

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

34 OCT 15 P 1 1984

U.S. Nuclear Regulatory Commission
Region II
ATTN: James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

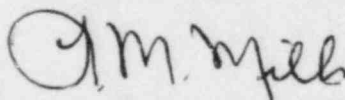
BROWNS FERRY NUCLEAR PLANT UNIT 2 - REACTOR BUILDING CONTAINMENT LEAK
RATE TEST - 90-DAY REPORT

Enclosed is the report on secondary containment leak rate testing for the
Browns Ferry Nuclear Plant unit 2. This report is submitted pursuant to
Browns Ferry Technical Specifications Section 6.7.3.C.1.a. If you have
any questions, please call Jim Domer at FTS 858-2725.

To the best of my knowledge, I declare the statements contained
herein are complete and true.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc (Enclosure):

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. R. J. Clark
Browns Ferry Project Manager
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
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ENCLOSURE
SECONDARY CONTAINMENT LEAK RATE TEST
BROWNS FERRY NUCLEAR PLANT
UNIT 2

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 surveillance instruction was performed concurrently on all zones. The attached surveillance instruction data sheets list the following test data:

1. Standby gas treatment system flowrate:	9,509	CFM
2. Reactor building differential pressures		
Unit 1 Reactor Zone	> - .50	in H ₂ O
Unit 2 Reactor Zone	- .36	in H ₂ O
Unit 3 Reactor Zone	- .365	in H ₂ O
Unit 1 Refuel Zone	- .37	in H ₂ O
Unit 2 Refuel Zone	- .37	in H ₂ O
Unit 3 Refuel Zone	- .37	in H ₂ O
3. Wind Speed	4.5	MPH
4. Wind Direction	191 ^o	

5.0 Analysis and Interpretation

Technical Specification 4.7.C.1.a requires that secondary containment capability to maintain 1/4" water vacuum under calm (≤ 5 MPH) wind conditions with a total system inleakage of not more than 12,000 CFM shall be demonstrated at each refueling outage prior to refueling. The technical specification allowable inleakage value of 12,000 CFM has been conservatively reduced by 800 CFM. This reduction was administratively imposed because of an Engineering Design identified nonconformance concerning the seismic qualifications of auxiliary boiler penetrations into secondary containment. The secondary containment (all three reactor zones and the common refuel zone) was leak rate tested on September 12, 1984. The test was satisfactorily performed. The results proved the secondary containment capability of maintaining less than -0.25 in H_2O with less than 11,200 CFM of inleakage.