

detection tests. Sufficient data and analysis shall be included to show that a stabilized leak rate was attained and to identify all significant required correction factors such as those associated with humidity and barometric pressure, and all significant errors such as those associated with instrumentation sensitivities and data scatter. This report shall be titled Reactor Containment Building Integrated Leak Rate Test and shall be submitted to the AEC within 3 months of the test.

4.4.1.2 Local Leakage Rate Tests

4.4.1.2.1 Scope of Testing

a. The local leak rate shall be measured for the following components using a type "B" test as defined in 10 CFR 50, Appendix J.

1. Personnel air lock door gaskets and other seals
2. Emergency air lock door gaskets and other seals
3. The resilient seals on the equipment hatch and fuel transfer tube blind flanges
4. Blind flanges on penetration No. 414 (L.R. Pressure Sensing)
5. Reactor Building Purge valves (AH-V1A, B, C, and D)
6. Blind flanges on both ends of pipe through the following penetrations:
 - 6.1 No. 104 (S/G drains)
 - 6.2 No. 105 (S/G cleaning)
 - 6.3 No. 106 (S/G cleaning)
 - 6.4 No. 210 (S/G annulus drains)
 - 6.5 No. 211 (S/G annulus drains)
 - 6.6 No. 241 (Incore Inst. Transfer Tube)
 - 6.7 No. 415 (L.R. Test Bleed Line)
 - 6.8 No. 416 (L.R. Test Bleed Line)
 - 6.9 No. 417 (L.R. Test Supply Line)

b. The local leak rate shall be measured for the following isolation valves using a type "C" test as defined in 10 CFR 50, Appendix J.

1. CA-V1, 2, 3, 13 (Primary Sampling)
CA-V189, 192 (Reclaimed Water)
CA-V4A, 4B, 5A, 5B (Secondary Sampling)
2. CF-V2A, 2B, 12A, 12B, 19A, 19B, 20A, 20B (Core Flood)
3. CM-V1, 2, 3, 4 (Containment Monitoring)
4. DH-V64, 69 (Decay Heat)
5. HP-V1, 6 (Hydrogen Purge)

6. HR-2A, 2B, 4A, 4B, 22A, 22B, 23A, 23B (Hydrogen Recombiner)
7. IA-V6, 20 (Instrument Air)
8. IC-V2, 3, 4, 6, 16, 18 (Intermediate Cooling)
9. LR-V4, 5, 6, 10 (Leak Rate Test)
10. MU-V2A, 2B, 3, 18, 20, 25, 26, 116 (Make up and Purification)
11. NI-V27 (Nitrogen)
12. NS-V4, 11, 15, 35 (Nuclear Services Closed Cooling)
13. RB-V2A, 7 (R.B. Industrial Cooling System)
14. SA-V2, 3 (Service Air)
15. SF-V23 (Spent Fuel Cooling)
16. WDG-V3, 4 (Waste Gas Header)
17. WDL-V303, 304 (Waste Disposal Liquid)
18. WDL-V534, 535 (R.B. Sump Gravity Drains)

4.4.1.2.2 Conduct of Tests

- a. Local leak rate tests shall be performed pneumatically at a pressure of not less than P_a , with the following exception: The access hatch door seal test shall normally be performed at 10 psig and the test every six months specified in 4.4.1.2.5.b shall be performed at a pressure not less than P_a .
- b. Acceptable methods of testing are halogen gas detection, pressure decay, pneumatic flow measurement or equivalent.
- c. The pressure for a valve test shall be applied in the same direction as that when the valve would be required to perform its safety function unless it can be determined that the direction will provide equivalent or more conservative results.
- d. Valves to be tested shall be closed by normal operation and without any preliminary exercising or adjustments.

4.4.1.2.3 Acceptance Criteria

The combined leakage from all items listed in 4.4.1.2.1, shall not exceed $.6 L_a$ (the maximum allowable leakage rate at P_a).