TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 25, 1980

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

SEQUOYAH NUCLEAR PLANT UNIT 2 - SEISMIC QUALIFICATION OF THE AUXILIARY FEEDWATER PUMP RECIRCULATION LINE - NCR SQN SWP 8014 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector M. Thomas on August 27, 1980, in accordance with 10 CFR 50.55(e). Enclosed is our final report.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure
cc: Mr. Victor Stello, Director (Enclosure) ✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

SEQUOYAH NUCLEAR PLANT UNIT 2
SEISMIC QUALIFICATION OF THE AUXILIARY FEEDWATER PUMP RECIRCULATION LINE
NCR SQN SWP 8014
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

The 2-1/2 inch auxiliary feedwater pump recirulation line supports were designed to the Class G requirements (deadload supports only) when they should have been designed to Class C (Seismic Category 1). This problem was discovered during the review of supports required by IE Bulletin 79-14.

This recirculation line is common to both units and is used by the auxiliary feedwater pumps to carry recirculation water back to the condensate storage tanks.

Safety Implication

A break in the auxiliary feedwater pump recirculation line would not prevent the auxiliary feedwater system from performing properly. The safety concern is that other safety-related equipment in the Auxiliary Building may be damaged during a seismic event by spray from a pipe break or the pipe itself falling on safety-related equipment.

Corrective Action

The auxiliary feedwater pump recirculation line is being rigorously analyzed as a Class C line. Supports will be added as necessary to qualify the line as Seismic Category 1. This will be completed before fuel loading of unit 2.