



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

APR 28 1993

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 April 21, 1993, the SCLR test was performed. The specific parameters of the test are provided in Enclosure 1. The overall leak rate was 9,102 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 telephone me at (205) 729-2636.

Sincerely,

Pedro Salas
Manager of Site Licensing

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U. S. Nuclear Regulatory Commission

APR 28 1993

Enclosure

cc (Enclosure):

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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 flow rate: 9,102 cfm

Refueling Zone	5,571 cfm
Reactor Zones	3,531 cfm

2) Reactor Building differential pressures:

Unit 1 Reactor Zone	- 0.34" H ₂ O
Unit 2 Reactor Zone	- 0.34" H ₂ O
Unit 3 Reactor Zone	- 0.36" H ₂ O
Unit 1 Refuel Zone	- 0.33" H ₂ O
Unit 2 Refuel Zone	- 0.32" H ₂ O
Unit 3 Refuel Zone	

- * - The Unit 3 Refuel Zone Reactor Building differential pressure instrument could not be read due to the presence of lead shielding. The Units 1 and 2 Refuel Zone Reactor Building differential pressure instruments were considered adequate for the performance of this test.

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

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4.0 Data (Continued)

3) Wind Speed:	10.8 mph
4) Wind Direction	327.7°
5) Reactor Building air temperature	78°F
6) Outside air temperature	44.9°F

5.0 Analysis and Interpretation

The combined zone secondary containment (all three zones and the common refueling zone) was leak rate tested on April 21, 1993 using O-SI-4.7.C-1. The purpose of this test was to confirm secondary containment operability prior to the Unit 2 Cycle 6 refueling. O-SI-4.7.C-1 demonstrates secondary containment's capability to maintain $\frac{1}{4}$ 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 9,102 cfm while maintaining a vacuum of greater than 0.283 inches of water (correction added for the wind speed in excess of 5 mph), which met the acceptance criteria specified by Surveillance Requirement 4.7.C.1.a.