

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

MAR 01 1990

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

Gentlemen:

In the Matter of
Tennessee Valley Authority

)
)

Docket Nos. 50-327
50-328

SEQUOYAH NUCLEAR PLANT (SQN) - ESSENTIAL RAW COOLING WATER (ERCW) PUMPHOUSE
FOUNDATION AND ERCW PUMPING STATION ACCESS CELLS

Reference: TVA letter to NRC dated December 28, 1988, "Sequoyah Nuclear
Plant (SQN) - Essential Raw Cooling Water (ERCW) Pumphouse
Foundation and ERCW Pumping Station Access Cells"

This letter provides the final report for the limited exploration program of
the ERCW roadway access cells and requests an extension for the completion of
the pumphouse foundation program.

The enclosure contains TVA Calculation SCG1S299 for the foundation
investigation of ERCW Roadway Access Cells A and B. The conclusions of the
calculation are that the structural integrity of the roadway access cells is
reconfirmed, the cells will perform their intended function under all design
conditions, and no additional investigation is necessary. These conclusions
were reported previously on an informal basis to Tom Cheng and Jack Donohew of
your staff.

Additionally, as discussed in a February 6, 1990, telephone conversation with
Tom Cheng and Jack Donohew, TVA proposes to extend the completion of the
pumphouse foundation program to September 1, 1990. TVA has encountered
difficulties in advancing the drill through the densely packed and/or
partially cemented aggregate zones. The logistics associated with the
location and security of the pump station also significantly increases the
time required to get personnel, materials, and equipment into and out of the
pump station. Finally, cold weather has impacted the drilling and grouting
since insulating or heating the water and grout hoses is not feasible.

To mitigate the effect on the schedule, a second drill rig and operator are
being used for the program, and two shifts are being worked. The drilling and
grouting procedure has also been revised to allow additional flexibility in
the sequence of drilling and grouting.

No voids, cavities, or loose aggregate pockets have been identified in the
pumphouse foundation holes completed to date. The voids reported from earlier
borings have been determined to be filled with densely packed and/or partially
cemented aggregate. Interpretation of the data from the drilling, the

9003090117 900301
PDR ADCK 05000327
PDC

2030
111

U.S. Nuclear Regulatory Commission

MAR 01 1990

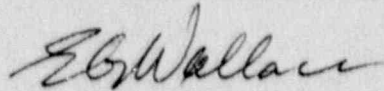
downhole camera, and grout takes shows that the condition of the foundation in the areas of potential concern is better than assumed in the restart evaluation.

As required by TVA's Commitment 3 in Enclosure 1 of the referenced letter, NRC's written concurrence with the schedule extension is requested.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY



E. G. Wallace, Manager
Nuclear Licensing and
Regulatory Affairs

Enclosure

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

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

ENCLOSURE

TVA CALCULATION
SCG1S299