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

June 17, 1996

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) - UNITS 1, 2, AND 3 - SECONDARY CONTAINMENT LEAK RATE (SCLR) TEST RESULTS

This letter provides the periodic special report for the BFN SCLR test required by Technical Specification 6.9.2.8. The SCLR test was performed on March 22, 1996, in preparation for Unit 2 refueling. The overall leak rate was 10,532 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. and was acceptable. The specific parameters of the test are provided in the enclosure.

There are no commitments contained in this letter. If you have any questions regarding this report, please contact me at (205) 729-2636.

Sincerely,

Pedro Salas
Manager of Site Licensing

Enclosure
cc: See page 2

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Enclosure
cc (Enclosure):
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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNITS 1, 2, AND 3

SECONDARY CONTAINMENT LEAK RATE (SCLR) TEST REPORT

1.0 Report

BFN SCLR Test Report, per Technical Specification (TS) 6.9.2.8.

2.0 Purpose

This report describes the results and analysis of the test data taken during the March 22, 1996, leak rate testing of the BFN secondary containment. This report satisfies the reporting requirements of TS 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 SCLR test.

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: 10,532 cubic feet per minute (cfm)

Refueling Zone	6,021 cfm
Reactor Zones	4,511 cfm

2. Reactor Building Differential Pressures:

Unit 1 Reactor Zone	- 0.310" H_2O
Unit 2 Reactor Zone	- 0.320" H_2O
Unit 3 Reactor Zone	- 0.315" H_2O
Unit 1 Refuel Zone	- 0.285" H_2O
Unit 2 Refuel Zone	- 0.295" H_2O
Unit 3 Refuel Zone	- 0.300" H_2O

3. Wind Speed: 3.86 miles per hour (mph)

4. Wind Direction: 343° azimuth

5. Reactor Building Air Temperature 69.1°F

6. Outside Air Temperature 51°F

5.0 Analysis and Interpretation

The combined zone secondary containment (all three zones and the common refueling zone) was leak rate tested on March 22, 1996, using 0-SI-4.7.C-1. The purpose of this test was to confirm secondary containment operability prior to Unit 2 Cycle 8 refueling. The SI results demonstrated secondary containment's capability to maintain ¼ (0.25) inch water vacuum under calm wind (< 5 mph) conditions with a system leakage rate of not more than 12,000 cfm. The test results showed an inleakage rate of 10,532 cfm while maintaining a vacuum of greater than 0.285 inches of water, which met the acceptance criteria (≤ 12,000 cfm) specified by BFN TS Surveillance Requirement 4.7.C.1.a.