



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379

March 8, 2000

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

Gentlemen:

In the Matter of) Docket No. 50-328
Tennessee Valley Authority)

**SEQUOYAH NUCLEAR PLANT (SQN) UNIT 2 REACTOR VESSEL
SURVEILLANCE CAPSULE Y ANALYSIS SUMMARY REPORT**

Enclosed is the summary report for SQN's Unit 2 reactor vessel surveillance Capsule Y as required by Appendix H to 10 CFR 50 and SQN Technical Specification (TS) Surveillance Requirement 4.4.9.1.2. The enclosed report is provided as Westinghouse Electric Company WCAP-15320, "Analysis of Capsule Y from the Tennessee Valley Authority Sequoyah Unit 2 Reactor Vessel Radiation Surveillance Program."

Surveillance Capsule Y is the fourth capsule to be removed from the Sequoyah Unit 2 reactor vessel. The surveillance capsule received an average fast neutron fluence of 2.14×10^{19} n/cm² after 10.54 effective full power years (EFPY) of plant operation. The surveillance capsule materials exhibit a more than adequate upper-shelf energy level for continued safe plant operation and are expected to maintain an upper-shelf energy of no less than 50 ft-lbs throughout the present licensed life of the vessel (32 EFPY) as required by 10 CFR 50, Appendix G. Based on the results of the analysis of surveillance Capsule Y, no changes to SQN's reactor coolant system pressure and temperature limits and low temperature overpressure protection system (LTOP) setpoints (TS Figures 3.4-2, 3.4-3, and 3.4-4) are required at this time.

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As indicated in the NRC letter to TVA dated October 6, 1999, the results of the analysis of surveillance Capsule Y will be reflected in the revised reactor coolant system pressure and temperature limits and LTOP setpoints. The revised setpoints are being submitted to NRC as part of the SQN pressure temperature report TS change planned for June 2000. The results of the capsule examination will be considered when the TS limits are revised from the present 16 EFPY applicability to the updated 32 EFPY applicability.

Please direct questions concerning this issue to me at (423) 843-7170 or Jim Smith at (423) 843-6672.

Sincerely,



Pedro Salas
Licensing and Industry Affairs Manager

Enclosure

cc (Enclosure):

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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT (SQN)
UNIT 2

ANALYSIS OF CAPSULE Y FROM THE TENNESSEE VALLEY AUTHORITY
SEQUOYAH UNIT 2 REACTOR VESSEL RADIATION SURVEILLANCE PROGRAM

(WCAP-15224)