NRC Form 9-83)	366						u	CENSE	E EVE	NT RE	PORT	(LER)		APPRON	R REGULATO				
ACILITY	NAME	11		-									DOCKET NUMBER	(2)		PA	GE (3)		
Browns Ferry - Unit 3										0 15 10 10	0 0 2 9 6 1 OF								
TITLE (4)		u	a1	Se	oram	of Un	it 3												
EVE	NT DAT	E (6)				LER NUMBER							A FACILITIES INVOLVED (8)						
MONTH	IONTH DAY YEAR		EAR	YE	AR	SEQUENTIAL NUMBER	REVISION NUMBER	N MONTH	DAY	DAY YEAR		FACILITY N	AMES	DOCK	OCKET NUMBER(S)				
												<u> </u>	1	0   5   0   0   0   1					
1	0 7	8	5	8	5	0 0 2	- 00	0 0 2	0 5	8 5					0 15 10 10 10 1 1				
	RATING		T	THI	S REPOR	T IS SUBMITTE	D PURSUANT	TO THE R	EQUIREM	ENTS OF 10	0 CFR §: 1	Check one or mor	e of the fallowing) (1	1)			_		
MODE (0) N				20.402	20.402(b)			20.405(c)			50.73(a)(2)(iv)			73.71(b)					
POWER		-	20.405(a)(1)(i)			-	50.36(c)(1)			50.73(a)(2)(v)			73.71(e)						
(10) 1 10 10			-	20.405(a)(1)(ii) 20.405(a)(1)(iii) X 20.405(a)(1)(iii) X			50.36(e)(2)			-	50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
							-	-	50.73(a)(2)(i)			50.73(#)(2)(viii)(A)			300 A/				
			$\vdash$	-	(m)(1)()v) (m)(1)(v)	-	50,73(a)(2)(iii) 50,73(a)(2)(iii)			50.73(a)(2)(viii)(8) 50.73(a)(2)(x)									
		*****		-	1 20.400	(#2137197		-		FOR THIS	LER (12)			-					
NAME													1	TELEP	PHONE NUMB	EA			
A	lan V	N .	Go	rde	on								21015	71	2   9  -	215	1317		
						COMPLETE	ONE LINE FO	OR EACH C	OMPONEN	T FAILURE	DESCRIBE	D IN THIS REPO							
CAUSE	SYSTEN	TEM COM		ONE	NT	TURER REPORTAS		E		CAUSE	SYSTEM	COMPONENT	MANUFAC	REA	ORTABLE				
	1		1	1		1.1.1					1	1.1.1							
	1		1	1		111						111							
						SUPPLEM	ENTAL REPOR	AT EXPECT	ED (14)				EXPECT	ED.	MONTH	DAY	YEAR		
YES IIT YES, complete EXPECTED SUBMISSION DATE						-	XNO				SUBMISS	SUBMISSION DATE (15)		1	1				
A br pers to s	eake sonne	r 1 t	(BH ina	(R) adv	sup erte	ntly all Temper	oower t Lowed t rature	o an : he por contro	instr wer c ol va	able d lve (1	on a t CCV) 1	emperatu ogic fro	l when mai ire transm om several er (RCW) t	itte	er (TT) nels				

recirculation pump motor-generator (MG) set oil coolers caused the MG sets to trip. By the time power and RCW flow was restored, the temperature difference between the dome and bottom head drain was in excess of that permitted by the technical specification for restarting the recirculation pumps so the reactor was manually scrammed.

> IE22 YI

8502130542 850205 PDR ADDCK 05000296 S PDR

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EXPIRES. 8/31/85

FACILITY NAME (1)			DOCKET NUMBER (2)		LE	R NUMBER (6	PAGE (3)				
				YEAR	YEAR SEQUENTIAL NUMBER			REVISION		TT	1.1
Browns Ferry -	Unit	3	0 15 10 10 10 21 916	8 815	-	01012	-	010	9	ZOF	0] 2

During normal operation, unit 1 was operating at 97 percent, unit 2 was in a refueling outage, and unit 3 was operating at 100 percent. Only unit 3 was affected by this event.

While performing maintenance on a temperature transmitter to reactor feedwater, the power cable accidentally shorted to ground, tripping a breaker that supplies several instrument panels. The loss of power to the panels controlling raw cooling water flow to recirculation pump MG set "A" and "B" oil coolers caused the electrical to pressure (E/P) converters to give a false signal to the temperature controllers. As a result, the temperature control valves went full closed. Additionally, the raw cooling water temperature control valves for reactor building closed cooling water heat exchangers "A" and "B" closed due to a loss of power to their panel. The licensed unit operator began venting the drywell after increased temperature and pressure were noted. Ultimately, both recirculation pump MG sets tripped on high oil temperature. At this point, the licensed unit operator inserted control rods to reduce the load.

By the time the breaker was reset and the raw cooling water flow reestablished, the temperature difference between the dome and bottom head drain was in excess of that permitted by the technical specification for restarting the recirculation pumps. When it became apparent that this temperature difference could not be restored within limits of operating conditions and that manipulating the rod pattern to an acceptable sequence for controlled shutdown would be very difficult without recirculation pumps, the decision was made to manually scram the reactor.

The breaker trip should have caused an alarm in the control room, which would have shortened the response time. The alarm circuit for the breaker was checked, and a bad card was found. Appropriate maintenance people will be briefed on the cause of this event. No safety limits were exceeded, and no further corrective action is planned.

Responsible Plant Section - NA

Previous Similar Events - None

TENNESSEE VALLEY AUTHORITY

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

February 5, 1985

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

Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 3 -DOCKET NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE OCCURRENCE REPORT BFR0-50-296/85002

The enclosed report provides details concerning the manual scram of unit 3. This report is submitted in accordance with 10 CFR 50.73 (a)(2)(i).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

in

G. T. Øones Plant Manager Browns Ferry Nuclear Plant

Enclosures cc (Enclosures): Regional Administrator U. S. Nuclear Regulatory Commission Office of Inspection and Enforcement Region II 101 Marietta Street, Suite 2900 Atlanta, Georgia 30303

NRC Resident Inspector, BFN

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

IE22 1/1