



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

CNL-18-093

June 22, 2018

10 CFR 50.4

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

Browns Ferry Nuclear Plant, Units 1, 2, and 3  
Renewed Facility Operating License Nos. DPR-33, DPR-52, and DPR-68  
NRC Docket Nos. 50-259, 50-260, and 50-296

Sequoyah Nuclear Plant, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-77 and DPR-79  
NRC Docket Nos. 50-327 and 50-328

Watts Bar Nuclear Plant, Units 1 and 2  
Facility Operating License Nos. NPF-90 and NPF-96  
NRC Docket Nos. 50-390 and 50-391

Subject: **TENNESSEE VALLEY AUTHORITY - HYDROLOGIC ENGINEERING  
CENTER RIVER ANALYSIS SYSTEM (HEC-RAS) PROJECT MILESTONE  
STATUS UPDATE**

Reference: TVA letter to NRC, "Tennessee Valley Authority - Hydrologic Engineering  
Center River Analysis System (HEC-RAS) Project Milestones," dated  
June 22, 2016 (ML16175A518)

By letter dated June 22, 2016, Tennessee Valley Authority (TVA) provided NRC with dates for several project deliverables associated with the ongoing HEC-RAS external flood modeling project (referenced letter). The HEC-RAS external flood modeling project was the subject of an April 4, 2016 public meeting to discuss technical details and a resolution plan for TVA's HEC-RAS external flood modelling issues. In the referenced letter, TVA committed to provide updates on the status of the specific project deliverables on a six-month frequency.

The purpose of this letter is to provide the fourth written update regarding the status of the project milestones consistent with the commitment made in the referenced letter.

There has been no change in milestone status since the update provided by letter dated December 21, 2017 (ML17355A331), however, several milestone dates have been revised.

**TABLE 1  
 PROJECT DELIVERABLE SUBMITTAL MILESTONES**

	<b>Project Deliverable</b>	<b>Submittal Milestone</b>
1	Browns Ferry Mitigating Strategies Assessment (MSA)	Complete
2	Sequoyah MSA	Complete
3	Watts Bar MSA	Complete
4	Watts Bar Focused Evaluation (FE)	April 2019
5	Sequoyah FE	April 2019
6	Browns Ferry FE	April 2019
7	Sequoyah Hydrology License Amendment Request (LAR)	April 2019
8	Watts Bar Hydrology LAR	May 2019

The calculations, analyses, and evaluations being performed in support of Tasks 4 - 8 are fundamentally based on precipitation values in Topical Report TVA-NPG-AWA16, "TVA Overall Basin Probable Maximum Precipitation and Local Intense Precipitation Analysis, Calculation CDQ000000201600041." This topical report was submitted to NRC for review by letter dated September 20, 2016. Resolution of several technical issues from NRC's review is being achieved by revisions to the topical report. Topical Report TVA-NPG-AWA16, Revision 1, was submitted by letter dated June 22, 2018. Accordingly, the milestone dates for Tasks 4 - 8 have been revised to reflect the required rework and TVA's current estimate for completion of the corresponding analyses and evaluations in support of these tasks.

The projected milestones for the submittal of the Sequoyah and Watts Bar Hydrology LARs will be discussed with the NRC Project Manager.

The changes in the milestone dates for Tasks 6, 7, and 8 reflect a change in the completion dates for regulatory commitments made for Browns Ferry, Sequoyah, and Watts Bar to provide revised warning time analyses using the updated precipitation data for each site. These commitments were made for Browns Ferry, Sequoyah, and Watts Bar in their respective Flood Mitigating Strategies Assessments (Tasks 1, 2, and 3) by separate letters dated December 27, 2016 (ML16363A386, ML16363A382, and ML16363A381, respectively).

TVA will provide the fifth status update on these project deliverable submittal milestones by December 31, 2018, consistent with the Commitment made in the referenced letter.

There are no new regulatory commitments contained in this letter.

If additional information is needed regarding this update, please contact Russell Thompson at (423) 751-2567.

Respectfully,



E. K. Henderson  
Director, Nuclear Regulatory Affairs

cc:

- NRR Director - NRC Headquarters
- NRC Regional Administrator - Region II
- NRC Project Manager - Browns Ferry Nuclear Plant
- NRC Project Manager - Sequoyah Nuclear Plant
- NRC Project Manager - Watts Bar Nuclear Plant
- NRC Senior Resident Inspector - Browns Ferry Nuclear Plant
- NRC Senior Resident Inspector - Sequoyah Nuclear Plant
- NRC Senior Resident Inspector - Watts Bar Nuclear Plant