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

CNL-15-062

April 3, 2015

10 CFR § 50.4

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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 – Supplemental Safety Evaluation Report Appendix HH – Open Item 1 – Power Assisted Cable Pulls**

References:

1. Letter from TVA to NRC, "Watts Bar Nuclear Plant (WBN) – Unit 2 – Regulatory Framework for the Completion of Construction and Licensing Activities for Unit 2," dated January 29, 2008 [ADAMS Accession No. ML080320443]
2. Letter from TVA to NRC, "Watts Bar Nuclear Plant (WBN) – Unit 2 – Cable Issues Corrective Action Program for the Completion of WBN Unit 2," dated May 29, 2008 [ADAMS Accession No. ML081560183]
3. Letter from TVA to NRC, "Watts Bar Nuclear Plant (WBN) - Unit 2 – Final Safety Analysis Report (FSAR), Amendment 112," dated May 30, 2014 [ADAMS Accession No. ML14155A256]

The purpose of this letter is to provide information related to power assisted cable pulls that have been recently performed and to provide information that will permit the Nuclear Regulatory Commission (NRC) to complete activities necessary to close Supplemental Safety Evaluation Report (SSER) Appendix HH, Open Item 1.

Cable issues were one of the Corrective Action Programs that Tennessee Valley Authority (TVA) identified in the framework document for completion of Watts Bar Nuclear Plant (WBN) Unit 2 (Reference 1). Reference 2 identified power assisted cable pulls as open item 1, subsequently tracked as SSER Appendix HH, Open Item 1. When TVA submitted Final Safety Analysis Report Amendment 112 (Reference 3), TVA stated that there would be no additional power assisted cable pulls. TVA subsequently determined that several additional power assisted cable pulls were required.

Cable 2V3000B, Route Part 2 (three 1/c 300 kcmil (thousand circular mil) conductors) and cable 2V4231B, Route Part 3 (two 1/c #4 AWG (American Wire Gauge) conductors) were mechanically pulled through a 3-inch rigid conduit under work order (WO) 115100545. Cable 2V2980A, Route Part 2 (three 1/c 300 kcmil) and cable 2V4230A, Route Part 3 (two 1/c #4 AWG) were mechanically pulled through three 3-inch rigid conduits under WO 115100231. The maximum allowable pulling tension for these cables was calculated, including a safety margin. The maximum tension applied to the cables was measured during the mechanical pulls and the allowable limit was not exceeded.

The main concern with the use of mechanical assistance during cable pulling activities is the potential for cable jamming. Cables that are subject to jamming are 3 equally sized #10 AWG or larger single conductor cables being pulled through a conduit. The cables described in the previous paragraph are single-conductor cables, but there were 5 conductors in each conduit of 2 different sizes (3 - 300 kcmil and 2 - #4 AWG) and therefore, jamming is not a concern. It has been determined that there are no safety related cables containing three equally sized single-conductor cables #10 AWG or larger that remain to be pulled for WBN Unit 2.

There are no new regulatory commitments associated with this submittal. If you have any questions, please contact Gordon Arent at (423) 365-2004.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 3rd day of April, 2015.

Respectfully,

J. W. Shea
Vice President, Nuclear Licensing

cc:

NRC Regional Administrator – Region II
NRC Senior Resident Inspector – Watts Bar Nuclear Plant, Unit 2
NRC Project Manager – Watts Bar Nuclear Plant, Unit 2