



GE Energy

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MFN 06-303

Docket No. 52-010

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U.S. Nuclear Regulatory Commission
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Subject: **Response to NRC Request for Additional Information Letter No. 55
Related to ESBWR Design Certification Application – Floor Response
Spectra Reduction Factors – RAI Number 3.7-58**

Enclosure 1 contains GE's response to the subject NRC RAI transmitted via the Reference 1 letter. This completes GE's response to RAI Letter No. 55.

If you have any questions about the information provided here, please let me know.

Sincerely,

Kathy Sedney for

David H. Hinds
Manager, ESBWR

D068

Reference:

1. MFN 06-306, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 55 Related to ESBWR Design Certification Application*, August 22, 2006

Enclosure:

1. MFN 06-303 – Response to NRC Request for Additional Information Letter No. 55 Related to ESBWR Design Certification Application – Floor Response Spectra Reduction Factors – RAI Number 3.7-58

cc: WD Beckner USNRC (w/o enclosures)
AE Cabbage USNRC (with enclosures)
LA Dudes USNRC (w/o enclosures)
GB Stramback GE/San Jose (with enclosures)
eDRF 0000-0058-0580

Enclosure 1

MFN 06-303

Response to NRC Request for

Additional Information Letter No. 55

Related to ESBWR Design Certification Application

Floor Response Spectra Reduction Factors

RAI Number 3.7-58

NRC RAI 3.7-58

During the discussion of General Electric's (GEs) response to RAI 3.7-44 at the on-site audit from June 5 to 8, 2006, GE indicated that before broadening the in-structure response spectra by ± 15 percent, incoherence reduction factors, taken from ASCE 4-98, were applied to the raw spectrum results obtained from the time history analysis. The staff does not accept the incoherence reduction factors from ASCE 4-98. Therefore, the staff requests that GE submit an ESBWR specific technical basis for using the incoherence reduction factors.

GE Response

The third bullet "The reduction factors due to wave incoherence according to ASCE 4-98 are applied to the site-envelope response spectra" in DCD Section 3A.9.2 will be deleted and DCD Figures 3A.9-1a through 3A.9-3g will be revised accordingly in the next DCD update.