5.5 Programs and Manuals (continued)

5.5.6 Primary Containment Leakage Rate Testing Program

This program implements the leakage rate testing of the containment as required by 10 CFR 50.54(o) and 10 CFR 50, Appendix J, Option B, as modified by approved exemptions. This program shall be in accordance with the guidelines contained in Regulatory Guide 1.163, "Performance-Based Containment Leak-Test Program," dated September 1995, as modified by the following exceptions:

- NEI 94-01-1995, Section 9.2.3: The first Type A test performed after the March 7, 1995 Type A test shall be performed no later than March 7, 2010.

- Type C testing of valves not isolable from the containment free air space may be accomplished by pressurization in the reverse direction, provided that testing in this manner provides equivalent or more conservative results than testing in the accident direction. If potential atmospheric leakage paths (e.g., valve stem packing) are not subjected to test pressure, the portions of the valve not exposed to test pressure shall be subjected to leakage rate measurement during regularly scheduled Type A testing. A list of these valves, the leakage rate measurement method, and the acceptance criteria, shall be contained in the Program.

a.   The peak primary containment internal pressure for the design basis loss of coolant accident, P_a, is 45 psig.

b.   The maximum allowable primary containment leakage rate, L_a, at P_a, shall be 1.5% of containment air weight per day.

c.   The leakage rate acceptance criteria are:

1.   Primary containment leakage rate acceptance criteria is $\leq 1.0\ L_a$. During plant startup following testing in accordance with this program, the leakage rate acceptance criteria are $\leq 0.60\ L_a$ for the Type B and Type C tests, and $\leq 0.75\ L_a$ for the Type A tests.

2.   Air lock testing acceptance criteria are:

(a)   Overall air lock leakage rate is $\leq 0.05\ L_a$ when tested at $\geq P_a$; and

(b)   For each door seal, leakage rate is ≤ 120 scfd when tested at $\geq P_a$.

(continued)