



GE Energy

Security Notice

This letter forwards Security-Related information in accordance with 10CFR2.390. Upon removal of Enclosure 1, the balance of this letter may be considered non-Security-Related.

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MFN 07-047

Docket No. 52-010

January 29, 2007

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

Subject: Partial Response to RAI Letter No 69 Related to ESBWR Design Certification
Application – Safety Analysis – RAI Number 15.4-5

Enclosure 1 contains Security-Related information identified by the designation “{{{Security-Related Information - Withhold Under 10 CFR 2.390}}}.” GE hereby requests this information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390. A public version is contained in Enclosure 2

If you have any questions or require additional information regarding the information provided here, please contact me.

Sincerely,

James C. Kinsey for

James C. Kinsey
Project Manager, ESBWR Licensing

Reference:

1. MFN 06-381, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 69 Related to ESBWR Design Certification Application*, October 11, 2006

Enclosures:

1. MFN 07-047 – Request for Additional Information Letter No. 69 Related to ESBWR Design Certification Application, Safety Analysis – RAI 15.4-5 – Contains Security-Related Information – Withhold Under 10 CFR 2.390
2. MFN 07-047 – Request for Additional Information Letter No. 69 Related to ESBWR Design Certification Application, Safety Analysis – RAI 15.4-5 – Public Version

cc: AE Cubbage USNRC (with enclosures)
GB Stramback/GE/San Jose (with enclosures)
eDRF 0063-0391

Enclosure 2

MFN 07-047

**Response to Portion of NRC Request for
Additional Information Letter No. 69
Related to ESBWR Design Certification Application**

Safety Analysis

RAI Number 15.4-5

Public Version

NRC RAI 15.4-5:

Additional information is required for the fuel building design and configuration to preclude a postulated spent fuel cask drop.

(A) DCD Tier 2, Revision 1, Section 15.4.10.1 states that the fuel building design is such that a spent fuel cask drop height of 9.2 meters, as specified in SRP 15.7.5, is not exceeded. Please provide a copy of fuel building layout showing the height of spent fuel cask transfer path in the fuel building.

(B) DCD Tier 2, Revision 1, Section 15.4.11 lists "COL information". Please state if any of items listed is a COL Action item or an ITAAC item.

GE Response:

(A) The figures corresponding to spent fuel cask movement are provided below. The figures also summarize the incremental lifts to move the cask from elevation -10000 (the floor of the cask pit) to elevation +4650. The cask is initially raised from elevation -10000 to the structure designated as the "shelf" in the figures below, which is located at elevation -1300, which is an 8.7 meter elevation change. The cask is then lifted from the shelf to the floor of the Fuel Building, which is at an elevation of +4650. This second step results in an elevation change of 5.95 meters.

{{{Security-Related Information – Withhold Under 10 CFR 2.390}}}

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- (B) DCD Tier 2, Revision 1, Subsection 15.4.11 is intended to summarize all DCD Tier 2, Section 15.4 COL action items. Currently, many of the items listed as COL items in DCD Section 15.4 are assumptions that pertain to the various radiological analyses. Revision 3 of DCD Tier 2, Section 15.4 will properly identify all COL action items in Section 15.4 and summarize them in Section 15.4.11.

DCD Impact:

No DCD changes will be made in response to this RAI.