



Tennessee Valley Authority  
1101 Market Street, LP 3R  
Chattanooga, Tennessee 37402-2801

**R. M. Krich**  
Vice President  
Nuclear Licensing

June 15, 2011

10 CFR 54.7

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Browns Ferry Nuclear Plant, Units 1, 2, and 3  
Facility Operating License Nos. DPR-33, DPR-52, and DPR-68  
NRC Docket Nos. 50-259, 50-260, and 50-296

**Subject: BWRVIP-25 Core Plate Bolt Stress Analysis**

- References:
- 1) Letter from TVA to NRC, "Browns Ferry Nuclear Plant (BFN) – Units 1, 2, and 3 – License Renewal Application (LRA) – Revised Commitment List (TAC Nos. MC1704, MC1705, and MC1706)," dated April 21, 2006
  - 2) NRC Letter to TVA, "Issuance of Renewed Facility Operating License Nos. DPR-33, DPR-52, and DPR-68 for Browns Ferry Nuclear Plant, Units 1, 2, and 3 (TAC Nos. MC1704, MC1705, and MC1706)," dated May 4, 2006
  - 3) NUREG-1843, "Safety Evaluation Report Related to the License Renewal of the Browns Ferry Nuclear Plant, Units 1, 2, and 3," dated April 2006

On May 4, 2006, the Nuclear Regulatory Commission (NRC) issued Renewed Facility Operating Licenses to the Tennessee Valley Authority (TVA) for Browns Ferry Nuclear Plant, Units 1, 2, and 3. Per NUREG-1843 (Reference 3), TVA committed to perform a plant specific stress analysis of the Core Plate Hold Down Bolts as described in the Boiling Water Reactor Vessel Internals Program (BWRVIP)-25. Additionally, TVA committed to provide this analysis to the NRC two years prior to the start of the period of extended operation.

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U.S. Nuclear Regulatory Commission  
Page 2  
June 15, 2011

In accordance with NUREG-1843, Browns Ferry (Units 1–3) Core Plate Bolt Analysis Stress Analysis Report, NEDC-33632P (GE Proprietary) is provided in Enclosure 1.

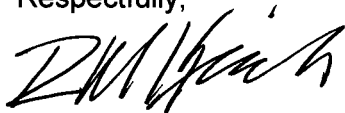
Enclosure 1 to this letter contains information that GE Hitachi considers to be proprietary in nature, and subsequently, pursuant to 10 CFR 2.390, "Public inspections, exemptions, requests for withholding," paragraph (a)(4), it is requested that this information be withheld from public disclosure.

Enclosure 2 contains the redacted version of Enclosure 1 with the proprietary material removed, suitable for public disclosure.

Enclosure 3 provides the affidavit supporting the request for withholding from public disclosure.

This letter does not include any new regulatory commitments. Please direct any questions concerning this matter to Tom Matthews at (423) 751-2687.

Respectfully,



R. M. Krich

Enclosures:

- 1) Browns Ferry (Units 1–3) Core Plate Bolt Analysis Stress Analysis Report, NEDC-33632P (GE Proprietary)
- 2) Browns Ferry (Units 1–3) Core Plate Bolt Analysis Stress Analysis Report, NEDC-33632 (GE Non-Proprietary)
- 3) Affidavit

cc (Enclosures):

NRC Regional Administrator – Region II  
NRC Senior Resident Inspector – Browns Ferry Nuclear Plant