

SURVEILLANCE REQUIREMENTS

4.9 LIQUID RADIOACTIVE WASTE STORAGE

FUEL HANDLING BUILDING/AUXILIARY BUILDING AIR CLEANUP SYSTEMS

4.9.12 The fuel handling building air cleanup system and the auxiliary building air cleanup system shall be demonstrated OPERABLE:

- a. At least once per 31 days by initiating, from the control room, flow through the HEPA filters and charcoal adsorbers and verifying that each filter train operates for at least 15 minutes.
- b. Initially and at least once per 18 months of (1) after any structural maintenance on the HEPA filter or charcoal adsorber housings, or (2) following painting, fire or chemical release in any ventilation zone communicating with the system by:
 1. Verifying a flow rate of 23,000 cfm \pm 10% for each fuel handling building exhaust filter train when tested in accordance with ANSI N510-1975.
 2. Verifying a flow rate of 36,000 cfm \pm 10% for each auxiliary building exhaust filter train when tested in accordance with ANSI N510-1975.
- c. At least once per 18 months by:
 1. Verifying an exhaust flow rate of at least 36,000 cfm for the fuel handling building air cleanup system with two fuel handling building supply fans and two fuel handling building exhaust fans in operation.
 2. Verifying an exhaust flow rate of at least 65,000 cfm for the auxiliary building air cleanup system with two auxiliary building supply fans and two auxiliary building exhaust fans in operation.
 3. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks of each fuel handling building filter train is less than 6 inches Water Gauge while it operates at a flow rate of 23,000 cfm \pm 10%.
 4. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks of each auxiliary building filter train is less than 6 inches Water Gauge while it operates at a flow rate of 36,000 cfm \pm 10%.

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5. Verifying that the fuel handling building air cleanup system maintains the fuel handling building at a negative pressure of greater than or equal to 1/8 inch Water Gauge relative to the outside atmosphere during system operation.
 6. Verifying that the auxiliary building air cleanup system maintains the auxiliary building at a negative pressure of greater than or equal to 1/8 inch Water Gauge relative to the outside atmosphere during system operation.
 7. Verifying that each fuel handling building filter train satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a and C.5.c of Regulatory Guide 1.52, Revision 2, March 1978, and the system flow rate is 23,000 cfm \pm 10%.
 8. Verifying that each auxiliary building filter train satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a and C.5.c of Regulatory Guide 1.52, Revision 2, March 1978, and the system flow rate is 36,000 cfm \pm 10%.
- d. After each complete or partial replacement of a HEPA filter bank in a fuel handling building filter train by verifying that the HEPA filter banks in this filter train remove greater than or equal to 99.95% of the DOP when they are tested in-place in accordance with ANSI N510-1975 while operating the filter train at a flow rate of 23,000 cfm \pm 10%.
 - e. After each complete or partial replacement of a HEPA filter bank in an auxiliary building filter train by verifying that the HEPA filter banks in this filter train remove greater than or equal to 99.95% of the DOP when they are tested in-place in accordance with ANSI N510-1975 while operating the filter train at a flow rate of 36,000 cfm \pm 10%.