



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

June 22, 1989

Docket

Docket No. 50-313

Mr. T. Gene Campbell
Vice President Nuclear
Arkansas Power and Light Company
P. O. Box 551
Little Rock, Arkansas 72203

SUBJECT: TYPOGRAPHICAL CORRECTION TO AMENDMENT NO. 121 TO FACILITY OPERATING
LICENSE DPR-51 FOR ARKANSAS NUCLEAR ONE, UNIT 1.

Subsequent to issuing Amendment No. 121 to the Arkansas Nuclear One, Unit 1
Operating License, your staff noted that a typographical error had been
introduced on revised page 79 of the Technical Specifications (TS).
Specifically TS 4.4.1.1.2.b was missing a bracket and TS 4.4.1.1.2.c was
missing a square root sign.

Please replace page 79 of the TS with the enclosed corrected page 79. The
corresponding overleaf page is provided to maintain document completeness.

Sincerely,

Craig Harbuck

Craig Harbuck, Project Manager
Project Directorate IV
Division of Reactor Projects III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
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Enclosure:
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Mr. T. Gene Campbell
Arkansas Power & Light Company

Arkansas Nuclear One, Unit 1

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Ms. Greta Dicus, Director
Division of Environmental Health
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Arkansas Department of Health
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- Where
- (L_a) Design Basis Accident Leakage Rate at Pressure P_a
 - (L_t) Maximum Allowable Test Leakage Rate at Reduced Test Pressure P_t Under Test Condition
 - (L_{ao}) Maximum allowable operational leakage rate at pressure P_a
 - (L_{to}) Maximum allowable leakage rate at pressure P_t
 - (L_{am}) Initial Measured Leakage Rate at Pressure P_a
 - (L_{tm}) Initial Measured Leakage Rate at Pressure P_t
 - (P_a) Peak Test Pressure of 59 psig
 - (P_t) Reduced Test Pressure of 30 psig

4.4.1.1.3 Conduct of Tests

- a. Leakage rate tests should not be started until essential temperature equilibrium has been attained. Containment test conditions should stabilize for a period of about four hours prior to the start of a leakage rate test.
- b. The leakage rate test period shall extend to 24 hours of retained internal pressure. If it can be demonstrated to the satisfaction of those responsible for the acceptance of the containment structure that the leakage rate can be accurately determined during a shorter test period, the agreed upon shorter period may be used.
- c. Test accuracy shall be verified by supplementary means, such as measuring the quantity of air required to return to the starting point or by imposing a known leak rate to demonstrate the validity of measurements.
- d. Closure of reactor building isolation valves for the purpose of the test shall be accomplished by the means provided for normal operation of the valves without preliminary exercised or adjustment.

4.4.1.1.4 Frequency of Test

After the initial preoperational leakage rate test, a set of three integrated leak rate tests shall be performed at approximately equal intervals during each 10 year service period, with the third test of each set coinciding with the end of each 10-year service period. The test may coincide with the plant inservice inspection shut down periods.

4.4 REACTOR BUILDING

4.4.1 Reactor Building Leakage Tests

Applicability

Applies to the reactor building.

Objective

To verify that leakage from the reactor building is maintained within allowable limits.

Specification

4.4.1.1 Integrated Leakage Rate Tests

4.4.1.1.1 Design Pressure Leakage Rate

The maximum allowable integrated leakage rate, L_a , from the reactor building at the 59 psig design pressure, P_d , shall not exceed 0.20 weight percent of the building atmosphere at that pressure per 24 hours.

4.4.1.1.2 Testing at Reduced Pressure

The periodic integrated leak rate test may be performed at a test pressure, P_t , of 30 psig provided the resultant leakage rate, L_t , does not exceed a pre-established fraction of L_a determined as follows:

- a. Prior to reactor operation the initial value of the integrated leakage rate of the reactor building shall be measured at design pressure and at the reduced pressure to be used in the periodic integrated leakage rate tests. The leakage rates thus measured shall be identified as L_{am} and L_{tm} respectively.
- b. L_t shall not exceed $L_a \left[\frac{L_{tm}}{L_{am}} \right]$ for values of $\frac{L_{tm}}{L_{am}}$ below 0.7
- c. L_t shall not exceed $L_a \sqrt{\frac{P_t}{P_a}}$ for values of $\frac{L_{tm}}{L_{am}}$ above 0.7
- d. If L_{tm}/L_{am} is less than 0.3, the initial integrated test results shall be subject to review by the NRC to establish an acceptable value of L_t .