



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

CNL-18-031

February 28, 2018

10 CFR 50.4

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

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

Subject: **Sequoyah Nuclear Plant, Units 1 and 2 – Third Periodic Schedule Update for Revision of Loss-of-Coolant Accident Mass and Energy Release Calculations Related to Containment Integrity Response Analyses**

- References:
1. TVA letter to NRC, "Sequoyah Nuclear Plant, Units 1 and 2 – Application to Modify Ice Condenser Technical Specifications to Address Revisions in Westinghouse Mass and Energy Release Calculation (SQN-TS-12-04)," dated July 3, 2013 (ML13199A281)
 2. TVA letter to NRC, CNL-16-049, "Sequoyah Nuclear Plant, Units 1 and 2 - Withdrawal of Application to Modify Ice Condenser Technical Specifications to Address Revisions in Westinghouse Mass and Energy Release Calculation (SQN-TS-12-04)," dated September 19, 2016 (ML16264A456)
 3. TVA letter to NRC, CNL-17-041, "Sequoyah Nuclear Plant, Units 1 and 2 – Periodic Schedule Update for Revision of Loss-of-Coolant Accident Mass and Energy Release Calculations Related to Containment Integrity Response Analyses," dated March 10, 2017 (ML17069A391)
 4. TVA letter to NRC, CNL-17-103, "Sequoyah Nuclear Plant, Units 1 and 2 – Second Periodic Schedule Update for Revision of Loss-of-Coolant Accident Mass and Energy Release Calculations Related to Containment Integrity Response Analyses," dated August 24, 2017 (ML17257A330)

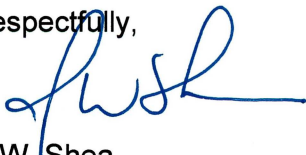
In Reference 1, Tennessee Valley Authority (TVA) submitted license amendment request (LAR) SQN-TS-12-04 for Sequoyah Nuclear Plant (SQN), Units 1 and 2. The proposed changes were to revise SQN Units 1 and 2 Technical Specifications (TSs) 3/4.6.5, "Ice Condenser," to increase the total ice weight from 2,225,880 pounds to 2,540,808 pounds to address a non-conservatism with respect to the required total ice weight.

In Reference 2, TVA withdrew LAR SQN-TS-12-04 and stated a new LAR would be submitted, if necessary, using the revised SQN containment integrity response analyses. Reference 2 also committed to provide periodic schedule updates to the NRC for revising the LOCA mass and energy release calculations and the associated SQN containment integrity response analyses every six months until the non-conservative TS condition is resolved.

In References 3 and 4, TVA provided the first and second six-month updates, respectively. The enclosure to this letter provides the third six-month update. Due to the need for additional sensitivity studies, the completion date for milestone 6 was changed from December 2017 to February 2018. Milestone 6 has been completed.

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

Respectfully,

A handwritten signature in blue ink, appearing to read 'JWS', is written over the word 'Respectfully,'.

J. W. Shea
Vice President, Nuclear Regulatory Affairs & Support Services

Enclosure: Periodic Schedule Update for Revision of Loss-of-Coolant Accident Mass and Energy Release Calculations Related to Containment Integrity Response Analyses

cc: (w/Enclosure)

NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Sequoyah Nuclear Plant
NRC Project Manager - Sequoyah Nuclear Plant

Enclosure

Sequoyah Nuclear Plant, Units 1 and 2 Periodic Schedule Update for Revision of Loss-of-Coolant Accident Mass and Energy Release Calculations Related to Containment Integrity Response Analyses

The table below includes completed and future milestones for the revised loss-of-coolant accident (LOCA) mass and energy release calculations and associated containment integrity response analyses utilizing the new Westinghouse WCOBRA/TRAC model.

Phase 1 Target Milestones		Schedule Date
1	Project Customer Kickoff	June 2016 (Complete)
2	Input Request Letter to TVA	August 2016 (Complete)
3	TVA issuance of analytical input summary (AIS)	September 2016 (Complete)
4	Completion of WCOBRA/TRAC Model	July 2017 (Complete)
5	Issuance of preliminary containment response results	November 2017 (Complete)
6	TVA issuance of Phase 2 guidance on margin allocation	February 2018 (Complete)
Phase 2 Target Milestones		Schedule Date
7	Issuance of draft LOCA M&E and Containment Integrity analysis report	March 2018
8	TVA reviews the draft Containment Integrity analysis report and provides owners review comments	April 2018
9	Issuance of final Containment analysis report plus FSAR, Accident Analysis Parameter Checklist, Technical Specification markups (if necessary)	May 2018