

REACTOR CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST
SUPPLEMENTAL REPORT
WATTS BAR NUCLEAR PLANT UNIT 1

SEPTEMBER 27, 1994

Docket No. 50-390

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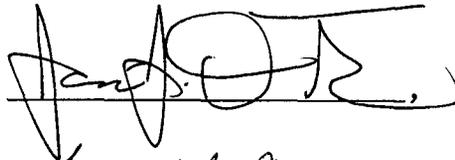
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Reactor Containment Building
Integrated Leak Rate Test
Supplemental Report
Watts Bar Nuclear Plant Unit 1

September 27, 1994

Test Report

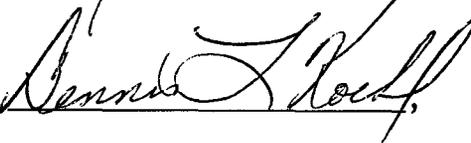
Prepared by:



Reviewed by:



Approved by:



Date Approved:

9/28/94

Submitted to:

The United States Nuclear Regulatory Commission
Pursuant to
Facility Operating License

This supplemental report includes the test results of local leak rate tests which were not performed prior to the June 22-29, 1994, Unit 1 CILRT performance. These tests were successfully completed prior to September 30, 1994. Completion of this action fulfills our commitment to complete the local leak rate tests necessary to ensure that all contributions to the overall containment leakage rate are identified and measured, as stated in our CILRT test report submitted to you September 19, 1994. Results of these tests met the acceptance criteria necessary to insure that no additional contributions to the overall containment air leakage exist, other than those included in the previously submitted CILRT report.

The local leak rate test program was completed prior to the performance of the Unit 1 CILRT with the exception of the water inventory tests required for the Containment Spray and RHR Spray isolation valves (penetrations X-48A, X-48B, X-49A, and X-49B), and the Hydrogen Analyzer System loop test outside the H₂ Analyzer System isolation valves (penetrations X-92A, X-92B, X-99, and X-100).

The water inventory tests on the Containment Spray and RHR Spray isolation valves (penetrations X-48A, X-48B, X-49A, and X-49B) were completed on September 24, 1994. Results of these tests met the acceptance criteria of less than 0.024 cfh for Containment Spray and less than 0.032 cfh for RHR Spray necessary to ensure that water inventory limits will be maintained.

The train A and train B H₂ Analyzer System loop checks were completed September 22, 1994. Results of these tests met the acceptance criteria of no detectable leakage in the systems outside the containment isolation valves. Achieving this criteria is necessary to allow the systems to be placed in service post-accident.

The final results of these local leak rate tests are summarized below.

Summary of Local Leak Rate Tests Conducted After
Performance of the June 22-29, 1994, Unit 1 CILRT

Notes: FCV = Flow Control Valve

Water Inventory Tests

Penetration No.	Name	As Left	Date
X-48A	1-FCV-72-39	0.0000 cfh	09/23/94
X-48B	1-FCV-72-2	0.0000 cfh	09/23/94
X-49A	1-FCV-72-40	0.0000 cfh	09/24/94
X-49B	1-FCV-72-41	0.0000 cfh	09/24/94

Closed Systems Outside Containment

Penetration No.	Name	As Left Leakage	Date
X-99/100	H ₂ Analyzer (A train)	0.0000 scfh	09/22/94
X-92A/92B	H ₂ Analyzer (B train)	0.0000 scfh	09/22/94