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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 06-205, Supplement 3

Docket No. 52-010

July 9, 2008

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

Subject: **Submission of Licensing Topical Report (LTR) NEDE-33279P, "ESBWR Containment Fission Product Removal Evaluation Model", Revision 2, July 2008**

This letter hereby submits the GE-Hitachi Nuclear Energy Americas (GEH) Revision 2 of Licensing Topical Report (LTR) NEDE-33279P entitled "ESBWR Containment Fission Product Removal Evaluation Model". GEH has incorporated changes in the LTR revision to address Request for Additional Information (RAIs) 15.4-6S01, Item c), and 15.4-22S01, Item d) that were provided in NRC RAI letter 181 (Reference 1), and has determined that Accident Scenario (AS) -1 for the Gravity-Driven Cooling System (GDCCS) line break at low reactor pressure vessel pressure is bounding. Additionally, this revision incorporates the VTT Report VTT-R-06771-07, "Estimation and Modeling of Effective Fission Product Decontamination Factor for ESBWR Containment Part 3", Revision 2 submitted to the NRC on March 31, 2008 (Reference 2).

Please note, the revised LOCA calculation includes the dose consequences from leakage through the feedwater lines. The dose consequences for the feedwater leakage were calculated by adjusting the results from PCCS leakage, accounting for differences in flow rates and atmospheric dispersion factors, rather than performing a direct RADTRAD calculation, as discussed in Section 5.2 of the report.

Enclosure 1 contains GEH proprietary information as defined by 10 CFR 2.390. GEH customarily maintains this information in confidence and withholds it from public disclosure. A non-proprietary version is provided in Enclosure 2.

DKB
NRC

The affidavit contained in Enclosure 3 identifies that the information contained in Enclosure 1 has been handled and classified as proprietary to GEH. GEH hereby requests that the information of 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,



Richard E. Kingston
Vice President, ESBWR Licensing

References:

1. MFN 08-427 Letter from U.S. Nuclear Regulatory Commission to James C. Kinsey, GEH, *Request for Additional Information Letter No. 181 Related to the ESBWR Design Certification Application*, dated April 22, 2008
2. MFN 07-466, Supplement 1, James C. Kinsey, GEH to U.S. Nuclear Regulatory Commission, *Transmittal of "Estimation and Modeling of Effective Product Decontamination Factor for ESBWR Containment – Part 3" Research Report VTT-R-06771-07, Revision 2*, dated March 31, 2008.

Enclosures:

1. Licensing Topical Report NEDE-33279P, "*ESBWR Containment Fission Product Removal Evaluation Model*", Revision 2, July 2008 – GEH Proprietary Information
2. Licensing Topical Report NEDO-33279, "*ESBWR Containment Fission Product Removal Evaluation Model*", Revision 2, July 2008 – Non-Proprietary Version
3. Affidavit – David H. Hinds – Executed July 9, 2008

cc: AE Cabbage USNRC (with enclosure)
GB Stramback GEH/San Jose (with enclosure)
RE Brown GEH/Wilmington (with enclosure)
eDRF 0000-0058-2189

MFN 06-205, Supplement 3

Enclosure 1

Licensing Topical Report NEDE-33279P, “*ESBWR Containment Fission Product Removal Evaluation Model*”, Revision 2, July 2008

GEH Proprietary Information Notice

This enclosure contains General Electric-Hitachi Nuclear Energy Americas LLC (GEH) proprietary information and is furnished in confidence solely for the purpose(s) stated in the transmittal letter. No other use, direct or indirect, of the document or the information it contains is authorized. Furnishing this enclosure does not convey any license, express or implied, to use any patented invention or, except as specified above, any proprietary information of GEH disclosed herein or any right to publish or make copies of the enclosure without prior written permission of GEH. Each page is stamped “GEH Proprietary Information.” The proprietary information is in dark red font enclosed within double brackets. [[This sentence is an example. ⁽³⁾]] Figures and large equation objects are enclosed in double brackets. Paragraph (3) of the enclosed affidavit provides the basis for the proprietary determination.

MFN 06-205, Supplement 3

Enclosure 2

**Licensing Topical Report NEDO-33279, “*ESBWR
Containment Fission Product Removal Evaluation
Model*”, Revision 2, July 2008**

Non-Proprietary Version