



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

February 19, 2010

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

10 CFR 50.36(c)(5)

Sequoyah Nuclear Plant, Unit 2
Facility Operating License No. DPR-79
NRC Docket No. 50-328

Subject: Unit 2 Cycle 16 – 90 Day Steam Generator Report for Voltage-Based Alternate Repair Criteria and W* Alternate Repair Criteria

In accordance with Sequoyah Nuclear Plant (SQN) Unit 2 Technical Specification (TS) 6.9.1.16.2, SQN is providing the 90 day steam generator (SG) report (Enclosure 1). The report contains results of voltage-based repair criteria that were applied during the Unit 2 Cycle 16 (U2C16) refueling outage SG inspections (end of Cycle 16 operation). The voltage-based repair criteria are for axial outside diameter stress corrosion cracking at tube support plate intersections. The report contains a condition monitoring assessment that demonstrates that the Generic Letter (GL) 95-05, "Voltage-Based Repair Criteria for Westinghouse Steam Generator Tubes Affected by Outside Diameter Stress Corrosion Cracking," acceptance criteria are satisfied for Unit 2 at the end of Cycle 16 and an operational assessment that demonstrates that the GL 95-05 acceptance criteria is expected to continue to be satisfied through Cycle 17.

In accordance with SQN Unit 2 TS 6.9.1.16.4, SQN is providing the 90 day SG report associated with the application of W* during the U2C16 refueling outage (Enclosure 2). The cumulative leak rates as calculated for W* Alternate Repair Criteria, the GL 95-05 alternate repair criteria, and all other sources of primary to secondary accident-induced leakage were within the SQN Unit 2 limit (3.7 gallons per minute per SG).

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There are no commitments contained in this letter. If you have any questions concerning this issue, please contact J. W. Proffitt at (423) 843-6651.

Respectfully,



R. M. Krich
Vice President
Nuclear Licensing

Enclosures:

1. Steam Generator Report Voltage Based Alternate Repair Criteria
Unit 2 Cycle 16 90 Day Report
2. Steam Generator W* Alternate Repair Criteria Unit 2 Cycle 16
90 Day Report

Enclosures
cc (Enclosures):

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