



GE Energy

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MFN 06-231 Supplement 1

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U.S. Nuclear Regulatory Commission
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Subject: **Response to Portion of NRC Request for Additional Information
Letter No. 39 - Engineered Safety Features - RAI Number 6.2-76 S01**

Enclosure 1 contains GE's response to the subject NRC RAI originally transmitted via the Reference 1 letter and supplemented by an NRC request for clarification.

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

Sincerely,

A handwritten signature in cursive script that reads "Kathy Sedney for".

James C. Kinsey
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MFN 06-231 Supplement 1

Page 2 of 2

Reference:

1. MFN 06-202, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 39 Related to ESBWR Design Certification Application*, June 22, 2006

Enclosure:

1. MFN 06-231 Supplement 1 - Response to Portion of NRC Request for Additional Information Letter No. 39 - Related to ESBWR Design Certification Application - Engineered Safety Features - RAI Number 6.2-76 S01

cc: AE Cabbage USNRC (with enclosures)
BE Brown GE/Wilmington (with enclosures)
GB Stramback GE/San Jose (with enclosures)
eDRF 0000-0067-4862

Enclosure 1

MFN 06-231 Supplement 1

Response to Portion of NRC Request for

Additional Information Letter No. 39

Related to ESBWR Design Certification Application

Engineered Safety Features

RAI Number 6.2-76 S01

NRC RAI 6.2-76:

DCD Tier 2, Section 6.2.6 contains numerous references to Appendix J reporting requirements. However, all requirements to make reports to the NRC were eliminated from Appendix J (in what is now known as Option A) in 1995, and Option B, promulgated in 1995, also contains no reporting requirements, other than referring to the requirements contained in 10 CFR 50.72 and 10 CFR 50.73.

Correct these statements in Section 6.2.6 of the DCD.

GE Original Response:

Comment is accepted. The following changes will be made in DCD Tier 2, Revision 2:

Section 6.2.6.1.1, under heading "Acceptance Criteria", first bullet will be revised by deleting the following:

"The calculated leakage rate and upper 95% confidence limit are reported to the NRC."

Section 6.2.6.1.1, under heading "Acceptance Criteria", third bullet will be revised by deleting the following in the last sentence:

"and included in the report to be submitted to the NRC."

Section 6.2.6.1.1, under heading "Prerequisites", first bullet will be revised by deleting the following:

"The structural deterioration and corrective action are reported to the NRC in accordance with Appendix J of 10 CFR 50."

Section 6.2.6.1.2, third paragraph will be revised by deleting the following:

"If any ILRT fails to meet the acceptance criteria prior to corrective action, the test schedule applicable to subsequent ILRTs shall be subject to review and approval by the NRC."

Section 6.2.6.2, third paragraph will be revised by deleting the following:

"If repairs are required to meet this limit, the results are reported in a separate summary to the NRC."

Section 6.2.6.3, last paragraph will be revised by deleting the following:

"If repairs are required to meet this limit, the results are reported in a separate summary to the NRC, including description of the structural conditions of the components that contributed to the failure."

Section 6.2.6.4, second paragraph will be revised by deleting the following:

"Type A, B, and C test results are submitted to the NRC in the summary report approximately three months after each test."

The DCD changes are shown in Attachment A.

NRC RAI 6.2-76 S01:

The sentence to be deleted [Section 6.2.6.1.2, third paragraph] refers to a requirement which is not a reporting requirement. It is a current requirement of Appendix J, Option A. Licensees do not have to make a report to the NRC or request NRC review and approval of their test schedule. However, the NRC has the right, on its own initiative, to review and approve or disapprove a licensee's subsequent test schedule after an ILRT failure. The quoted sentence should not be deleted from the DCD.

GE Response:

GE will revise DCD Tier 2, Section 6.2.6.1.2, in DCD Tier 2, Revision 4, to add the sentence deleted in DCD Tier 2, Revision 2.

DCD Impact:

DCD Tier 2, Section 6.2.6.1.2, paragraph 3, will be revised in DCD Tier 2, Revision 4, as shown in the attached markup.

[DCD Tier 2, Section 6.2.6.1.2, 3rd Paragraph]

If 10 CFR 50 Appendix J Option A is followed and if any ILRT fails to meet the acceptance criteria prior to corrective action, the test schedule applicable to subsequent ILRTs shall be subject to review and approval by the NRC. If two consecutive periodic ILRTs fail to meet the acceptance criteria prior to corrective action, an ILRT is performed at each plant shutdown for major refueling or approximately every 24 months (whichever occurs first), until two consecutive ILRTs meet the acceptance criteria, after which time the previously established periodic retest schedule may be resumed.