Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

MAR 17 1993

O. J. "Ike" Zeringue
Vice President, Browns Ferry Nuclear Plant

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

Gentlemen:

In the Matter of	)	Docket Nos. 50-259
Tennessee Valley Authority	)	50-260
		50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - SECONDARY CONTAINMENT LEAK RATE (SCLR) TEST REPORT

This letter provides the periodic special report on the integrated leak rate test of Secondary Containment that is required by Technical Specification 6.9.2.8. On January 30, 1993, the SCLR test was performed. The specific parameters of the test are provided in Enclosure 1. The overall leak rate was 10,011 cubic feet per minute (cfm). This leak rate was below the allowable limit of 12,000 cfm specified by Surveillance Requirement 4.7.C.1.a.

There are no commitments contained in this letter. If you have any questions, please contact G. D. Pierce, Interim Manager of Site Licensing, at (205) 729-7566.

Sincerely,

O. J. Zeringue

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A017

Enclosure
cc (Enclosure):
NRC Resident Inspector
Browns Ferry Nuclear Plant
Route 12, Box 637
Athens, Alabama 35611

Mr. Thierry M. Ross, Project Manager
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852

Mr. B. A. Wilson, Project Chief
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

ENCLOSURE
BROWNS FERRY NUCLEAR PLANT (BFN)
SECONDARY CONTAINMENT LEAK RATE TEST

1.0 Report

Browns Ferry Nuclear Plant Secondary Containment Leak Rate Test Report, per Technical Specification 6.9.2.8.

2.0 Purpose

This report describes the results and analysis of the test data taken during leak rate testing of the Browns Ferry Nuclear Plant secondary containment. This report satisfies the report requirement of Technical Specification 6.9.2.8.

3.0 Procedure

Surveillance Instruction (SI) 0-SI-4.7.C-1, Combined Zone Secondary Containment Integrity Test, outlines the procedures followed during the secondary containment leak rate testing.

4.0 Data

The SI was performed in a combined zone configuration. The following is the data measured during the test:

1)	Standby Gas Treatment System flowrate:	10,011 cfm
	Refueling Zone	5,796 cfm
	Reactor Zones	4,215 cfm
2)	Reactor Building differential pressures:	
	Unit 1 Reactor Zone	- 0.27" H_2O
	Unit 2 Reactor Zone	- 0.30" H_2O
	Unit 3 Reactor Zone	- 0.28" H_2O
	Unit 1 Refuel Zone	- 0.26" H_2O
	Unit 2 Refuel Zone	- 0.26" H_2O
	Unit 3 Refuel Zone	- 0.25" H_2O
3)	Wind Speed:	4.2 mph
4)	Wind Direction	18.4°
5)	Reactor Building air temperature	72.2°F
6)	Outside air temperature	24.8°F

ENCLOSURE
BROWNS FERRY NUCLEAR PLANT (BFN)
SECONDARY CONTAINMENT LEAK RATE TEST
(CONTINUED)

5.0 Analysis and Interpretation

The combined zone secondary containment (all three zones and the common refueling zone) was leak rate tested on January 30, 1993 using 0-SI-4.7.C-1. The purpone of this test was to confirm secondary containment operability prior to the Unit 2 Cycle 6 refueling. 0-SI-4.7.C-1 demonstrates secondary containment's capability to maintain ¼ inch water vacuum under calm wind (< 5 mph) conditions with a system leakage rate of not more than 12,000 cfm. The test showed an inleakage rate of 10,011 cfm while maintaining a vacuum of greater than ¼ inches of water, which met the acceptance criteria specified by Surveillance Requirement 4.7.C.1.a.