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SUBJECT: Forwards 90 day rept on secondary containment leak rate testing. All three reactor zones & common refuel zone tested on 870504. Secondary containment capability of maintaining less than .25 inches H20 w/less than 12,000 CFM inleakage.

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Gentlemen:

In the Matter of the Application of	)	Docket Nos. 50-259
Tennessee Valley Authority	)	50-260
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BROWNS FERRY NUCLEAR PLANT (BFN) - REACTOR BUILDING CONTAINMENT LEAK RATE TEST 90-DAY REPORT

Enclosed is the report on secondary containment leak rate testing for the Browns Ferry Nuclear Plant. The secondary containment for all three reactor zones and the common refuel zone was leak rate tested on May 4, 1987. This report is submitted pursuant to Browns Ferry technical specifications section 6.7.3.C.1.a. If you have any questions, please call G. W. Morris at (205) 729-3583.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Domer
for R. Gridley, Director
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Enclosure
cc: See page 2

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

1.0 Browns Ferry Nuclear Plant (BFN) Secondary Containment Leak Rate Test Report per technical specification 6.7.3.C.1.a.

2.0 Purpose

This report describes the results and analysis of the test data taken during leak rate testing of the BFN secondary containment system. The test was performed to verify the status of the secondary containment before commencement of outage activities conducted in and around the fuel pool.

3.0 Procedure

Surveillance Instruction (SI) 4.7.C outlines the procedure followed during secondary containment leak rate testing.

4.0 Data

The SI was performed concurrently on all zones. SI 4.7.C data sheets list the following test data:

1. Standby Gas Greatment System flowrate:	9986 CFM
2. Reactor Building differential pressures	
Unit 1 Reactor Zone	.29 in H_2O
Unit 2 Reactor Zone	.31 in H_2O
Unit 3 Reactor Zone	.29 in H_2O
Unit 1 Refuel Zone	.29 in H_2O
Unit 2 Refuel Zone	.30 in H_2O
Unit 2 Refuel Zone	.29 in H_2O
3. Wind Speed	3.0 MPH
4. Wind Direction	332°

5. Analysis and Interpretation

Technical specification 3.7.C.3. requires that secondary containment integrity be maintained in the refueling zone when performing operations over spent fuel pools. SI 4.7.C demonstrates secondary containment integrity by assessing the capability of the secondary containment system to maintain 1/4" water vacuum under calm wind ($\leq$ 5 MPH) conditions with a system leakage rate of not more than 12,000 CFM (specified in BFN technical specification 4.7.C.1.a).

The secondary containment (all three reactor zones and the common refuel zone) was leak-rate tested per BFN SI 4.7.C on May 4, 1987. The test was satisfactorily performed. The results proved the secondary containment capability of maintaining less than -.25 inches H_2O with less than 12,000 CFM inleakage.