



GE Energy

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Project 717

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U.S. Nuclear Regulatory Commission  
Document Control Desk  
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**Subject: GE Response to Results of NRC Acceptance Review for ESBWR  
Design Certification Application – Items 9, 10 and 11 (TAC #  
MC8168)**

In the Reference 1 letter, the NRC indicated that additional information was required in certain areas of the ESBWR design certification application before the NRC could begin its review in those areas. Enclosure 1 contains additional information regarding details of the GE reactor internals flow induced vibration (FIV) program covering structural integrity of the steam dryer and chimney assembly, and reactor pressure vessel internals vibration (items 9, 10 and 11 in the Reference 1 letter).

Enclosure 1 contains a new DCD Appendix 3L, "Reactor Internals Flow Induced Vibration Program." In this new appendix, all of the FIV topics have been combined into one cohesive package. This new appendix will be incorporated into DCD Revision 1. The Reactor Internal Components FIV Evaluation has been split into two parts as shown in section 3.L.2. Our schedule for completion of Part 1 is December 30, 2005. The completion schedule for Part 2 is dependent on the results of Part 1 and cannot be estimated at this time. However, we will provide this information as soon as it is available.

Enclosure 1 is provided in full compliance with GE's Quality Assurance (QA) Program (NEDO-11209-04A, GE Nuclear Energy Quality Assurance Program Description, March 31, 1989), which is NRC approved.

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Consistent with this QA program, Enclosure 1 is identified as "Conditional Release – pending closure of design verifications." While GE has completed review of the technical accuracy and completeness of all the enclosures' content, and believes that the documents are accurate, complete and ready for NRC review, some internal GE documentation remains to be closed. Accordingly, the conditional release status is identified on the document until closure of the internal documentation, which is scheduled for the fourth quarter of 2005.

If you have any questions about the information provided here, please let me know.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Hinds for".

David H. Hinds  
Manager, ESBWR

Reference:

1. MFN 05-103, Letter from U. S. Nuclear Regulatory Commission, to Steven A. Hucik, *Results of Acceptance Review for ESBWR Design Certification Application (TAC NO. MC8168)*, September 23, 2005

Enclosure:

1. MFN 05-116 – DCD Appendix 3L, "Reactor Internals Flow Induced Vibration Program"

cc: WD Beckner USNRC (w/o enclosures)  
AE Cubbage USNRC (with enclosures)  
LA Dudes USNRC (w/o enclosures)  
GB Stramback GE/San Jose (with enclosures)  
eDRF 0000-0047-0474

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Enclosure 1

## **ENCLOSURE 1**

**MFN 05-116**

### **DCD Appendix 3L, “Reactor Internals Flow Induced Vibration Program”**

Conditional Release – pending closure of design verifications