

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Browns Ferry - Unit 3										DOCKET NUMBER (2) 0 5 0 0 0 2 9 6 1 OF 0 1 2										PAGE (3) 1 OF 0 1 2							
TITLE (4) Excessive Primary Containment Isolation Valve Closure Time																											
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES				DOCKET NUMBER(S)														
0	4	3	0	8	5	8	5	0	1	3	0	0	0	5	2	9	8	5	0	5	0	0	0				
OPERATING MODE (9) N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																									
POWER LEVEL (10) 0 0 10		20.402(b)				20.406(c)				50.73(a)(2)(iv)				73.71(b)													
		20.406(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)													
		20.406(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)													
		20.406(a)(1)(iii)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(A)																	
		20.406(a)(1)(iv)				50.73(a)(2)(iii)				50.73(a)(2)(viii)(B)																	
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)																	
LICENSEE CONTACT FOR THIS LER (12)																											
NAME Alan W. Gordon														TELEPHONE NUMBER 2 10 15 7 12 19 1 - 1 2 15 13 17													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs																	
SUPPLEMENTAL REPORT EXPECTED (14)														EXPECTED SUBMISSION DATE (15)				MONTH	DAY	YEAR							
YES (If yes, complete EXPECTED SUBMISSION DATE)														X NO													

ABSTRACT (Limit to 140 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Four primary containment isolation butterfly valves failed their closure time surveillance test. This surveillance was being performed because of discovered timing test methodology deficiencies for the surveillance. The technical specification maximum operating time is 2.5 seconds. The maximum closure time recorded was 10 seconds for a suppression chamber purge inlet valve (FCV 64-19). Maintenance was performed on this valve, and it later passed the test. The remaining three valves timed at 4.5, 3.3, and 3.0 seconds. The four valves will be adjusted, as required, and the timing checked below 2.5 seconds prior to startup of unit 3.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Browns Ferry - Unit 3	0 5 0 0 0 2 9 6	8 5	- 0 1 3	- 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Unit 1 was in cold shutdown, unit 2 was in a refueling outage, and unit 3 was in cold shutdown. Only unit 3 was affected by this event.

During performance of Surveillance Instruction (SI) 4.7.D.1a-1, primary containment isolation valve closure time test, on April 30, 1985, four butterfly valves did not meet the acceptance criteria of 2.5 seconds or less. The isolation valves and the closure times recorded are as follows: drywell/suppression chamber purge inlet (FCV 64-17), 4.5 seconds; suppression chamber purge inlet (FCV 64-19), 10 seconds; drywell main exhaust isolation (FCVs 64-29 and 30) 3.3 seconds and 3.0 seconds, respectively.

With the exception of FCV 64-19, the root cause for the slow operability of these valves was a revised timing procedure. Previously the valves for this surveillance test were timed in the control room from "green light illuminated" to "red light extinguished." Required timing now is from "handswitch movement" to "full closed" indication on control room indicating lights. This timing interval was added to provide an accurate description of the Final Safety Analysis Report (FSAR) requirements consistent with American Society of Mechanical Engineers, Section XI. The reason for the excessive time required for closure of FCV 64-19 could not be clearly identified. The air solenoid piping was removed from the valve for inspection. Following reassembly, the test was repeated and this valve was closed in 2.1 seconds.

The four subject valves will be repaired, as necessary, and the timing adjusted to 2.5 seconds or less prior to declaring them operable. The same valves on units 1 and 2 will be similarly tested and repaired, as necessary, prior to restart of these units.

Closure of these valves serves to limit radioactive releases from the containment during pipe break accidents and also to prevent pressurization of secondary containment. These valves are open for containment purge and inerting operations several hours after startups and before shutdowns. Containment purge valves are also in series which further minimizes the safety significance of the valve timing deficiencies.

Responsible Plant Section - N/A

Previous Events - None

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

May 29, 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 BFRO-50-296/85013

The enclosed report provides details concerning the excessive primary  
containment isolation valve closure time. This report is submitted in  
accordance with 10 CFR 50.73(a)(2)(v).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*G. T. Jones*

G. T. Jones  
Plant Manager  
Browns Ferry Nuclear Plant

BCM:AWG:BDL

cc (Enclosures):

Regional Administrator  
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

NRC Resident Inspector, BFN

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