

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

JUN 08 1989

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

Gentlemen:

In the Matter of
Tennessee Valley Authority

Docket No. 50-327

SEQUOYAH NUCLEAR PLANT (SQN) UNIT 1 - INSERVICE INSPECTION (ISI) OF UNIT 1
STEAM GENERATOR TUBES

Reference: Letter from TVA to NRC dated July 18, 1988, "Sequoyah Nuclear
Plant (SQN) - Unit 1 Steam Generator Tube Plugging"

As required by SQN Unit 1 Technical Specification 4.4.5.5.b, enclosed are the
results of the steam generator tube ISI completed for Unit 1 on July 3, 1988.
The referenced letter provided the tube plugging summary for this inspection.

An ISI was performed on 695 tubes in steam generator 1 and 695 tubes in steam
generator 4. None of the inspected tubes were determined to be defective.
The inspection result category was classified by TVA as C-1. An additional
number of non-ISI examinations were performed, bringing the total number of
tubes examined in steam generators 1 and 4 to approximately 25 percent.

Independent of the ISI, TVA performed a self-imposed eddy current examination
of all rows 1 and 2 tube U-bend regions in all four steam generators utilizing
an optimized probe design (motorized rotating pancake coil probe). These
examinations were performed for the detection of defects in close radius
U-bends. Rotating pancake coil examinations were performed in both steam
generators 2 and 3 at the top of the tubesheet expansion/transition region.
Fifty-seven such examinations were performed in steam generator 2, and 73 in
steam generator 3; no imperfections were discovered.

The enclosure provides a listing of steam generator tubes that have recently
been plugged based on the results of examinations. There were 50 Unit 1,
row 1 tubes that were plugged because of imperfections greater than 40 percent
of the tube wall thickness. An additional 12 tubes were deplugged and
replugged with a permanently installed plug. Also, the steam generator 1,
row 10, column 44 tube was stabilized and preventively plugged based on
identification as being susceptible to rapidly propagating fatigue cracking.

8906150008 890608
PDR ADOCK 05000327
Q PNU

7047
/

U.S. Nuclear Regulatory Commission

JUN 08 1989

No commitments are contained in this submittal. Please direct questions concerning this issue to K. S. Whitaker at (615) 843-7748.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

M. J. Ray Jr.
Manager, Nuclear Licensing
and Regulatory Affairs

cc (Enclosure):

Ms. S. C. Black, Assistant Director
for Projects
TVA Projects Division
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852

Mr. B. A. Wilson, Assistant Director
for Inspection Programs
TVA Projects Division
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Sequoyah Resident Inspector
Sequoyah Nuclear Plant
2600 Igou Ferry Road
Soddy Daisy, Tennessee 37379