Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

June 12, 2014

10 CFR 50.4

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

Watts Bar Nuclear Plant, Unit 2
Construction Permit No. CPPR-92
NRC Docket No. 50-391

Subject: **Watts Bar Nuclear Plant, Unit 2 Response to NRC Bulletin 2012-01, "Design Vulnerability in Electrical Power System"**

References:

1. NRC Bulletin 2012-01, "Design Vulnerability in Electrical Power System," dated July 27, 2012
2. TVA Letter to NRC, "90-Day Response to NRC Bulletin 2012-01, 'Design Vulnerability in Electrical Power System,'" dated October 25, 2012
3. NRC Letter to Those on the Enclosed List, "Request for Additional Information Regarding Response to Bulletin 2012-01, 'Design Vulnerability in Electrical Power System,'" dated December 20, 2013
4. TVA Letter to NRC, "Response to Request for Additional Information Regarding Response to Bulletin 2012-01, 'Design Vulnerability in Electrical Power System'", dated February 3, 2014
5. NRC Electronic Mail (email) from Siva Lingam to Gordon Arent, on Watts Bar Unit 2 - Open Phase and Open Item 30 RAIs, dated February 27, 2014

In Reference 1, the Nuclear Regulatory Commission (NRC) requested that information be provided describing how the protection scheme for Engineered Safety Feature (ESF) buses is designed to detect and automatically respond to single-phase open circuit conditions or high impedance ground fault conditions, including a description of the operating configuration of the ESF buses. Tennessee Valley Authority (TVA) provided the requested

information for TVA's nuclear plants, including Watts Bar Nuclear Plant (WBN) Unit 2, in Reference 2. In Reference 3, NRC requested that additional information be provided regarding the completion of interim actions, compensatory measures, and the status of long-term corrective actions. TVA provided this additional information in Reference 4.

Enclosed is a proposed WBN Unit 2 license condition for completion of actions associated with resolution of Bulletin 2012-01. The proposed license condition also addresses the information NRC requested in Question 5 of Reference 5 regarding actions TVA is taking with respect to the Open Phase Issue.

There are no new regulatory commitments contained in this letter. If you have questions regarding this matter, please contact me at (423) 365-1260 or Gordon Arent at (423) 365-2004.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 12th day of June 2014.

Respectfully,

R. A. Hruby, Jr.

Raymond A. Hruby, Jr.
General Manager, Technical Services
Watts Bar Unit 2

Enclosure:

Watts Bar Nuclear Plant, Unit 2 Proposed License Condition

cc: See page 3

cc (Enclosure):

U. S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

NRC Resident Inspector Unit 2
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

ENCLOSURE
Watts Bar Nuclear Plant, Unit 2 Proposed License Condition

Condition 2.H

Actions will be implemented at WBN Unit 2 to resolve the issues identified in Bulletin 2012-01, "Design Vulnerability in Electrical Power System," on or before December 31, 2017, in accordance with the NEI Open Phase Condition Initiative APC-13-28, dated October 10, 2013. Actions will be implemented concurrently with WBN Unit 1, with the exception of items that may only be implemented during an outage on WBN Unit 2.