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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.

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 12-043, Revision 3

Docket number: 05200010

September 27, 2013

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

Subject: **NRC Requests for Additional Information Related to the Audit of the Economic Simplified Boiling Water Reactor (ESBWR) Steam Dryer Design Methodology Supporting Chapter 3 of the ESBWR Design Control Document - Revised Engineering Report NEDE-33408.**

References:

1. MFN 12-037, Letter from USNRC to Jerald G. Head, GEH, Subject: Request for Additional Information Letter No. 414 Related to ESBWR Design Certification Application (DCD) Revision 9, received May 1, 2012.

2. MFN 12-043, Letter from GEH to USNRC, Subject: NRC Requests for Additional Information Related to the Audit of the Economic Simplified Boiling Water Reactor (ESBWR) Steam Dryer Design Methodology Supporting Chapter 3 of the ESBWR Design Control Document – Draft Response for RAIs 3.9-269 and 3.9-270, dated September 27, 2012.

3. MFN 12-043, Revision 1, Letter from GEH to USNRC, Subject: NRC Requests for Additional Information Related to the Audit of the Economic Simplified Boiling Water Reactor (ESBWR) Steam Dryer Design methodology Supporting Chapter 3 of the ESBWR Design Control Document – Final Response for RAI 3.9-269, dated February 7, 2013.

4. MFN 13-019, Email from USNRC to Jerald G. Head, GEH, Subject: ESBWR Supplemental RAIs, dated March 27, 2013.

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5. MFN 12-043, Revision 2, Letter from GEH to USNRC, Subject: NRC Requests for Additional Information Related to the Audit of the Economic Simplified Boiling Water Reactor (ESBWR) Steam Dryer Design methodology Supporting Chapter 3 of the ESBWR Design Control Document –Response for RAI 3.9-269, Supplement 1 dated August 9, 2013.

In regard to the Requests for Additional Information (RAI) that the NRC transmitted in its March 27, 2013, Email, Reference 4, to support the NRC ESBWR Steam Dryer Methodology Audit conducted March 21 – 23, 2012, Docket 05200010, please find enclosed the revised Engineering Report NEDE-33408P, previously transmitted in Reference 5.

GEH's review of the data used in the generation of Figures in NEDE-33408P found that the incorrect Bias & Uncertainty was applied to the lower dryer sensors in the spectrum comparison analysis. This affected the comparison plots for the strain gages S1 through S5, the sensors on the lower dryer. No part of the GEH response to RAI 3.9-269 or 3.9-269 S01 was affected including the conclusions except for the referenced report, NEDE-33408P Revision 3. Therefore that report has been revised and is attached.

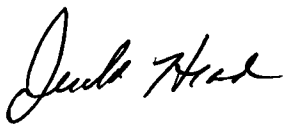
Enclosure 1 contains proprietary information. The proprietary information is contained within brackets [[ ]] and is designated in red font with dotted underline to assist in identification. This report contains proprietary information identified by GE-Hitachi Nuclear Energy, Americas LLC, and should be protected accordingly.

Enclosure 1 contains revised ESBWR steam dryer report, NEDE-33408P (proprietary version). Enclosure 2 is a duplicate Enclosure 1 with the proprietary information redacted, and is also acceptable for public release. Enclosure 3 provides an affidavit which sets forth the basis for requesting that Enclosure 1 be withheld from the public.

If you have any questions concerning this letter, please contact Peter Yandow at 910-819-6378.

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. GE Hitachi Nuclear Energy, "ESBWR Steam Dryer – Plant Based Load Evaluation Methodology, PBLE01 Model Description," NEDE-33408P, Revision 4 (Proprietary), September 2013 – Proprietary Version.

2. GE Hitachi Nuclear Energy, "ESBWR Steam Dryer – Plant Based Load Evaluation Methodology, PBLE01 Model Description," NEDO-33408, Revision 4 (Non-Proprietary), September 2013 – Public Version.

3. Affidavit for MFN 12-043, Revision 3.

cc: David Misenhimer, NRC
Glen Watford, GEH
Peter Yandow, GEH
Patricia Campbell, GEH
Mark Colby, GEH
Scott Bowman, GEH
Tim Enfinger, GEH
eDRF Section 0000-0157-5022, Rev. 5