

3.7 CONTAINMENT SYSTEMS

- 2.a. Primary containment integrity shall be maintained at all times when the reactor is critical or when the reactor water temperature is above 212°F and fuel is in the reactor vessel except while performing "open vessel" physics tests at power levels not to exceed 5MW(t).
- b. Primary containment integrity is confirmed if the maximum allowable integrated leakage rate, L_a , does not exceed the equivalent of 2 percent of the primary containment volume per 24 hours at the 49.6 psig design basis accident pressure, P_a .
- c. If N_2 makeup to the primary containment averaged over 24 hours (corrected for pressure, temperature, and venting operations) exceeds 549 SCFH, it must be reduced to 549 SCFH within 8 hours or the reactor shall be placed in hot shutdown within the next 16 hours.

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2. Integrated Leak Rate Testing

Primary containment nitrogen consumption shall be monitored once each 8-hour shift to determine the average daily nitrogen consumption for the last 24 hours. Excessive leakage is indicated by a N_2 consumption rate of 2% of the primary containment free volume per 24 hours (corrected for drywell temperature, pressure, and venting operations) at 49.6 psig. Corrected to normal drywell operating pressure of 1.5 psig, this value is 549SCFH. If this value is exceeded, the action specified in 3.7.A.2.C shall be taken.

The containment leakage rates shall be demonstrated at the following test schedule and shall be determined in conformance with the criteria specified in Appendix J to 10 CFR 50 using the methods and provisions of ANSI N45.4(1972).

- a. Three type A tests (overall integrated containment leakage rate) shall be conducted at 40±10-month intervals during shutdown at either P_a , 49.6 psig, or at P_c , 25 psig, during each 10-year plant inservice inspection.
- b. If any periodic type A test fails to meet either $0.75 L_a$ or $0.75 L_c$ the test schedule for subsequent type A tests shall be reviewed and approved by the Commission.

If two consecutive type A tests fail to meet either $0.75 L_a$ or $0.75 L_c$, a type A test shall be performed at least every 18 months until two consecutive