

September 9, 2011

Mr. Jerald G. Head  
Senior Vice President, Regulatory Affairs  
GE-Hitachi Nuclear Energy Americas LLC  
P.O. Box 780, M/C A-18  
Wilmington, NC 28401-0780

SUBJECT: FINAL SAFETY EVALUATION FOR GE HITACHI NUCLEAR ENERGY  
AMERICAS TOPICAL REPORT NEDO-33173, SUPPLEMENT 4,  
"IMPLEMENTATION OF PRIME MODELS AND DATA IN DOWNSTREAM  
METHODS" (TAC NO. ME1704)

Dear Mr. Head:

By letter dated July 10, 2009 (Agencywide Documents Access and Management System Accession No. ML091910490), GE Hitachi Nuclear Energy Americas (GEH) submitted Topical Report (TR) NEDO-33173, Supplement 4, "Implementation of PRIME Models and Data in Downstream Methods," to the U.S. Nuclear Regulatory Commission (NRC) staff. By letter dated July 16, 2010, an NRC draft safety evaluation (SE) regarding our approval of TR NEDC-33173P, Supplement 4, was provided for your review and comment. By letter dated September 30, 2010, GEH responded indicating that it had no comments on the draft SE.

The NRC staff has found that TR NEDC-33173P, Supplement 4, is acceptable for referencing in licensing applications for GEH-designed boiling water reactors to the extent specified and under the limitations delineated in the TR and in the enclosed final SE. The final SE defines the basis for our acceptance of the TR.

Our acceptance applies only to material provided in the subject TR. We do not intend to repeat our review of the acceptable material described in the TR. When the TR appears as a reference in license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this TR will be subject to a plant-specific review in accordance with applicable review standards.

In accordance with the guidance provided on the NRC website, we request that GEH publish an accepted version of this TR within three months of receipt of this letter. The accepted version shall incorporate this letter and the enclosed final SE after the title page. Also, the accepted version must contain historical review information, including NRC requests for additional information (RAI) and your responses. The accepted version shall include an "-A" (designating accepted) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the TR were provided to the NRC staff to support the resolution of RAI responses, and the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

J. Head

- 2 -

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the TR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, GEH and/or licensees referencing it will be expected to revise the TR appropriately, or justify its continued applicability for subsequent referencing.

Sincerely,

**/RA/**

Robert A. Nelson, Deputy Director  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 710

Enclosure:  
Final SE

cc w/encl: See next page

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Robert A. Nelson, Deputy Director  
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Final SE

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GE-Hitachi Nuclear Energy Americas

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