Spurious			NRC Form 366 (9-83)  LICENSEE EVENT REPORT (LER)															U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88												
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ABSTRACT (Limit to 1400 graces, i.e., approximately fifteen single-space typewritten lines) (16)

YES (If yes, complete EXPECTED SUBMISSION DATE)

On August 7, 1987, at 1745, the unit 1 reactor protection system circuit protector 1Al spuriously opened. This caused an unplanned actuation of the standby gas treatment and the control room emergency ventilation systems, isolation of the common refueling zone, isolation of the unit 1 reactor zone, a unit 1 half scram, and an isolation of the primary containment purge and ventilation system. The circuit protector was reset and all systems were returned to normal operation or standby readiness by 1755. Investigation, troubleshooting, and recalibration did not reveal a cause for the circuit protector trip. Further corrective action is not planned.

X NO

SUPPLEMENTAL REPORT EXPECTED (14)

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DAY

EXPECTED

YEAR

NRC Form 366A

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED CMB NO. 3150-0104 EXPIRES: 8/31/88

FACILITY NAME (1)	DO	DOCKET NUMBER (2)										LER NUMBER (6)										PAGE (3)				
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Units 1, 2, and 3 were in refueling outages. Unit 1 and common ventilation systems were affected.

On August 7, 1987, at 1745, the power to the reactor protection system (RPS) (IEEE identifier EK) bus A was interrupted when circuit protector 1A1 opened. This caused the following actuations:

- 1. Unit 1 RPS half scram channel A (EK)
- 2. Unit 1 Group 6 isolation (purging and venting) (VB)
- 3. Unit 1 Reactor Building Ventilation Isolation (VA)
- 4. Refueling Zone Ventilation Isolation (VG)
- 5. Standby Gas Treatment trains A, B, and C Initiation (BH)
- 6. Control Room Emergency Ventilation train A and B initiation (VI)

The other primary containment group isolations that normally occur on a half scram signal were already isolated and the systems out of service. The lAl circuit protector was reset and the affected systems were returned to operation or standby readiness by 1755.

The RPS circuit protectors are located between the motor generator (MG) sets and the RPS bus. These circuit protectors monitor the MG set output for undervoltage, overvoltage, or underfrequency conditions. If any of these conditions are sensed, a contact opens and deenergizes the RPS bus.

The 1Al circuit protector was inspected, and the calibration of the three relays was checked. No problems were identified. A review of operational events did not identify any condition that could have actuated the circuit protector. This event has been attributed to a spurious actuation of the circuit protector, and no further corrective action is planned.

The event did not affect the safe operation of the plant. After the circuit protector opened, all systems performed as designed and placed the plant in a conservative operating configuration. If this event had occurred during power operation the results would have been the same, and plant operation could have safely continued.

Previous Events - BFRO-50-259/86002

Commitments - None

USNRC-DS N81 SEP -9 A 9-41

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## TENNESSEE VALLEY AUTHORITY

Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, Alabama 35602

September 4, 1987

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

Dear Sir:

TENNESSEE VALLFV AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 - DOCKET NO. 50-259 - 'ACT', ITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE REPORT BFRO-50-250/87018

The enclosed report provides details concerning the unplanned engineering safety feature actuation caused by a spurious actuation of the reactor protection system ciccuit protector. This report is submitted in accordance with 10 CFR 50.73 (a)(2)(iv).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. G. Walker Plant Manager

Browns Ferry Nuclear Plant

Enclosures cc (Enclosures):

Regional Administration
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
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Atlanta, Georgia 30303

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NRC Resident Inspector, Browns Ferry Nuclear Plant