

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1750 Chestnut Street Tower II

September 23, 1980

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

Dear Mr. O'Reilly:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET
NO. 50-327 - FACILITY OPERATING LICENSE DPR-77 - SPECIAL REPORT 80-5

The enclosed special report provides information concerning the fire
detection instrumentation system. This report is submitted in accordance
with Sequoyah unit 1 Technical Specification 3.3.3.8.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. R. Calhoun
Director of Nuclear Power

Enclosure (3)

cc (Enclosure):

Director (3)
Office of Management Information and Program Control
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Director (40)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Bill Lavalles
Nuclear Safety Analysis Center
Palo Alto, California 94303

Mr. W. T. Cottis, NRC Inspector, Sequoyah

A002
S
1/1

S 8009300 451

Special Report 80-5

Sequoyah Nuclear Plant

Unit 1

Fire Detection Instrumentation System

Plant Status

Mode 4

Reactor Pressure 370 psig

Reactor Temperature 300 Degrees F

Event Description and Probable Consequences

On August 4, 1980, during the Q.A. review of Surveillance Instruction 234.1, which was performed on July 14, 1980, detector XS-13-29F was found to have a thermal detector in place of an ionization detector. This detector is located in zone 214 protecting the mechanical equipment room on elevation 732 in the control building.

The thermal detector would have detected a fire in this location once temperatures reached detector set point. Other ionization type detectors in the area would have operated as designed thereby minimizing any effect the thermal detector may have had.

Cause Description and Corrective Action

The wrong type detector was installed by construction. Maintenance request 085904 was initiated and the proper detector type was installed. The system was declared operable on August 5, 1980.