

SNUPPS

Standardized Nuclear Unit  
Power Plant System

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Nicholas A. Petrick  
Executive Director

September 14, 1981

SLNRC 81-102 FILE: 0541  
SUBJ: Containment Leakage Testing

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

Docket Nos. STN 50-482, STN 50-483, and STN 50-486

Reference: SLNRC 81-93, September 9, 1981, same subject

Dear Mr. Denton:

The referenced letter forwarded FSAR changes for the Containment Systems Branch. Per discussions with Dr. Gordon Edison, additional changes are required. The attached FSAR page replaces pp. 6.2.6-4 and -4a of the reference.

Very truly yours,

*Nicholas A. Petrick*  
Nicholas A. Petrick

RLS/jdk

Enclosure: FSAR page 6.2.6-4

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repaired or adjusted components taken at the test pressure equal to the calculated peak containment pressure following a LOCA, Pa and, 3) the adjusted integrated leakage rate (and its statistical uncertainty) meets the acceptance criteria. The adjusted leakage rate is determined by adding the postrepair Type C leakage rates for the penetration to the upper 95 percent confidence level of the measured containment leakage rate.

#### 6.2.6.2 Containment Penetration Leakage Rate Tests (Type B Tests)

Each of the following containment penetrations will be tested with a Type B test.

- a. Personnel access hatches (refer to Section 3.9.2)
- b. Equipment hatch (refer to Section 3.8.2)
- c. Fuel transfer tube (refer to Section 3.8.2)
- d. Electrical penetrations (refer to Section 8.3)

These penetrations are provided with double seal closures and connections to allow for pressurization between the seals. Each penetration is designed to withstand the calculated peak containment pressure while maintaining its seal. Equipment and personnel hatches have provisions for test clamps to ensure seating of the internal seal during testing.

The test pressure for Type B tests is the calculated peak pressure for the containment, Pa. The combined leakage rate for all Type B and C tests must be less than 0.6 L<sub>a</sub> (maximum allowable leakage rate). The individual leakage rates and testing performed on the Type B penetration are described in Chapter 16.0.

The test equipment utilized to perform the Type B tests is the same equipment used for Type C tests. The test equipment is described in Section 6.2.6.3. The test procedure will be the same as the one used for Type C tests.

Type B tests are performed in accordance with Appendix J to 10 CFR 50, with the following addition and exception:

- a. An additional test method may be used. This method measures the air flow rate to maintain the test volume at a constant pressure.
- b. The equipment and personnel hatches will be tested at 6-month intervals. However, when containment integrity is required, the door seals for the air locks which have been opened are tested after each opening, except when the air lock is being used for multiple entries, then at least once every 72 hours. In any event, the air locks will be tested prior to exceeding a cold shutdown condition.