

TENNESSEE VALLEY AUTHORITY

Sequoyah Nuclear Plant
Post Office Box 2000
Soddy Daisy, Tennessee 37379

May 4, 1984

U.S. Nuclear Regulatory Commission
Document Control Desk
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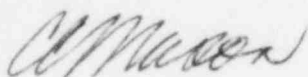
Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 2 - DOCKET NO.
50-328 - FACILITY OPERATING LICENSE DPR-79 - SPECIAL REPORT 84-02

The enclosed special report provides details concerning the inoperability of the flame detector near reactor coolant pump number four in excess of fourteen (14) days. This report is submitted in accordance with Sequoyah Unit 2 Technical Specifications 3.3.3.8 and 6.9.2.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



C. C. Mason
Power Plant Superintendent

Enclosure
cc (Enclosure):

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SEQUOYAH NUCLEAR PLANT

SPECIAL REPORT 84-02

UNIT 2

Event Description

At 2150C on April 12, 1984, fire detector zone 370 was found in the alarm state while performing surveillance instruction (SI) 234.7, "Technical Specification Fire Detectors Reactor Building Unit 2." Zone 370, with its associated flame detector 201, is one of the number four reactor coolant pump fire detectors. The temperature detector is still operable; therefore, an alarm can still be received and actuated. The flame detector has been inoperable greater than fourteen (14) days which keeps the unit in technical specification action statement 3.3.3.8.b.

Cause

The cause of the event is the failure of the flame detector which can be attributed to normal end of life for this component. The field cables were lifted to verify that the alarm was from the cable and not from a defective module in the control panel. This type of detector has been subject to false actuations in the past.

Corrective Actions

Due to numerous past false actuations, the flame detector will be replaced with a thermal detector at the next mode 5 (0% power) outage. Radiation levels prohibit replacement during normal power operation. The temperature detector presently installed will give warning of a fire by itself until the new detector is installed. These two detectors are backups for each other, 1/2 alarm, 2/2 actuate fire suppression. Presently, the one detector will alarm and actuate.