§ 23.1105 Induction system ducts that supply air to a cabin pressurization system must be suitably constructed of material that will not produce hazardous quantities of toxic gases or isolated to prevent hazardous quantities of toxic gases from entering the cabin during a powerplant fire.

§ 23.1105 Induction system screens.  
If induction system screens are used—  
(a) Each screen must be upstream of the carburetor or fuel injection system.  
(b) No screen may be in any part of the induction system that is the only passage through which air can reach the engine, unless—  
(1) The available preheat is at least 100 °F.; and  
(2) The screen can be deiced by heated air;  
(c) No screen may be deiced by alcohol alone; and  
(d) It must be impossible for fuel to strike any screen.

§ 23.1107 Induction system filters.  
If an air filter is used to protect the engine against foreign material particles in the induction air supply—  
(a) Each air filter must be capable of withstanding the effects of temperature extremes, rain, fuel, oil, and solvents to which it is expected to be exposed in service and maintenance; and  
(b) Each air filter shall have a design feature to prevent material separated from the filter media from interfering with proper fuel metering operation.

§ 23.1109 Turbocharger bleed air system.  
The following applies to turbocharged bleed air systems used for cabin pressurization:  
(a) The cabin air system may not be subject to hazardous contamination following any probable failure of the turbocharger or its lubrication system.  
(b) The turbocharger supply air must be taken from a source where it cannot be contaminated by harmful or hazardous gases or vapors following any probable failure or malfunction of the engine exhaust, hydraulic, fuel, or oil system.

§ 23.1111 Turbine engine bleed air system.  
For turbine engine bleed air systems, the following apply:  
(a) No hazard may result if duct rupture or failure occurs anywhere between the engine port and the airplane unit served by the bleed air.  
(b) The effect on airplane and engine performance of using maximum bleed air must be established.  
(c) Hazardous contamination of cabin air systems may not result from failures of the engine lubricating system.

§ 23.1121 General.  
For powerplant and auxiliary power unit installations, the following apply—  
(a) Each exhaust system must ensure safe disposal of exhaust gases without fire hazard or carbon monoxide contamination in any personnel compartment.  
(b) Each exhaust system part with a surface hot enough to ignite flammable fluids or vapors must be located or shielded so that leakage from any system carrying flammable fluids or vapors will not result in a fire caused by impingement of the fluids or vapors on any part of the exhaust system including shields for the exhaust system.  
(c) Each exhaust system must be separated by fireproof shields from adjacent flammable parts of the airplane that are outside of the engine and auxiliary power unit compartments.  
(d) No exhaust gases may discharge dangerously near any fuel or oil system drain.  
(e) No exhaust gases may be discharged where they will cause a glare.