

ENCLOSURE

SECONDARY CONTAINMENT LEAK RATE TEST
PERFORMED OCTOBER 26, 1987
BROWNS FERRY NUCLEAR PLANT (BFN)

1.0 Browns Ferry Nuclear Plant Unit 2 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 Browns Ferry Nuclear Plant Unit 2 secondary containment, pursuant to Technical Specification 4.7.C.1.a.

3.0 Procedure

Surveillance Instruction (SI) 4.7.C outlines the procedures 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 treatment system flowrate: 9,617 CFM
2. Reactor building differential pressures

Unit 1 Reactor Zone	.32 in. H ₂ O
Unit 2 Reactor Zone	.30 in. H ₂ O
Unit 3 Reactor Zone	.26 in. H ₂ O
Unit 1 Refuel Zone	.30 in. H ₂ O
Unit 2 Refuel Zone	.31 in. H ₂ O
Unit 3 Refuel Zone	.28 in. H ₂ O
3. Wind Speed 3.7 MPH
4. Wind Direction 175°

5.0 Analysis and Interpretation

SI 4.7.C demonstrates secondary containment capability to maintain 1/4-inch water vacuum under calm wind (< 5 MPH) conditions with a system leakage rate of not more than 12,000 CFM. The secondary containment (all three reactor zones and the common refuel zone) was leak rate tested on October 26, 1987. The test showed an inleakage of 9,617 CFM while maintaining a vacuum of .26 inches water, which meets the acceptance criteria.

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