors are able to use the results of the GEH experience to normalize or verify their own process or if they are able to claim an equivalent understanding by demonstrating that they can arrive at the same or similar conclusions.

The value of this information to GEH would be lost if the information were disclosed to the public. Making such information available to competitors without their having been required to undertake a similar expenditure of resources would unfairly provide competitors with a windfall, and deprive GEH of the opportunity to exercise its competitive advantage to seek an adequate return on its large investment in developing and obtaining these very valuable analytical tools.

I declare under penalty of perjury that the foregoing affidavit and the matters stated therein are true and correct to the best of my knowledge, information, and belief.

Executed on this 4<sup>th</sup> day of December 2009.

  
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Larry J. Tucker  
GE-Hitachi Nuclear Energy Americas LLC