

**SURVEILLANCE REQUIREMENTS**

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4.7.7.1 Each control room emergency ventilation system shall be demonstrated OPERABLE:

- a. At least once per 31 days on a STAGGERED TEST BASIS by initiating, from the control room, flow through the HEPA filters and charcoal adsorbers and verifying that the system operates for at least 10 hours with the heaters on.
- b. At least once per 18 months or (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 that the cleanup system satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a, C.5.c and C.5.d of Regulatory Guide 1.52, Revision 2, March 1978, and the system flow rate is 1000 cfm  $\pm$  10% (except as shown in Specifications 4.7.7.1e. and f.).
  2. Verifying, within 31 days after removal, that a laboratory test of a sample of the charcoal adsorber, when obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, shows the methyl iodide penetration less than or equal to 2.5% when tested in accordance with ASTM D 3803-1989 at a temperature of 30°C (86°F) and a relative humidity of 70%.
  3. Verifying a system flow rate of 1000 cfm  $\pm$  10% during system operation when tested in accordance with ANSI N510-1975.
- c. Within 31 days of completing 720 hours of charcoal adsorber operation, verify that a laboratory test of a sample of the charcoal adsorber, when obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, shows the methyl iodide penetration less than or equal to 2.5% when tested in accordance with ASTM D 3803-1989 at a temperature of 30°C (86°F) and a relative humidity of 70%.
- d. At least once per 18 months by:
  1. Verifying that the pressure drop across the demister filter, HEPA filter and charcoal adsorber is < 4 inches Water Gauge while operating the filter train at a flow rate of 1000 cfm  $\pm$  10%.

**SURVEILLANCE REQUIREMENTS (Continued)**

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2. Verifying that the normal air supply and exhaust are automatically shutdown on a Safety Injection Actuation Test Signal.
  3. Verifying that the system maintains the control room at a positive pressure of  $\geq 0.04$  inch W. G. relative to the outside atmosphere at a system flow rate of 1000 cfm  $\pm 10\%$ .
  - e. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove  $\geq 99\%$  of the DOP when they are tested in-place in accordance with ANSI N510-1975 while operating the system at a flow rate of 1000 cfm  $\pm 10\%$ .
  - f. After each complete or partial replacement of a charcoal adsorber bank by verifying that that charcoal adsorbers remove  $\geq 99\%$  of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ANSI N510-1975 while operating the system at a flow rate of 1000 cfm  $\pm 10\%$ .
- 4.7.7.2 The bottled air pressurization system shall be demonstrated OPERABLE:
- a. At least once per 31 days by verifying that the system contains a minimum of 102 bottles of air (shared with Unit 2) each pressurized to at least 2300 psig.
  - b. At least once per 18 months by verifying that the system will supply at least 340 cfm of air to maintain the control room at a positive pressure of  $\geq 0.05$  inch W.G. relative to the outside atmosphere for at least 60 minutes.
- 4.7.7.3 Each control room air-conditioning system shall be demonstrated OPERABLE at least once per 12 hours by verifying that the control room air temperature is  $\leq 120^\circ\text{F}$ .

## PLANT SYSTEMS

### SURVEILLANCE REQUIREMENTS

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- 4.7.7.1 Each control room emergency ventilation system shall be demonstrated OPERABLE:
- a. At least once per 31 days on a STAGGERED TEST BASIS by initiating, from the control room, flow through the HEPA filters and charcoal adsorbers and verifying that the system operates for at least 10 hours with the heaters on.
  - b. At least once per 18 months or (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 that the cleanup system satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a, C.5.c and C.5.d of Regulatory Guide 1.52, Revision 2, March 1978, and the system flow rate is 1000 cfm  $\pm$  10% (except as shown in Specifications 4.7.7.1e. and f.).
    2. Verifying, within 31 days after removal, that a laboratory test of a sample of the charcoal adsorber, when obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, shows the methyl iodide penetration less than or equal to 2.5% when tested in accordance with ASTM D 3803-1989 at a temperature of 30°C (86°F) and a relative humidity of 70%.
    3. Verifying a system flow rate of 1000 cfm  $\pm$  10% during system operation when tested in accordance with ANSI N510-1975.
  - c. Within 31 days of completing 720 hours of charcoal adsorber operation, verify that a laboratory test of a sample of the charcoal adsorber, when obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, shows the methyl iodide penetration less than or equal to 2.5% when tested in accordance with ASTM D 3803-1989 at a temperature of 30°C (86°F) and a relative humidity of 70%.
  - d. At least once per 18 months by:
    1. Verifying that the pressure drop across the demister filter, HEPA filter and charcoal adsorber is < 4 inches Water Gauge while operating the filter train at a flow rate of 1000 cfm  $\pm$  10%.

**SURVEILLANCE REQUIREMENTS (Continued)**

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2. Verifying that the normal air supply and exhaust are automatically shutdown on a Safety Injection Actuation Test Signal.
  3. Verifying that the system maintains the control room at a positive pressure of greater than or equal to 0.04 inch W. G. relative to the outside atmosphere at a system flow rate of 1000 cfm  $\pm$  10%.
    - e. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove greater than or equal to 99% of the DOP when they are tested in-place in accordance with ANSI N510-1975 while operating the system at a flow rate of 1000 cfm  $\pm$  10%.
    - f. After each complete or partial replacement of a charcoal adsorber bank by verifying that that charcoal adsorbers remove greater than or equal to 99% of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ANSI N510-1975 while operating the system at a flow rate of 1000 cfm  $\pm$  10%.
- 4.7.7.2 The bottled air pressurization system shall be demonstrated OPERABLE:
- a. At least once per 31 days by verifying that the system contains a minimum of 102 bottles of air (shared with Unit 1) each pressurized to at least 2300 psig.
  - b. At least once per 18 months by verifying that the system will supply at least 340 cfm of air to maintain the control room at a positive pressure of greater than or equal to 0.05 inch W.G. relative to the outside atmosphere for at least 60 minutes.
- 4.7.7.3 Each control room air-conditioning system shall be demonstrated OPERABLE at least once per 12 hours by verifying that the control room air temperature is less than or equal to 120°F.