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MFN 09-191

Docket No. 52-010

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

Subject: **Transmittal of Licensing Topical Report (LTR) NEDO-33337,
Revision 1, "ESBWR Initial Core Transient and Accident
Analysis" – April 2009**

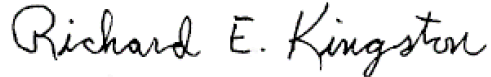
Revision 0 of the subject LTR was provided in Reference 1. Since that time, GEH has responded to Staff Request for Additional Information (RAIs) related to the LTR. Revision 1 of the subject LTR incorporates the following RAIs:

<u>RAI Number</u>	<u>GEH MFN Letter</u>	<u>Date</u>
4.3-22	08-796	10/17/08
4.4-59	08-438	05/02/08
4.4-60	08-438	05/02/08
15.2-16	08-676	09/10/08
15.2-17	08-618	08/11/08
15.2-20	08-690	10/17/08
15.2-23	08-796	10/17/08
15.2-24	08-676	09/10/08
15.2-27	08-690	10/17/08
15.2-29	08-676	09/10/08
15.2-30	08-676	09/10/08
15.2-33	08-690	10/17/08
15.2-51	08-888	12/13/08
15.2-52	09-007	02/06/09
15.3-35	09-140	03/01/09

In addition to the RAI response incorporation provided in the GEH letters above, steady-state and transient analysis was updated due to new level-2 PC version of TRACG, TRACG channel loss coefficient and an updated core loading pattern.

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

Sincerely,



Richard E. Kingston
Vice President, ESBWR Licensing

Reference:

1. MFN 07-521, Supplement 1, Letter from James C. Kinsey, GEH, to U.S. Nuclear Regulatory Commission *Transmittal of Licensing Topical Report (LTR) NEDO-33337 "ESBWR Transient and Accident Analysis"*, dated October 26, 2007

Enclosure:

MFN 09-191 NEDO-33337, Revision 1 "ESBWR Initial Core Transient and Accident Analysis" – April 2009

cc: AE Cabbage USNRC (with enclosure)
 JG Head GEH/Wilmington (with enclosure)
 DH Hinds GEH/Wilmington (with enclosure)
 eDRFs 0000-0074-9757 R2

MFN 09-191

NEDO-33337, Revision 1

**“ESBWR Initial Core Transient
and Accident Analysis” – April 2009**