



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

CNL-13-147

December 18, 2013

10 CFR 50.4
10 CFR 50.90

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

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

Subject: Supplemental Response to NRC Health Physics and Human Performance Branch Request for Additional Information Related to License Amendment Request for Watts Bar Nuclear Plant (WBN) Unit 1 Updated Final Safety Analysis Report Changes Associated with Hydrologic Analysis (TAC No. ME9130)

- References:**
1. TVA Submittal to NRC Document Control Desk, "Application to Revise Watts Bar Nuclear Plant Unit 1 Updated Final Safety Analysis Report Regarding Changes to Hydrologic Analysis, TAC No. ME8200 (WBN-UFSAR-12-01)," dated July 19, 2012 (ADAMS Accession No. ML122360173).
 2. Letter from NRC to TVA, "Watts Bar Nuclear Station, Unit 1 - Request for Additional Information Related to License Amendment Request to Updated Final Safety Analysis Report Changes Associated with Hydrologic Analysis (TAC No. ME9130)," dated March 1, 2013 (ADAMS Accession No. ML13046A112).
 3. Letter from TVA to NRC, "Response to NRC Health Physics and Human Performance Branch Request for Additional Information Related to License Amendment Request for Watts Bar Nuclear Plant (WBN) Unit 1 Updated Final Safety Analysis Report Changes Associated with Hydrologic Analysis (TAC No. ME9130)," dated April 30, 2013 (ADAMS Accession No. ML13126A295).

By letter dated July 19, 2012 (Reference 1), Tennessee Valley Authority (TVA) submitted a request for an amendment to the Facility Operating License No. NPF-90 for the Watts Bar Nuclear Plant (WBN) Unit 1. The license amendment request (LAR) proposed to revise the WBN Unit 1 Updated Final Safety Analysis Report (UFSAR) to reflect the results from new hydrologic analysis.

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NRR

By letter dated March 1, 2013 (Reference 2), the Nuclear Regulatory Commission (NRC) forwarded a request for additional information (RAI) originating from the NRC Health Physics and Human Performance Branch (AHPB). Response to the March 1, 2013 RAI was provided by letter dated April 30, 2013 (Reference 3).

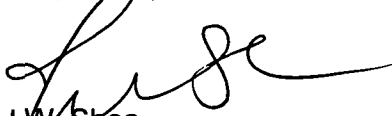
On November 6, 2013, an NRC requested teleconference was held for the purpose of providing clarification to the responses provided in the Reference 3 submittal. Enclosure 1 to this letter provides the supplemental information requested during the November 6, 2013 teleconference.

There are no required changes to the LAR as submitted in the Reference 1 letter as a result of this additional information. Consistent with the standards set forth in 10 CFR 50.92(c), TVA has determined that the additional information, as provided in this letter, does not affect the no significant hazards considerations associated with the proposed amendment previously provided in Reference 1. TVA has further determined that the proposed amendment still qualifies for a categorical exclusion from environmental review pursuant to the provisions of 10 CFR 51.22(c)(9). Additionally, in accordance with 10 CFR 50.91(b)(1), TVA is sending a copy of this letter and the enclosure to the Tennessee Department of Environment and Conservation.

There are no new regulatory commitments included in this submittal. Please address any questions regarding this submittal to Edward D. Schrull at (423) 751-3850.

I declare under penalty of perjury that the foregoing is true and correct. Executed on this 18th day of December 2013.

Respectfully,



J.W. Shea
Vice President, Nuclear Licensing

Enclosure:

Supplemental Response to NRC Health Physics and Human Performance Branch
(AHPB) Request for Additional Information (RAI)

cc (Enclosure):

NRC Regional Administrator - Region II
NRC Senior Resident Inspector – Watts Bar Nuclear Plant, Unit 1
Director, Division of Radiological Health, Tennessee State Department of Environment
and Conservation

ENCLOSURE

SUPPLEMENTAL RESPONSE TO NRC HEALTH PHYSICS AND HUMAN PERFORMANCE BRANCH (AHPB) REQUEST FOR ADDITIONAL INFORMATION (RAI)

Subject: Application to Revise Watts Bar Nuclear Plant Unit 1 Updated Final Safety Analysis Report Regarding Changes to Hydrologic Analysis, (WBN-UFSAR-12-01)

NRC Request:

Were new task analyses performed for the tasks described in the response provided in the April 30, 2013 submittal? If not, why not? If analyses were performed, what was the result of the analyses? AHPB RAI Question 3 follows:

It is not clear from the submittal whether a new task analysis was completed to identify any functional requirements. Please describe any new task analysis results that may provide insight into function allocation.

TVA Response

The TVA response (Reference 3) to AHPB RAI Question 3 stated that AOI-7.01, "Maximum Probable Flood," would be revised to address required actions during Stage 1 and Stage II Flood Warnings. As a result of the AOI-7.01 revision, an analysis of the tasks was performed.

Actions items requiring the revision of AOI-7.01, "Maximum Probable Flood," and the training material associated with AOI-7.01 were developed as part of the Root Cause Analysis (RCA) for PER 642278. AOI-7.01 was revised and the associated action item closed.

Changes incorporated into the AOI-7.01 revision were evaluated in accordance with the Systematic Approach to Training (SAT) process that included a training needs analysis and a job analysis to address the AOI-7.01 tasks. The analyses identified each individual task, assessed each task for difficulty, importance and frequency, and evaluated each task for training selection.

Based on the analyses, it was determined that no adjustment to the operations task list was required. No tasks were changed and no new tasks were added. However, the retraining frequency for the tasks was changed from a once every four year requirement to once every two years.

Maintenance and technical program task lists were not affected by the changes made to AOI-7.01.

The results of the job analysis were reviewed and approved by the site curriculum review committee (CRC).