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MFN 06-465 Supplement 3

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. 68 - Engineered Safety Features - RAI Number 6.3-41 S03**

Enclosure 1 contains the GE Hitachi Nuclear Energy (GEH) response to the subject NRC RAI originally transmitted via the Reference 1 letter and supplemented by an NRC request for clarification in Reference 2.

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

Sincerely,

Kathy Sedney for

James C. Kinsey
Vice President, ESBWR Licensing

D068
NRO

References:

1. MFN 06-379, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 68 Related to ESBWR Design Certification Application*, October 10, 2006
2. E-Mail from Shawn Williams, U.S. Nuclear Regulatory Commission, to George Wadkins, GE Hitachi Nuclear Energy, dated June 7, 2007 (ADAMS Accession Number ML071590012)

Enclosure:

1. MFN 06-465 Supplement 3 - Response to Portion of NRC Request for Additional Information Letter No. 68 - Related to ESBWR Design Certification Application - Engineered Safety Features - RAI Number 6.3-41 S03

cc:

AE Cubbage	USNRC (with enclosures)
GB Stramback	GEH/San Jose (with enclosures)
RE Brown	GEH/Wilmington (with enclosures)
eDRF	0000-0075-7511

Enclosure 1

MFN 06-465 Supplement 3

Response to Portion of NRC Request for

Additional Information Letter No. 68

Related to ESBWR Design Certification Application

Engineered Safety Features

RAI Number 6.3-41 S03

NRC RAI 6.3-41 S03:

In response to RAI 6.3-41 Supplement 1 part (A) GENE provided fuel assembly inlet orifice diameter and GDCS injection line diameter. This information needs to be in the DCD to show that the perforated plate has holes that are small enough to prevent debris sizes that could form blockages from entering. Please update the DCD.

GEH Response:

The response to RAI 6.3-41 S01 has been incorporated in DCD Tier 2, Revision 4, Subsection 6.3.2.7.2, Detailed Design Description, thirteenth paragraph, by addition of the following sentence:

> "The maximum hole diameters in the perforated steel plate are 38 mm (1.5 inch)."

This is consistent with the original response to RAI 6.3-41 S01, MFN 06-465 Supplement 1.

DCD Impact:

The DCD changes described in the above response to this RAI were made in DCD Tier 2, Revision 4.