

4.18 INTEGRITY OF SYSTEMS OUTSIDE CONTAINMENT LIKELY TO CONTAIN RADIOACTIVE FLUIDS

Applicability

Applies to those testable portions of systems outside of containment that could contain highly radioactive fluids during a serious transient or accident condition.

Objective

To reduce highly radioactive leakage from systems outside containment during or following a serious transient or accident to as-low-as-practical levels.

Specifications

- 4.18.1 A leak test shall be performed on all systems listed in Table 4.18.1 during each refueling outage. This inspection shall include but not be limited to system components where leakages are normally expected and collected (such as: valve stems, pump seals, gaskets, packing, etc.). The leakages shall be reduced to as low as practical. Test pressure shall be not less than system pressure under accident conditions.

TABLE 4.18.1

1. Low Pressure Safety Injection/Shutdown Cooling.
2. Containment Spray.
3. High Pressure Safety Injection.
4. Redundant High Pressure Safety Injection.
5. Containment Air Sampling.
6. Engineering Safeguards Room Sump Return to Containment.
7. Primary Coolant Sampling System. (NSSS)

Basis

Performance of a leak test on each system will adequately provide a means of determining operational leakage. The leakages of the systems shall be reduced to as low as practical levels to reduce exposure and contamination levels during an accident condition. Checking the integrity of systems outside containment likely to contain radioactive material is required by NUREG-0578.

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