



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

CNL-14-141

August 29, 2014

10 CFR 50.34
10 CFR 50, Appendix E

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

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

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

**Subject: WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - RESPONSE TO
REQUEST FOR ADDITIONAL INFORMATION ON THE RADIOLOGICAL
EMERGENCY PLAN**

- References:
1. NUREG-0847, Supplement 22, "Safety Evaluation Report Related to the Operation of Watts Bar Nuclear Plant, Unit 2," published February 2011.
 2. Tennessee Valley Authority letter to NRC, "Watts Bar Nuclear Plant (WBN) Units 1 and 2 - Radiological Emergency Plan Updated Appendix C," dated February 18, 2014.
 3. Tennessee Valley Authority letter to NRC, "Radiological Emergency Plan Revision," dated April 16, 2014.
 4. Electronic Mail from NRC to TVA, "Watts Bar, Unit 2 - RAIs for Radiological Emergency Plan (NP-REP, Revision 103)," dated June 16, 2014.

In Reference 1, the Nuclear Regulatory Commission (NRC) provided the Safety Evaluation for the Tennessee Valley Authority (TVA) Radiological Emergency Plan (REP) for Watts Bar Nuclear Plant (WBN) Unit 2. In the Safety Evaluation, Open Item 37 was created for the NRC to review the combined WBN Units 1 and 2 Appendix C to the REP prior to issuance of the WBN Unit 2 Operating License to confirm that any changes made since the previous submittal of the REP do not affect the bases for the Safety Evaluation findings. The basis for the NRC Safety Evaluation was Revision 92XX, which was based on Revision 92 of the WBN Unit 1 REP Appendix C with Unit 2 changes incorporated.

In Reference 2, TVA provided an updated Appendix C for Watts Bar Units 1 and 2 (Revision 103XX) that is based on Revision 103 of the WBN Unit 1 REP Appendix C. Reference 3 submitted the updated REP Revision 103 for the TVA fleet.

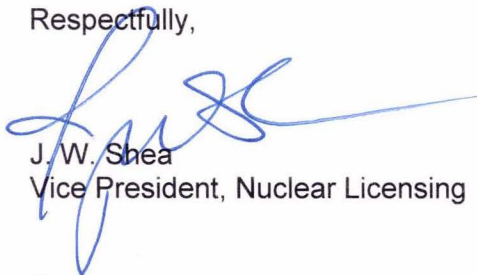
By email dated June 16, 2014 (Reference 4), the NRC requested additional information related to REP Revision 103 and REP Appendix C, Revision 103XX.

The purpose of this submittal is to address questions in Reference 4 that were identified by the NRC staff during the review of REP Appendix C Revision 103XX and REP Revision 103. Enclosure 1 to this letter responds to those questions. There are four new regulatory commitments contained in this letter. Enclosure 2 provides the list of commitments for this letter.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 29th day of August 2014.

If you have any questions or comments, please contact Gordon Arent at (423) 365-2004.

Respectfully,



J. W. Shea
Vice President, Nuclear Licensing

Enclosure:

1. Response to the NRC Request for Additional Information on the Radiological Emergency Plan for Watts Bar Nuclear Plant
2. List of Commitments

cc (Enclosure):

U. S. Nuclear Regulatory Commission
Region II
NRC Resident Inspector WBN Unit 1
NRC Resident Inspector WBN Unit 2
NRR Project Manager - Watts Bar Nuclear Plant