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MFN 13-040, Supplement 2

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Subject: **NRC Request for Additional Information Related to ESBWR Design Certification Application – GEH Supplemental Response to RAI 8.1-22**

References:

1. MFN 13-038, Letter from USNRC to Jerald G. Head, GEH, "Request for Additional Information Letter No. 416 Related to ESBWR Design Certification Application," July 3, 2013 (ML13183A252)
2. MFN 13-040, Letter from Jerald G. Head, GEH, to USNRC, "NRC Request for Additional Information Related to ESBWR Design Certification Application – GEH Response to RAI 8.1-22," July 30, 2013 (ML13211A206)
3. MFN 13-040, Supplement 1, Letter from Jerald G. Head, GEH, to USNRC, "NRC Request for Additional Information Related to ESBWR Design Certification Application – GEH Response to RAI 8.1-22," August 28, 2013 (ML13242A211)

In regard to the Request for Additional Information (RAI) transmitted in NRC's July 3, 2013, Letter (Reference 1), to support the ESBWR design certification review, please find attached GEH's supplemental response to RAI 8.1-22. This supplemental response modifies the DCD markups provided in GEH's previous responses (References 2 and 3) to clarify that the monitoring of transformers for open circuits to address concerns in NRC Bulletin 2012-01 would detect and alarm open circuits in one or more phases. No other changes were made to the original response.

Enclosure 1 is a supplemental response and Enclosure 2 provides marked-up pages showing changes to the ESBWR Design Control Document that will be included in Revision 10.

If you have questions concerning this letter, please contact Peter Yandow at 910-819-6378.

I declare under penalty of perjury that the foregoing information is true and correct to the best of my knowledge, information, and belief.

Sincerely,

A handwritten signature in black ink that reads "Peter Yandow FOR". The signature is written in a cursive, flowing style.

Jerald G. Head
Senior Vice President, Regulatory Affairs

Commitments: No additional commitments are made in this response.

Enclosures:

1. GEH Supplemental Response to RAI 8.1-22
2. ESBWR DCD Marked-up Pages Associated with GEH Response to RAI 8.1-22

Cc: David Misenhimer, NRC
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