



HITACHI

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MFN 08-049

Docket No. 52-010

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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. 122 – DCD Tier 2, Section 3.7 – RAI
Number 3.7-62**

The purpose of this letter is to submit the GE Hitachi Nuclear Energy (GEH) response to the U.S. Nuclear Regulatory Commission (NRC) Request for Additional Information (RAI) sent by Reference 1. RAI Number 3.7-62 is addressed in Enclosure 1.

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

Sincerely,

James C. Kinsey
Vice President, ESBWR Licensing

DC68
NRO

Reference:

1. MFN 07-659, Letter from U.S. Nuclear Regulatory Commission to Robert E. Brown, *Request for Additional Information Letter No. 122 Related to ESBWR Design Certification Application*, December 6, 2007

Enclosure:

1. Response to Portion of NRC Request for Additional Information Letter No. 122 Related to ESBWR Design Certification Application, DCD Tier 2, Section 3.7 – Seismic Design, RAI Number 3.7-62

cc: AE Cubbage USNRC (with enclosure)
DH Hinds GEH/Wilmington (with enclosure)
GB Stramback GEH/San Jose (with enclosure)
RE Brown GEH/Wilmington (with enclosure)
eDRF 0000-0079-4391

Enclosure 1

MFN 08-049

Response to Portion of NRC Request for

Additional Information Letter No. 122

Related to ESBWR Design Certification Application

DCD Tier 2, Section 3.7 - Seismic Design

RAI Number 3.7-62

NRC RAI 3.7-62:

As part of the resolution of RAI 3.7-38, the staff requests that the applicant identify a COL information item specifying that the COL applicant verifies that the iterated soil properties at the site fall in the range of those considered in the generic Soil Structure Interaction analysis.

GE Response:

As required in DCD Tier 2, Revision 4, Subsection 2.0.1, Item 2.0.1-A, each COL applicant will demonstrate in their COL application how the site soil shear wave velocities meet or exceed the ESBWR DCD site parameter value for minimum soil shear wave velocity as specified in DCD Tier 2 Table 2.0-1.

Note 8 to DCD Tier 2 Table 2.0-1 states that minimum soil shear wave velocity is at seismic strain. Seismic strain, by definition, is an iterated soil property.

DCD Impact:

No DCD change is required in response to this RAI.