NRC Form 368 (9-83)	CENSEE EVENT	REPORT (LER)		UCLEAR REGULATORY COMMISSION APPROVED OM8 NO. 3150-0104 EXPIRES 8/31/85
FACILITY NAME (1)			DOCKET NUMBER	(2) PAGE (3)
Browns Ferry Unit 1			0 5 0 0	0 2 5 9 1 OF 0 3
Unplanned Standby Gas Treatment Ac	tuation Due t	o Personnel Erro	r	
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20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)	(A)	below and in Taxt. NRC Form 366A)
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ABSTRACT (Limit to 1400 operate) a personnel to the control of standby gas treatment (SBGT returned to service following is stopped and placed in standby The engineer directing the mail personnel to change the state train's control circuit. The operate) state by the craft pertrain actuation upon supply breerroneous assumption concerning. The Shift Operations Supervisor possible engineered safety fear engineer directed downstreated to the train question is located downstreatfected by the action. Maintenance engineers will receive information on the will receive information on the breaker maintenance procession on the breaker maintenance engineers will receive information on the breaker main engineers will receive information on the	 with all the bactuated whe maintenance. readiness. ntenance had of a latching relay was man rsonnel, as i eaker closure g operation o r (SOS) was n ture actuation elay state. he SBGT train te control over eam of the put 	ile the system with the train was a series of the train was a series of the train was a series of the train the engineer of this relay. The engineer of this relay. The engineer of this relay. The solution of the solution of the train actuation on these even of pull-to-lock of the series of the series of the train t	vas being immediate ructed th MCX) in e actuate by allow made an the even intenance the main all-to-loc on. The acts and v	ly he craft the (or ing ht of a h ck relay was not
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FACILITY NAME (1)	DOCKET NUMBER (2)	-	LER NUMBER (6)				PAGE (3)					
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TEXT (If more space is required, use additional NRC Form 386A's) (17)

DESCRIPTION OF EVENT

Browns Ferry units 1, 2, and 3 were defueled during this event. The standby gas treatment (SBGT) system (EIIS code BH) is common to all three units.

On June 4, 1988, at 2015 hours, the C train of SBGT actuated while the system was being returned to service following maintenance. The train was immediately stopped and placed in standby readiness.

The engineer directing the maintenance had erroneously instructed the craft personnel to change the state of a latching relay (labeled MCX) in the train's control circuit. The relay was manually put in the actuate (or operate) state by the craft personnel, as instructed, thereby allowing train actuation upon supply breaker closure.

The Shift Operations Supervisor (SOS) was notified prior to the event of a possible engineered safety feature actuation because the maintenance engineers were unsure of the relay state. The SOS directed the main control room hand switch for the SBGT train be placed in pull-to-lock believing that to be an absolute control over train actuation. The relay in question is located downstream of the pull-to-lock contacts and was not affected by the action.

CAUSE OF EVENT

The SBGT train actuated because the MCX relay was latched in the actuate state when the power supply breaker was closed. The engineer directing the maintenance had erroneously instructed the craft personnel to place the relay in the actuate state. The engineer made an erroneous assumption concerning operation of this relay.

CORRECTIVE ACTION

Maintenance engineers will receive information on these events. Operators will receive information on these events and pull-to-lock logic. The breaker maintenance procedure and the SBGT system operating instruction will be revised to add more detail defining the states of the MCX relay. Additional information will also be provided in the operating instruction concerning the puli-to-lock logic.

ANALYSIS OF JVENT

SBGT is designed to limit the release of radioactivity from secondary containment to the environment following an accident by providing a

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				U.S. NUCLEAR REGULATORY COMMISS: APPROVED OMB NO 3150-0104 EXPIRES 8/31/85							
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controlled, filtered, and elevated release path. There are no other systems which perform this same function.

The actuation of this SBGT train was a successful completion of its design function. It placed the SBGT train in a concervative configuration and did not adversely affect other plant systems, plant operations, or safe shutdown capabilities. Neither the plant's response nor the safety implications would be significantly altered should this occur during power operations.

The train was stopped and returned to standby readiness immediately.

PREVIOUS SIMILAR EVENTS - BFRO-50-259/88009

COMMITMENTS - Maintenance engineers will receive information on these events.

- Operators will receive information on these events and pull-to-lock logic.
- The breaker maintenance procedure and the SBGT system operating instuction will be revised to add more detail defining the states of the MCX relay. Additional information will also be provided in the operating instruction concerning the pull-to-lock logic.

TENNESSEE VALLEY AUTHORITY Browns Ferry Nuclear Plant Post Office Box 2000 Decatur, Alabama 35602

JUL 02 1988

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

Dear Sir:

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TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 - DOCKET NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE REPORT BFR0-50-259/88017

The enclosed report provides details concerning the unplanned standby gas treatment train actuation due to personnel error. This report is submitted in accordance with 10 CFR 50.73 (a)(2)(iv).

Very truly yours,

TENNESAEE VALLEY AUTHORITY

Om

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 101 Marietta Street, Suite 2900 Atlanta, Georgia 30303

INPO Records Center Suite 1500 1100 Circle 75 Parkway Atlanta, Georgia 30339

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NRC Resident Inspector, Browns Ferry Nuclear Plant