



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

April 25, 2013

10 CFR 50.4
10 CFR 50.71(e)

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

Watts Bar Nuclear Plant, Unit 1
Facility Operating License No. NPF-90
NRC Docket No. 50-390

Subject: Watts Bar Nuclear Plant (WBN) Unit 1 - Updated Final Safety Analysis Report (UFSAR) Amendment 10

- References:**
1. Tennessee Valley Authority (TVA) letter to the Nuclear Regulatory Commission (NRC) dated April 20, 2010, "Watts Bar Nuclear Plant (WBN) Unit 1 - Updated Final Safety Analysis Report Amendment 8"
 2. Tennessee Valley Authority (TVA) letter to the Nuclear Regulatory Commission (NRC) dated September 1, 2010, "Watts Bar Nuclear Plant (WBN) – Unit 2 – Final Safety Analysis Report (FSAR), Amendment 100"
 3. TVA letter to the NRC dated November 21, 2011, "Watts Bar Nuclear Plant (WBN) Unit 1 - Updated Final Safety Analysis Report (UFSAR) Amendment 9"
 4. TVA letter to the NRC dated February 10, 2012, "Watts Bar Nuclear Plant (WBN) Unit 1 – Correction to Updated Final Safety Analysis Report (UFSAR) Amendment 9"

Consistent with the requirements of 10 CFR 50.4 and 10 CFR 50.71(e), enclosed for Watts Bar Nuclear Plant (WBN) Unit 1, is a compact disc (CD-ROM) that contains Amendment 10 of the Updated Final Safety Analysis Report (UFSAR). TVA is submitting this amendment in accordance with NRC's Electronic Information Exchange.

A053
NRC

Amendment 10 reflects changes and analyses made since the issuance of Amendment 9 (References 3 and 4). This includes editorial corrections and changes in design pursuant to 10 CFR 50.59, "Changes, Tests, and Experiments." A summary of the evaluations made under the provisions of 10 CFR 50.59 is being provided under a separate letter.

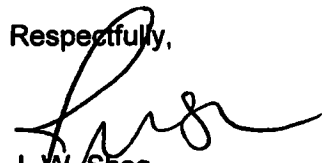
After the submittal of UFSAR Amendment 8 (Reference 1), TVA contacted the NRC to confirm acceptability of the amendment due to some documents, including some of the figures in Amendment 8, not being text searchable. From this discussion, TVA agreed to add text searchable title blocks to the figures that were updated for each subsequent amendment until the licensing of WBN Unit 2 is complete. The basis for this action is that TVA committed in Reference 2 to merge the Unit 2 Final Safety Analysis Report (FSAR) with the Unit 1 UFSAR after Unit 2 is licensed to create a UFSAR that addresses both units. That amendment may require the removal or replacement of numerous figures, and therefore, will be the correct point to ensure the applicable figures for both units meet all NRC requirements for electronic submittals.

This letter certifies that the information provided in the enclosed Amendment 10 accurately reflects information and analysis from changes made since the issuance of Amendment 9. Please direct any questions concerning this matter to Donna Guinn, Licensing Manager, at (423) 365-1589.

There are no regulatory commitments associated with this submittal.

I declare under penalty of perjury that the foregoing is true and correct. Executed on this 25th day of April 2013.

Respectfully,



J. W. Shea
Vice President, Nuclear Licensing

Enclosure:

Updated Final Safety Analysis Report - Amendment 10

cc: NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Watts Bar Nuclear Plant, Unit 1
NRC Senior Resident Inspector - Watts Bar Nuclear Plant, Unit 2

ENCLOSURE

**Watts Bar Nuclear Plant
Updated Final Safety Analysis Report
Amendment 10
(Provided on Enclosed Compact Disc)**