

**From:** Amy Cubbage  
**To:** David H (GE Energy) Hinds; Frostie (GE Infra Energy Non-GE) White; George B. (GE Infra Energy) Stramback; James C (GE Infra Energy) Kinsey; Kathy K. (GE Infra Energy) Sedney; Russ M. (GNF) Fawcett; Stephan C. (GE Infra Energy) Moen; William (GE Infra Energy Non-GE) Leonard  
**Date:** Sun, Nov 12, 2006 3:13 PM  
**Subject:** Supplemental Request for Information on Response to RAI Letter #53 (MFN-06-297)

Kathy -

See attached request for supplemental RAI responses regarding RAIs 4.4-6, 4.4-15 - 4.4-17, 4.4-19, 4.4-24, and 4.4-27.

Also, please provide the status of the revised version of NEDC-33237P.

If you have any questions regarding this request for supplement, please contact Martha at 301-415-4115.

Thanks,  
Amy

**CC:** Gilmer, James; Martha Barillas

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**Creation Date** Sun, Nov 12, 2006 3:13 PM  
**From:** Amy Cubbage  
**Created By:** AEC@nrc.gov

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frostie.white (Frostie (GE Infra Energy Non-GE) White)  
george.stramback (George B. (GE Infra Energy) Stramback)  
jim.kinsey (James C (GE Infra Energy) Kinsey)  
kathy.sedney (Kathy K. (GE Infra Energy) Sedney)  
william1.leonard (William (GE Infra Energy Non-GE) Leonard)

gene.GE.com

stephan.moen (Stephan C. (GE Infra Energy) Moen)

gnf.com

Russ.Fawcett (Russ M. (GNF) Fawcett)

nrc.gov  
MCB CC (Martha Barillas)

nrc.gov  
JMG7 CC (James Gilmer)

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## **NRC Supplemental Information Request to RAI letter No. 53 (MFN-06-297)**

1. Comments on response to RAI 4.4-6  
The explanation provided in the response is acceptable. However, a reference to Topical Report NEDC-33238P should be included in DCD Tier 2, Sections 4.4.2.3.1 and 4.4.2.3.2 when the test data is discussed.
2. Comments on response to RAI 4.4-15  
The explanation provided in the response is acceptable. However, a reference to Topical Report NEDC-33238P should be included in DCD Tier 2, Section 4.4.2.3.2.
3. Comments on response to RAI 4.4-16  
The explanation provided in the response is acceptable. However, the discussion should be included in DCD Tier 2, since it provides a more complete explanation of the test data.
4. Comments on response to RAI 4.4-17  
The explanation provided in the response is acceptable. However, a reference to Topical Report NEDC-33238P should be included in DCD Tier 2, Sections 4.4.2.4 when the pressure drop qualification to test data is discussed.
5. Comments on response to RAI 4.4-19  
The proposed wording for the revision to DCD Tier 2, Section 4.4 is acceptable, except the update to Reference 4.4-12 should be the planned November 2006 revision to NEDC-33237P.
6. Comments on response to RAI 4.4-24  
The explanation provided in the response is acceptable. However, the discussion should be included in DCD Tier 2, since it provides a more complete explanation of the test data and ESBWR flow range.
7. Comments on response to RAI 4.4-27  
The response does not provide new calculated R-factor results for the GE14E fuel. The NRC Staff agrees that the methodology should be the same, but differences in total bundle length, spacer separation distance, and part-length rod height should result in significant changes in the results. Provide quantitative R-factor results for the GE14E fuel and GE14 fuel for comparison. Also, provide a revision to the R-factor Topical Report, or a new Topical Report which addresses the ESBWR GE14E fuel design.