NRC FORM 366 (12-81) 10 CFR 50

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

APPROVED BY OMB 3150-0011

CONTROL BLOCK: ① (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01	LICENSEE CODE	②	LICENSE NUMBER	③	LICENSE TYPE	④	CAT	⑤
	A L B R F 1		0 0 - 0 0 0 0 0 - 0 0		4 1 1 1 1			

CON'T 01	REPORT SOURCE	⑥	DOCKET NUMBER	⑦	EVENT DATE	⑧	REPORT DATE	⑨
	L		0 5 0 0 0 2 5 9		0 2 0 5 8 3		0 2 1 8 8 3	

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES ⑩

02 Following a reactor scram on 2/5/83, MSRV 1-1-22 was manually opened and failed
03 to close. The unit was brought to cold shutdown. The pilot cartridge was
04 replaced. On 2/8/83 during startup from cold shutdown, MSRV 1-1-22 apparently
05 opened at 178 psig. The reactor was placed in cold shutdown. There was no
06 effect on public health or safety. The remaining MSRVs were operable.
07
08

09	SYSTEM CODE	⑪	CAUSE CODE	⑫	CAUSE SUBCODE	⑬	COMPONENT CODE	⑭	COMP. SUBCODE	⑮	VALVE SUBCODE	⑯
	C C		E		X		V A L V E X		X		B	

⑰ LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 3	—	0 0 6	/	0 1	T	—	0

ACTION TAKEN ⑱	FUTURE ACTION ⑲	EFFECT ON PLANT ⑳	SHUTDOWN METHOD ㉑	HOURS ㉒	ATTACHMENT SUBMITTED ㉓	NPRD-4 FORM SUB. ㉔	PRIME COMP. SUPPLIER ㉕	COMPONENT MANUFACTURER ㉖
C	X	A	A	0 1 2 2	Y	Y	N	T 0 2 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS ㉗

10 Investigation revealed excessive pilot valve leakage and the bracket for the pilot
11 inlet tube had broken and the tube was lodged in the MSRV seat, preventing closure.
12 The Target Rock Model 67F relief valve was replaced. During the next refueling
13 outage for each unit, the inlet tube bracket for each MSRV will be inspected
14 and repaired if necessary.

15	FACILITY STATUS ㉘	% POWER ㉙	OTHER STATUS ㉚	METHOD OF DISCOVERY ㉛	DISCOVERY DESCRIPTION ㉜
	E	1 0 0	NA	A	Operator Observation

16	ACTIVITY RELEASED ㉝	CONTENT OF RELEASE ㉞	AMOUNT OF ACTIVITY ㉟	LOCATION OF RELEASE ㊱
	Z	Z	NA	NA

17	PERSONNEL EXPOSURES NUMBER ㊲	TYPE ㊳	DESCRIPTION ㊴
	0 0 0	Z	NA

18	PERSONNEL INJURIES NUMBER ㊵	DESCRIPTION ㊶
	0 0 0	NA

19	LOSS OF OR DAMAGE TO FACILITY TYPE ㊷	DESCRIPTION ㊸
	Z	

8302280369 830218
PDR ADOCK 05000259
S PDR

20	PUBLICITY ISSUED ㊹	DESCRIPTION ㊺	NRC USE ONLY
	Y	Press release to media	

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Tennessee Valley Authority
Browns Ferry Nuclear Plant

Form BF 17
BF 15.2
2/12/82

LER SUPPLEMENTAL INFORMATION

BFRO-50-259 /83006 Technical Specification Involved 3.6.G

Reported Under Technical Specification 6.7.2.a.(9) * Date Due NRC 2/21/83

Event Narrative:

On February 5, 1983, unit 1 was operating at 100% power, unit 2 was in a refueling outage, and unit 3 was operating at 100% power. Only unit 1 was affected by this event. While testing the main turbine overspeed trip, the reactor scrammed. MSRV 1-1-22 was manually opened to control reactor pressure and failed to close. The reactor was brought to cold shutdown. Based on past experiences, the problem was attributed to a malfunction of the pilot valve, which was replaced. MSRV 1-1-22 was manually actuated with no reactor pressure and appeared to have closed. During startup of the unit on 2/8/83, MSRV 1-1-22 opened at 178 psig and failed to close (before the reactor reached 250 psig, where the valve was to be tested). The reactor was placed in cold shutdown to investigate. The Target Rock Model 67F, serial no. 1070, was replaced with serial no. 1076.

An investigation revealed that the pilot inlet tube mounting bracket had broken, permitting the inlet tube to get under the seat of the MSRV. During the next refueling outages, these brackets will be inspected, the bracket welds will be liquid penetrant inspected and any necessary repairs will be made.

On both of these events a Notification of Unusual Event (Radiological Emergency Plan) was initiated. For information regarding related events, BFRO 50-259/83007 is being submitted.

* Previous Similar Events:

None with the two stage valves now installed. Prior to installation of the two stage valves, there are five events of relief valves opening and failing to reseat, which are as follows: 259/77013, 260/78003, 260/78004, 296/78008, and 296/78021. The root cause of these events is unrelated.

Retention: Period - Lifetime; Responsibility - Document Control Supervisor

*Revision: JRP